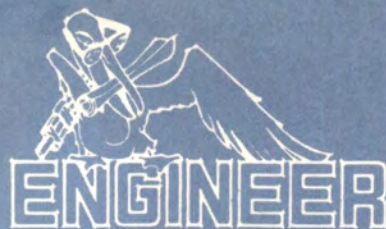




FEBRUARY, 1983
LOUISIANA



NATIONAL ENGINEERS WEEK

**ENGINEERS:
TURNING IDEAS
INTO REALITY**

FEBRUARY 20-26, 1983

Coal



...burning brightly as a future energy source.

The importance of electricity to Americans is an accepted fact. Today, electricity represents 25% of all the energy used in the United States. And by the year 2000, it will represent almost 50% of all energy used. Clearly, electricity will become increasingly important in the years to come, and clearly we should not rely on a single source of fuel to provide it. That's why your investor-owned utility companies are sponsoring research and development programs to find better ways to generate electricity.

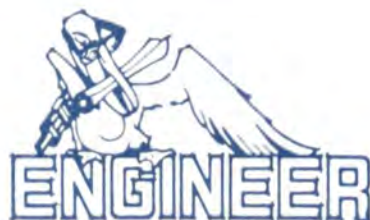
An important factor in any solution would be the use of coal. Unlike our oil and gas reserves, coal is in plentiful supply. In fact, many geologists say that at the present rate of consumption there is enough coal to last our country 500 years. Even though all energy costs are going up, environmentally clean nuclear power combined with coal will be the most reliable and economic means of providing electricity for many decades into the future. And your investor-owned electric utility companies think that's important in order to insure you of dependable electric service at a reasonable cost.

LOUISIANA'S INVESTOR-OWNED ELECTRIC COMPANIES -INVESTING IN YOUR ENERGY FUTURE

Central Louisiana Electric Company Gulf States Utilities Company Louisiana Power & Light Company New Orleans Public Service Inc. Southwestern Electric Power Company

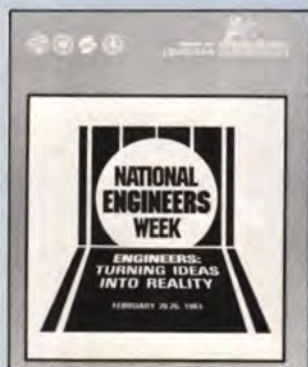
FEBRUARY, 1983

LOUISIANA



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ABOUT THE COVER

Engineers Week will be marked throughout the country February 20-26, using the theme "Engineers: Ideas Into Reality." See story on page 8.

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LES Enters The Computer Age



Member of the LES staff, Carolyn Lofton, operating the LES computer.

In the summer of 1981, the idea of computerizing the LES State Office was conceived. The volume of paperwork required to support the expanding membership was steadily increasing. The majority of this paperwork was handled by the Society staff; however, separate membership records were maintained by an outside computer service which provided membership rosters and mailing labels for LES state publications. It was because of this "double handling" of member records (which increased the chance for error), the desire for internal control of all record keeping, and the rising cost of the outside agency services that the idea continued to develop.

Discussions among members and the Society staff provided the impetus for an informal demonstration of a micro-computer's capabilities to the staff at the Annual Training Conference in Alexandria in September, 1981. This demonstration generated further interest and an Ad Hoc committee was appointed by the Board of Direction to study and make recommendations regarding the purchase of an in-house computer for the LES state office.

The committee prepared a comprehensive report which was presented to the Board for action in December, 1981. The report addressed the primary functions that the computer system must handle and the benefits and savings to be derived from the purchase of a system. Various hardware and software options were investigated by the committee to assure the Board that the purchases that were recommended were optimum. A present worth analysis was performed to compare the anticipated future cost reductions with the purchase and maintenance

costs of the computer system. The analysis was based on a seven-year system life. The break even point was calculated to occur during the third year of operation. After agreement was reached between the State office, the chapters, and the practice divisions to share the expense of purchasing the computer system, the Board voted to implement the committee plan.

The hardware purchased includes an Intertec Data System Model 20 Video Processing Unit with 64k bytes of dynamic internal Random Access Memory, 350k bytes of floppy disk storage capacity are provided by dual drives, a Z80A Central Processing Unit, and integral twelve-inch video display and a standard keyboard. Ten megabytes of disk storage capacity are provided by a Compustar Hard Disk Storage System. A Texas Instruments Model 840 pseudo letter quality, dot matrix printer with tractor and friction feed and enhanced printing capabilities completes the system. The system was assembled by and purchased from General Computers, Incorporated of Scott, Louisiana. This company provides maintenance for the system.

It was discovered after the system was installed that the disk operating system (DOS) was not able to manipulate files larger than one megabyte. The DOS was replaced with an upgraded version that provided this ability and the system operated smoothly.

A series of complex interrelated programs was custom tailored for LES by Technical Software Incorporated of Metairie, Louisiana. These "user friendly" programs were designed to be menu driven for easy use. Minimal operator training was required.

The information on all LES member is contained in one large data base file. Pertinent data about each individual is stored in three 96 character records. The information stored includes that which is provided on the membership application form. Manipulation and control of the data base is accomplished through several specialized programs which are accessed from the main menu.

Maintenance of the data base is provided by three programs that perform the basic functions required to keep the membership information current. These programs allow for the addition of new members, modification of data on an existing member and deletion of dropped members.

Mailing labels with up-to-date member addresses can be provided for use by the state office as well as the chapters and the practice divisions. These labels can be sorted in zip code order by chapter and by practice division. Labels can also be produced for the entire membership or for voting members only. Membership rosters can be produced in alphabetical order by these same parameters. Instant access of an individual file is possible by entering the member's name or membership number.

Annual dues are automatically calculated for LES members and for those members who also belong to NSPE. The dues are based on the member grade of the individual. Dues statements on membership cards are produced on the system printer. Dues payments are entered in the data base so that follow-up dues notices are sent to only those members who are delinquent in their payment. Associate members under 30 are automatically transferred to associate members 30 and over when appropriate. An alphabetical listing of delinquent members is produced for each chapter.

In addition to several system utility programs, a program designed to allow full backup of all files was provided to guard against loss of data due to mechanical or electrical failure. Access to the system is password protected.

Commercially available word processing and financial programs were also purchased. These programs will be incorporated into the system in the near future.

The purchase of the computer system is a prime example of the desire of the LES to offer better service to the general membership. The Society made a wise investment!

Presidential Privilege

This is a joint report by your National Directors, E. E. "Buddy" Moncla, P.E., and myself, on the 1983 NSPE Winter Meeting.

The meeting was held during the week of January 9-15, 1983, at the DuPont Plaza Hotel in San Juan, Puerto Rico, and was hosted by the Puerto Rico Society of Professional Engineers. As usual, the meeting was packed with activities for the members of the National Society of Professional Engineers and their spouses. Well-planned agendas for meetings of members, officers, board of directors, practice divisions, committees, state presidents-elect, ladies' auxiliaries, spouses and seminars were arranged months before the meeting. The meeting was well attended by members from all over the U.S.

In addition to Buddy and me, the following LES members attended: John Bergeron, Bob Blanche, Leta Bueto, Art DeFraites, Jr., Jerry Freeman, Dudley Hixson, Bill Miller, Art DeFraites, Sr., Waldemar Nelson, Frank Dalia, and Roger Seals, and most of us were joined by our spouses. These members are to be congratulated for the excellent job they did in representing the LES on the national level.

The meeting, under the direction of NSPE President Marv Specter, was a huge success. It is always evident at these conventions that the state society members share problems of the engineering profession on a nationwide basis. The conventions give us the opportunity to discuss common problems, exchange ideas for solving them, and take action through the National Society for a common and unified voice informing the nation's citizens of the engineering profession's strong desire to improve the health and welfare of our fellow man.

On January 10 and 11, Dudley Hixson attended two full days of meetings for the state presidents-elect. These meetings are designed to inform incoming state presidents of the organization and function of the NSPE and its relationship to the state societies. They are extremely helpful.

The Board of Directors of the NSPE met January 13 through 15. There are over 80,000 members of the NSPE represented by this 100-member board. The board consists of 17 officers and 83 national directors. Of the 17 officers, six are regional vice-presidents. Louisiana is part of the Southwestern Region, along with Texas, Arkansas, Oklahoma,



Lamon L. Moody, Jr., P.E.
LES President

Colorado, New Mexico and Wyoming. Chuck Samson of Texas is currently the vice-president of the Southwestern Region. Each of the five Practice Divisions is headed a vice president.

Our own Art DeFraites is the immediate past vice-president of NSPE/PEPP. There are 54 member-state societies including each state and the District of Columbia, Guam, Panama Canal and Puerto Rico. Each state society has one national director for each 1,500 NSPE members, or fraction thereof. As of December 31, 1982, the LES had 1,618 NSPE members out of a membership of approximately 3,700, and therefore has two national directors. Texas is the largest state society with 7,281 NSPE members and five national directors.

By comparison, the LES has a 25 member Board of Direction including four officers, nine chapter presidents (including the newly established North Lake Chapter), five practice division chairmen, five state directors and two national directors. The NSPE Headquarters in Washington, D. C. has a staff of approximately 70, and the LES has a staff of three (not including Doc Spears who is on a part-time consulting basis for the remainder of this Society year).

Space does not permit us to report on all of the actions taken by the NSPE Board of Directors, and we will therefore report on a few of them. Actions by the Board and articles of current interest are reported in the two excellent NSPE publications: the *Professional Engineer Magazine* and the *Engineering Times Magazine*.

The Headquarters Building Committee is making good progress. The site for

the new building is 1414 King Street in Alexandria, Virginia and the purchase has been completed. Preliminary plans have been completed for a six-story building consisting of approximately 60,000 square feet. NSPE will occupy approximately one half of the floor space, and will rent the remainder. Total budget cost is approximately \$7,500,000 for land and improvements. The schedule calls for bids for the building to be accepted in the late spring of 1983, with construction being completed in December of 1984.

A new report of the Environmental Policy Task Force was accepted. This policy states that the NSPE recommends that state and federal governments create economic incentives for private industry to provide treatment for hazardous wastes and to recover resources from waste materials. Comprehensive regional treatment and recycling facilities should be included under the options eligible for such incentives. Consideration should be given to mechanisms which expedite siting of these facilities. The policy recommends that many actions be legislated by Congress and implemented by the U.S. Environmental Protection Agency.

A resolution was accepted relative to developing a plan of action by the NSPE to improve the nation's infrastructure acknowledging that public funding policies have not supported the physical upkeep of the nation's vast investment in public works, and therefore, the condition of the nation's infrastructure is a critical public concern.

A policy statement was passed by the Board relative to the National System of Interstate and Defense highways, stipulating that the NSPE supports protection of our nation's highway investment and a greater emphasis on road resurfacing, restoration, rehabilitation and reconstruction to preserve the system, and further stipulating that the NSPE will oppose increased national standard for truck weight, length and width until their impact on future highway costs and safety has been assessed and reflected in the highway user fees and appropriate safety regulations.

The Board passed an action that provides for the NSPE to accept a leadership role in the American Association of Engineering Societies (AAES) for the calendar year of 1983 only. This action was based on two major factors: (1) The

Continued on page 17

LES Spring Meeting - April 7 - 9, 1983

Sheraton Chateau Charles - Lake Charles

The 1983 convention is sponsored by the Lake Charles Chapter.

MAKE PLANS TO ATTEND - USE THE HOTEL RESERVATION AND REGISTRATION COUPONS ATTACHED
(Block of rooms reserved until March 26, 1983).

PROGRAM

THURSDAY, APRIL 7, 1983

12:00 Noon - 5:00 p.m.

12:00 Noon

2:00 p.m.

7:00 p.m.

FRIDAY, APRIL 8, 1983

8:00 a.m. - 12:00 Noon

8:30 a.m.

10:30 a.m. - 12:00 Noon

10:30 a.m. - 2:00 p.m.

12:00 Noon

1:30 p.m.

4:00 p.m. - 5:00 p.m.

4:30 p.m. - 5:30 p.m.

5:00 p.m.

6:00 p.m. - 6:30 p.m.

6:30 p.m. - 7:30 p.m.

7:30 p.m.

SATURDAY, APRIL 9, 1983

7:30 a.m.

8:30 a.m. - 9:30 a.m.

9:30 a.m.

REGISTRATION (Lobby)

Golf Tournament, Lake Charles
Country Club

Tennis Tournament, Lake Charles
Country Club

Early Bird Cocktails & Dinner

REGISTRATION (Lobby)

Presentation of Student Papers

Council of Deans Meeting

Committee Meetings

Lunch on your own

Practice Division Meetings

LES Nominating Committee

LES/Political Action Committee

LEF Meeting

Registration for Banquet

Cocktails (cash bar)

Awards Banquet

Breakfast (Ladies & Men)

LES General Membership Meeting

LES Board of Direction Meeting

LADIES PROGRAM

THURSDAY, APRIL 7, 1983

12:00 Noon

12:00 Noon

2:00 p.m.

7:00 p.m.

FRIDAY, APRIL 8, 1983

8:30 a.m.

9:30 a.m. - 2:00 p.m.

6:30 p.m. - 7:30 p.m.

7:30 p.m.

SATURDAY, APRIL 9, 1983

7:30 a.m.

8:30 a.m.

9:30 a.m.

Hospitality room open

Golf Tournament

Tennis Tournament

Early Bird Cocktails & Dinner

Hospitality room open

Tour of Cottage Shops

Lunch at the China Garden Restaurant

Cocktails & Dinner

Awards Banquet

Breakfast

Hospitality room open

Mini-workshops

REGISTRATION COUPON - LES SPRING MEETING
Sheraton Chateau Charles - Lake Charles

CLIP & MAIL TO: Name _____ Spouse's Name _____

Address: _____

City _____ Zip _____

P.O. Box 2683
 Lake Charles,
 Louisiana
 70602

		No. Tickets	Amount
Registration (Member)	\$12.00	_____	_____
Registration (Spouse)	\$3.00	_____	_____
Early Bird Dinner, Thursday	\$12.00	_____	_____
Awards Banquet, Friday	\$16.00	_____	_____
Breakfast, Saturday	\$7.00	_____	_____
Ladies Tour, Friday	\$8.00	_____	_____
Golf, Thursday; Green Fee, 1/2 Cart, Prizes	\$20.00	_____	_____
Tennis, Thursday	\$5.00	_____	_____

☐ Payment Enclosed ☐ Will Pay at Desk

TOTAL _____

MAKE CHECKS PAYABLE TO LES

PLEASE PREREGISTER

HOTEL RESERVATION CARD
LES SPRING MEETING - LAKE CHARLES

CLIP & MAIL TO: Name of Group: **LOUISIANA ENGINEERING SOCIETY**

Dates: APRIL 7 - 9, 1983

Sheraton Chateau
 Charles
 P. O. Box 1293
 Lake Charles,
 Louisiana
 70602

Last Name: _____ First: _____ Middle: _____

Company Name: _____ Company Phone No. _____

Home Address: _____ Home Phone No.: _____

City: _____ State: _____ Zip: _____

Names(s) of Guest(s)

Sharing Accommodations Last: _____ First: _____ Middle: _____

Please check type of room requested. Rates are subject to Parish and State Tax.

RESERVATIONS MUST BE RECEIVED BY CUT-OFF DATE: March 26, 1983

☐ SINGLE(S)	1 PERSON	\$44.75
☐ DOUBLE(S)	2 PERSONS 1 BED	\$50.75
☐ DOUBLE(S)	2 PERSONS 2 BEDS	\$50.75
☐ TRIPLE	3 PERSONS 2 BEDS	\$56.75
☐ QUAD	4 PERSONS 2 BEDS	\$62.75

FOR SUITE ACCOMMODATIONS, PLEASE CONTACT THE HOTEL: (318) 882-6130

Your reservation will be held until 6:00 p.m. unless guaranteed one night's stay.

☐ Hold until 6:00 p.m.

☐ Guaranteed by the following:

Check Enclosed \$ _____

American Express, MasterCard, Visa # _____

State and Nation Celebrate Engineers Week

The National Society of Professional Engineers, with a membership of over 80,000 professional engineers from all disciplines of the profession, began sponsoring National Engineers' Week in February, 1951. The purpose of the week is to familiarize the public with the work of engineers and to honor outstanding members of the profession. The week of George Washington's birthday is traditionally observed as National Engineers' Week because our first president was himself a land surveyor and a designer of roads, fortifications, and other structures. He also had the educational background of a civil engineer in the 18th century.

In 33 years of NSPE sponsorship, the annual observance has grown from a few scattered proclamations, dinners, and speeches to elaborate programs and week-long activities in urban and rural areas throughout every state and territory of the Union. The activities involve thousands of professional engineers in industry, government, construction, private practice, and education. During the week, thousands of students in junior and senior high schools and colleges are introduced to many facets of the engineering profession, scholarships are awarded to deserving and needy youngsters, local newspapers publish special sections calling attention to challenging careers in engineering, and radio and television panels discuss outstanding engineering achievements and explain what it takes to become a professional engineer.

In 1983, National Engineers' Week will be celebrated from February 20-26. The theme for the week is "Engineers: Turning Ideas into Reality." It is intended to highlight the image of the engineer as an innovator.

You may ask what is the significance of the theme: "Engineers: Turning Ideas Into Reality." What do weather radar, the space shuttle and an artificial kidney have in common? They are all ideas that became reality through engineering. Too often people think of engineers only as functional and practical, that they merely apply what others have created or discovered. They do not realize the creativity involved except possibly when it comes to major feats such as the space shuttle. But projects that receive extensive media attention are only part of the story.

Touch the thermostat and the heat goes on. Turn a knob and the television goes on. Lift the telephone receiver and you can reach almost anywhere in the

world. Many of the conveniences we use everyday are the results of engineering. But many of these everyday wonders are taken for granted. We do not think about the engineering that made them possible. During National Engineers' Week, the National Society of Professional Engineers and the Louisiana Engineering Society hopes everyone will pause to salute our nation's engineers. They are "Turning Ideas Into Reality."

Here are some short items, conveying facts about the engineering profession that we hope will cause you to pause a moment and salute the engineering profession.

LES became affiliated with NSPE in 1957, and LES began celebrating Engineers' Week at its inception by NSPE in 1951.

The Louisiana Engineering Society estimates some 525,000 persons are legally licensed by state registration laws, designed to protect the public from fraudulent engineering practitioners, established minimum standards of competence and ethical conduct.

National Engineers' Week, sponsored by NSPE and the Louisiana Engineering Society, was first observed in 1951. It is celebrated annually during the week of George Washington's birthday, in honor of the first president, who was a noted military engineer and land surveyor.

The Nation's first engineering school was established June 9, 1778, by General George Washington during the Continental Army's encampment at Valley Forge, according to researchers of the National Society of Professional Engineers. In 1802, the school was moved to West Point, where it became the foundation for the U.S. Military Academy, known as the first technical school in America. The U.S. Army Engineer School is now headquartered at Ft. Belvoir, Virginia, near Washington, D.C.

Pierre Charles L'Enfant, a French engineer who volunteered his services to the American Revolutionary Army, was the designer and planner of Washington, D.C. According to researchers of NSPE, President George Washington worked closely with L'Enfant to make the nation's capital one of the most beautiful cities in the world.

NSPE reports that more than 244 institutions of higher learning maintain engineering degree programs accredited by the Accreditation Board for Engineering and Technology, Inc. Seven of the 244 institutions are located in Louisiana.

LSU, Louisiana Tech, University of Southwestern Louisiana, Southern Tulane, UNO, and McNeese University.

The Louisiana Engineering Society is the oldest state organization of its kind in the nation. It was conceived in the fall of 1897 by J. F. Colman, who was then the principal engineer for the city of New Orleans.

The Louisiana Engineering Society is the only engineering society in the state that offers membership to engineers in all disciplines, chemical, civil, electrical, mechanical, etc., including employed and employer engineers, in the five principal engineering practice divisions of construction, education, government, industry, and private practice.

The LOUISIANA ENGINEER, the official journal of the Louisiana Engineering Society and the State Board of Registration for Professional Engineers and Land Surveyors, has been in continuous publication since 1915.

The initial work toward securing passage of a law to regulate the practice of engineering was begun as early as 1896 by LES. Our founding fathers were much concerned about engineering incompetency and wished to protect the public from the activities of "dabbers and quacks who had only to hang out a shingle in order to qualify for business." In 1900, bills were introduced in subsequent sessions of the legislature, but it was not until 1908 that a law was passed. Though we had been the first state to introduce a bill for registration of engineers, ours was the second law of its kind in the nation. Wyoming passed the first in 1907, and it was not until 1917 that Florida became the third state to regulate the practice of engineering.

It is estimated that some 1,400,000 men and women are practicing the profession of engineering in the United States. Over 15,000 of these persons are registered by the State of Louisiana.

The remarks made by President John F. Kennedy during Engineers' Week in 1962 appear appropriate for the week in 1983.

"We would not be able to meet the challenges of the modern world were it not for the trained engineers who develop and build the products and systems that contribute to the welfare, safety and advancement of all Americans. Our engineering capabilities are crucial, not only to the progress of the United States but to helping others achieve their hope for a better and fuller life in freedom."

President/Governor Proclaim Engineers Week

State of  Louisiana

David C. Treen
Governor

Proclamation

WHEREAS, National Engineers Week will be celebrated the week February 20-26, 1983; and

WHEREAS, Engineers Week has been observed annually since 1951 during the week of George Washington's traditional birthday, in honor of the first President who was a noted military engineer and land surveyor; and

WHEREAS, Engineers throughout Louisiana will conduct special activities emphasizing the 1983 theme: "Engineers: Turning Ideas Into Reality; and

WHEREAS, The trained engineers who develop and build the products and systems that contribute to the welfare, safety, and advancement of all Americans are in the forefront to help us meet the challenge of the modern world; and

WHEREAS, Weather radar, the space shuttle, the artificial kidney, and hundreds of other ideas have become reality through engineering; and

NOW, THEREFORE, I, DAVID C. TREEN, Governor of the State of Louisiana, do hereby proclaim the week of February 20-26, 1983, as

ENGINEERS WEEK

in Louisiana and urge all our citizens to honor the thousands of engineers working and living in our great state.

In Witness Whereof, I have hereunto set my hand officially and caused to be affixed the Great Seal of the State of Louisiana, at the Capitol, in the City of Baton Rouge, on this the 7th day of January, A.D., 1983.

David C. Treen
Governor of Louisiana

Attest By
The Governor

Jim Bram
Secretary of State

THE WHITE HOUSE
WASHINGTON

NATIONAL ENGINEERS WEEK
February 20-26, 1983

The role of the engineer in the history of the United States reminds us of how closely our national progress has been linked to technology. Our success in taking advantage of new knowledge arises from America's broad educational opportunities, a free enterprise system that rewards innovation, and a society in which all people have been able to share in the benefits of industrial advances.

But the challenges that our nation faces today remind us that the importance and opportunities of technology are being increasingly recognized in many societies. In the balance of this century, we will be looking more than ever to engineers to help U.S. industries compete effectively throughout the world and to transform advances in science and technology into products and services for a bright future.

This week of events celebrating engineering is a good time to remind ourselves of our shared responsibilities for ensuring that the institutions that underlie the engineering profession remain strong. As responsible citizens we can't settle for anything less than excellence in our educational institutions, and we must provide the kind of personal, community, and professional support that makes that excellence possible.

On behalf of the American people, I salute the contributions of the American engineering community to national progress. On this National Engineering Week, I extend my congratulations and best wishes for an equally productive future.

Ronald Reagan



Governor Dave Treen
presenting the 1983
Engineers Week
Proclamation to
LES President

Lamon L. Moody, Jr., P.E.

Business Health Survey Results Announced

The American Consulting Engineers Council has conducted its year-end business health survey of its membership and the results of the 1,774 responses are as follows:

1. How would you describe your firm's business in 1982? 35 Good
36 Average 29 Poor (%)
2. Compared to 1981, did your staff 421 (24%) increase; 626 (35%) remain the same; 717 (41%) decrease?
3. What is your current backlog expressed in number of months? 4
4. What client type was the major source of your firm's business in 1982 and what do you expect in 1983? (Check one response only for each year.)

1981	1982(%)	1983(%)	
19	18	18	Industrial (private)
30	29	30	Commercial (private)
39	8	8	State government
39	30	29	Local government
5	7	7	Federal government
7	8	8	Other

5. What type of project provided most of your firm's work in 1982 and what type do you expect to be in greatest demand in 1983? (Check one response only for each year).

1982(%)	1983(%)		1982	1983	(Categories continue)
10	11	Water supply/resources	13	14	Industrial facilities
16	13	Wastewater facilities	19	17	Commercial/office
8	7	Public buildings	3	3	Educational facilities
13	14	Transportation	12	13	Other
6	7	Housing			

6. How significant were the following problems to your firm in 1982? How significant will they be in 1983? (Please rate the significance of each problem area on a scale of 0 to 10, with 10 representing the highest significance).

1981	1982	1983	
5.3	4.9	4.8	Excessive government regulation
7.8	7.5	6.6	Inflation and high interest rates
6.4	6.7	6.8	Profitability
4.8	5.4	5.7	Competitive bidding
4.3	3.2	3.2	Lack of qualified personnel
3.2	3.5	3.6	Government competition
4.2	3.8	3.9	Professional liability
6.8	7.7	7.7	Other (specify) "Lack of work" was most frequent

7. Do you anticipate your firm's business in 1983 will be:
666 (38%) better; 789 (45%) about the same; 311 (18%) worse compared to 1982?
8. What is your firm's principal field of practice? (Check one) %
40 General Civil 14 Structural
6 Electrical 5 Geotechnical
6 Mechanical 8 Architectural/Engineering
11 M & E 10 Other
9. In what state is your firm located?
10. Current number of full-time employees. Check one category: 1-5 460 (25%); 6-10 313 (18%); 11-25 448 (25%); 26-100 406 (23%); 101 or more 147 (8%).
11. What is your position in the firm? (Check one.)
1199 Chief executive officer or managing partner; ____ Principal or officer in charge of branch or subsidiary; ____ Other.

Delta Transload Christens HH50 on Schedule

On schedule and after a period of little more than three months from construction start-up Delta Transload, Inc. christened its new "instant port" midstream transfer rig the HH50 on the lower Mississippi at Destrehan in mid-September.

Extending the generic concept of midstream transfer the new rig HH50, has been engineered and constructed for Delta Transload by a team from the Marine Energy Division of Amhoist (American Hoist and Derrick).

On the basis of early data specification, the new HH50 was detailed in IB August 1982, page 23. It briefly comprises a gantry crane equipped with a 50yd grab bucket mounted astride a catamaran-type pontoon.

In terms of overall dimension the unit is 260ft long, 125ft wide, and has a height of some 150ft.

The catamaran is said to offer two particular features: improved stability of the rig during transfer operations and the possibility of covering the barge slip between the two catamaran pontoons to effect maximum protection for moisture-sensitive products thus forming an "instant port".

In operation, barges will move into the slip and will be hauled beneath the gantry by special winches to facilitate the range of moves possible, that is, ship to barge, barge to ship, barge to shore and vice versa.

The gantry itself has a working outreach of 110ft, hoisting speed of 175ft/min, racking speed of 550ft/min and offers a guaranteed production rate of 2000tph free digging. Connected to the shore by underwater cable, the rig's main functions are electrically driven.

In achieving such a high output, the gantry is equipped with a 50yd bucket designed by Fred Vosloh of Design Consult and fabricated by Erie-Stray (this in correction of an earlier article).

which stated that the builder had also designed the unit), and the unit is believed to be the largest of its type in the world.

Operational procedure with the machine has been described earlier and the HH50 will work initially in grain bi-products notably to ADM's account for operation in products classified as grains offering a blending system which incorporates the additional use of a support barge-mounted crane also engineered and constructed by Amhoist, DELTA RAMAT, which may transfer material for blending into a special reception hopper, in turn feeding proportioned material into the main flow of product.

Material in transfer from barge to ship is elevated by one of two vertical chain elevators at the rear support legs of the gantry to a system of outreach conveyors in a telescopic loading spout.

While ADM has supplied the base load for the HH50, the unit offers sufficient additional capacity to accommodate further grains traffic. Delta Services also had coal transshipment in mind when forming its Delta Transload subsidiary in 1981.

Indeed, President of Delta Services Industries Leon H. Toups makes no secret of the fact that the level of interest in the HH50 so far has prompted the company, with Amhoist, to review certain opportunities for the development and operation of similar units world-wide.

The christening ceremony itself then took place upon a river cruise boat overlooking the new rig and in the presence of some 300 guests including Amhoist Chief Executive Officer Robert P. Fox. (Fox recently added the role of Chairman to his corporate titles).

Delta Transload general manager John W. Armbruster appropriately paid tribute to the entire team of experts responsible for bringing the project to fruition so swiftly and effectively.

*From: International Bulk Journal, October, 1982:
London*

Smaller Engineering Firms Are More Insurance Conscious

WASHINGTON, D.C.

More consulting engineering firms than ever feel they need liability insurance in today's lawsuit-prone society, according to the 1982 American Consulting Engineers Council (ACEC) professional liability survey.

Some 10% of the 753 ACEC firms responding were uninsured in 1982 compared to 13% in 1981.

"Small firms particularly continue to have problems in affording adequate liability insurance coverage as the survey's deductible and coverage limits show," said ACEC President Russell L. Smith, Jr.

Consulting engineering firms with one to five employees—nearly half of ACEC's membership—reported the largest gain in liability insurance costs among all size categories: 4.2% of gross billings, up from 3% in 1981. The average cost increase for all sizes of firms rose to 2.95% of gross billings from 2.36% last year. Only structural engineering and architect-engineer firms reported lower rates of insurance costs to gross billings.

Three-fourths of small firms had deductibles of \$5,000 or less while about two-thirds of all firms with more than 100 employees had deductibles ranging from \$25,000 to more than \$100,000.

"The key problem is that small firms must maintain as low a deductible as possible to cover smaller claims," Smith said. "They are hard pressed to purchase more than half a million dollars in protection. In today's litigious society, this can be dangerous."

A-E Size Standards Imminent

New proposed rules governing A-E size standards will be published late this month or early in February, according to the Small Business Administration.

Speaking at ACEC's January First Friday Breakfast, SBA Associate Administrator Robert McDermott outlined what is expected to be SBA's latest approach to setting A-E size standards.

SBA intends to develop separate standards for:

- construction-related A-E services
- A-E services pertaining to military, aerospace and related programs and
- marine engineering services.

McDermott, who headed an intra-agency committee to make size standard policy recommendations to SBA Administrator James C. Sanders, termed the new approach as "considerably different from prior rule-making proposals" and told the breakfast group of member firm representatives, "It will probably be more to your liking."

McDermott also described the operation of the recently-enacted Small Business Innovation and Research (SBIR) program, which will receive some \$45 million in FY '82 funding and an estimated \$450 million within four to five years.

According to McDermott, the new program, which will involve required set-asides of research and development funding by ten federal agencies and departments, should stimulate greater small business participation in government-sponsored R&D activities. The program, which will involve the Departments of Agriculture, Defense, Energy, Health and Human Services, Interior and Transportation, along with the Environmental Protection Agency, Nuclear Regulatory Agency, and National Science Foundation, will involve a three-phase funding approach.

The program offers a twofold advantage to consulting engineers as there will be opportunities for direct R&D-related contracts, as well as clues to follow-on work.

The Department of Energy's initial schedule of SBIR solicitations was published on Dec. 15. The HHS schedule is expected to be published on Jan. 20 and others will follow.

For further information, write to SBA Assistant Administrator Don Templeman, Office of Innovation, Research and Technology, Small Business Administration, 1441 L Street, N.W., Washington, D.C. 20416.

From ACEC Newsline—January 1983

Vibro-Compaction. Putting the squeeze on Earth to make it stronger.

When you're faced with weak soil, you need a fast and economical solution. A solution that's a reasonable alternative to costly piling, deep excavation, or soil exchange.

Vibro-Compaction by GKN Keller is the answer. This proven process rearranges and densifies granular soils, and provides protection against soil failure by liquefaction in seismic areas.

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Annual Report to the Governor

The following letter was sent to the Governor:

Dear Governor Treen:

Pursuant to the provisions of Act 568 of 1980, I submit the report of the transactions of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors for the fiscal year 1982. A duly certified audit and financial statement showing the receipts and disbursements for the fiscal year ending June 30, 1983, will be sent to you at a later date.

The Louisiana State Board of Registration for Professional Engineers and Land Surveyors was created by Act 73 of the Legislature of the State of Louisiana at the regular sessions of 1950. The Act delegates to the Board the duty of registering qualified persons as professional engineers and land surveyors, and charges the Board with the responsibility of enforcing the provisions concerning violations.

The members of the Board and the expiration dates of their appointment are as follows:

Fred C. Culpepper, Jr.	09/23/83
A. J. Brouillette	09/14/84
James L. Meyer	08/02/85
Chris Demopulos	07/31/86
James W. Reeves	01/24/87
Edward J. McNamara	07/31/87
Arthur R. Theis	07/29/88
H. L. Henry, Jr.	07/31/88
Verdi Adam	02/07/88
Francis C. Roy	08/24/89

At the annual meeting of the Board, held on January 25, 1983, the following officers were elected:

E. J. McNamara	Chairman
Arthur R. Theis	Vice Chairman
Francis C. Roy	Secretary

Very truly yours,

H. L. Henry, Jr., P.E.
Chairman of the Board, 1982

Members of the Board

Section 37:683 of Act 568 of 1980 specifies areas of professional practice for members of the Board. With reference to that section and in accordance with the bylaws of the Board, the following list is presented:

Private Practice of Engineering:

Chris Demopulos, James L. Meyer and Fred C. Culpepper, Jr.

Engineers in Government Employment:

Verdi Adam and Arthur R. Theis

Engineers Employed in Industry:

Edward J. McNamara and Francis C. Roy

Engineers Employed in Education:

H. L. Henry, Jr. and James W. Reeves

Professional Engineer and Land Surveyor Engaged in Land Surveying:

Chris Demopulos

Professional Land Surveyor:

A. J. Brouillette

Larkin B. Agnew's term on the Board expired in July, 1981. Verdi Adam was appointed as his replacement.



NÔTRE MÉTIER

**Paul L. Landry, P.E., Executive Secretary,
Louisiana State Board of Registration for
Professional Engineers & Land Surveyors.**



ANNUAL REPORT

**Louisiana State Board of Registration For
Professional Engineers and Land Surveyors**

For 1982

Regular meetings of the Board were held in January, March, May, July, September and November.

The tabulation that follows indicates actions taken by the Board on applications for the registration of Professional Engineers and Land Surveyors and for the certification of Engineers-In-Training and Land Surveyors-In-Training.

Professional Engineers

Applications approved	602
Applications disapproved	66
Applications withdrawn	102

Land Surveyors

Applications approved	18
Applications disapproved	35
Applications withdrawn	1

Engineers-In-Training

Applications approved for certification	727
Applications disapproved	120

Land Surveyors-In-Training

Applications approved for certification	22
Applications disapproved	17

The following is a tabulation of the total number of Professional Engineers, Land Surveyors and Professional Engineers (Public Employees), Engineer-in-Training and Land Surveyors-in-Training holding registration and certification as of December 31, 1982:

Professional Engineers	14,370
Land Surveyors	2,980
Engineers-in-Training	3,263
Public Employees	16
Land Surveyors-in-Training	26

Below is a tabulation of the number of Professional Engineers registered in the various branches as of December 31, 1982. (Some persons are registered in more than one branch.)

Agricultural	159
Chemical	1,244
Civil	5,660
Electrical	2,322
Industrial	129
Mechanical	3,872
Metallurgical	36
Mining	37
Petroleum	1,240

A total of 1370 written examinations were administered in 1982. Of these, there were 932 examinations in the fundamentals of engineering, 41 in the fundamentals of land surveying, 327 in the principles and practice of engineering, 25 in the principles and practice of land surveying and 45 in the laws and procedures of land surveying in Louisiana. Engineering examinations were administered at examination centers in Baton Rouge, Lafayette, New Orleans and Ruston in April and November. On the same dates, land surveying examinations were administered in New Orleans.

A hearing was held in New Orleans on November 22, 1982, at the offices of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors to investigate the activities of a registered land surveyor in the preparation of a subdivision plat for the Cypress Bend Subdivision, Rapides Parish, Louisiana. The Board found that the registrant was guilty of gross negligence and misrepresentation in the preparation of said subdivision plat in that he affixed his signature thereto without staking the area in the field or causing it to be staked in the field, as required by Louisiana Revised Statutes 33:5051. The resulting plat contained numerous errors in the stated calls of distances. The conduct of this registered land surveyor caused financial loss to the owners of the Cypress Bend Subdivision in that it was necessary that the entire plat be redone correctly by another registered professional land surveyor. The Board ordered: (1) that the registrant's professional land surveyor's license be suspended for a period of one year, (2) that the registrant's employer be notified of the Board's action, and (3) that this summary of the Board's findings be published in the *Louisiana Engineer*.

BOARD MEETING NOTICE

The Louisiana State Board of Registration for Professional Engineers and Land Surveyors will hold its 1983 regular meetings at 1055 St. Charles Avenue - Suite 415, New Orleans, La. 70130 on the following dates:

1983

Mar. 22	Sept. 27
May 3	Nov. 22
July 26	

Join your Professional Engineering Society

**For more information,
write to:**

Louisiana Engineering Society
P. O. Box 2683
Baton Rouge, LA 70821

This Act, which was Senate Bill No. 710, amended the Registration Law for Professional Engineers and Land Surveyors and became effective on September 10, 1982. Act 461 of 1982 amended LA RS 37:694 (B) and 697 to read as follows:

LA RS 37:694 - APPLICATION AND REGISTRATION OR CERTIFICATION FEES

- (B) (1) The registration or certification fee for professional engineers, professional land surveyors, engineers in training, land surveyors in training, and foreign and domestic corporations shall be established at the discretion of the board, but shall not exceed one hundred¹ dollars and said fee shall accompany the application.
- (2) If the board denies the issuance of a certificate of registration or certification to any applicant, the fee shall be retained by the board. An unsuccessful applicant shall pay the prescribed fee for each subsequent application².

LA RS 37:697 - EXPIRATION AND RENEWALS

Certificates of registration and certification shall expire at a time specified by the board and shall become invalid after that date unless renewed. It shall be the duty of the executive secretary of the board to notify, by letter to his last known address, every person and entity registered or certified under this Chapter of the date of expiration of the certificate and the amount of the fee that shall be required for its renewal; such notice shall be mailed at least one month in advance of the expiration of such certificate. Renewal of registration as a professional engineer, professional land surveyor, or corporation, or certification as an engineer in training or land surveyor in training, may be effected at any time during the two³ months prior to expiration by the payment of a fee not to exceed twenty-five⁴ dollars per year, at the discretion of the board. The failure on the part of any person or entity to renew his certificate, as required above, shall not deprive such person or entity of the right of renewal. The maximum fee for delayed renewal shall be established by the board, provided that said renewal fee shall not exceed three⁵ times the normal renewal fee.

¹ Changed from thirty-five. ² Changed from reexamination. ³ Changed from one. ⁴ Changed from fifteen. ⁵ Changed from two.

Additions to Selection Board Rules

At the Engineers Selection Board meeting held on January 24, the board adopted the recommendations of a study committee that the following be added as Article III of the Louisiana Engineers Selection Board Rules for Selection Procedure:

ARTICLE III: Communications with Applicant Firms

"No member of the Board shall communicate in any manner concerning a project application with any representative of an applicant firm or anyone communicating on behalf of an applicant firm. This restriction shall apply from the time advertisement of a project begins until the opening of the board meeting at which the project application will be considered." This addition will renumber existing Articles III through VII accordingly.

An attorney general's opinion was requested as to the applicability of this rule to the State Administration.

The Selection Board also adopted a recommendation that the tentative date of the Board meeting be published with the advertisement.

The Louisiana Engineers Selection Board will file a "Notice of Intent" with the LOUISIANA REGISTER. Once the "Intent" is published in the REGISTER, 30 days are allowed for comments, etc. before the addition to the Board Rules of Selection Procedure becomes law. The REGISTER is published on the 10th of each month, but it is not known at this time if the "Intent" will appear in the February issue.

EXAMINATION SCHEDULE

	SPRING Apr. 14, 1984 Apr. 20, 1985	FALL Oct. 29, 1983 Oct. 27, 1984
Fundamentals of Engineering Examination (8 hrs.)	X	X
Fundamentals of Land Surveying Examination (8 hrs.)	X	X
Principles and Practice of Engineering (8 hrs.)		
Civil (Including Structural & Sanitary), Mechanical, Chemical, & Electrical	X	X
Agricultural, Industrial, Metallurgical, Mining & Petroleum		X
Principles and Practices of Land Surveying (4 hrs.)	X	X
Laws and Procedures of Land Surveying (4 hrs.)	X	

Apply at least 90 days prior to examination date.

Leta Bueto
Executive Secretary
Louisiana Engineering Society



Forty-Five to Go on LEF's Plan "A"

The Louisiana Engineering Foundation (LEF) Plan "A" is borrowing money from engineers and engineering organizations at no interest to retire a \$65,000 note at 16% interest on the LEF headquarters building at 1213 Nicholson, Baton Rouge. Effort is underway to obtain a new loan at less interest.

All loans will be paid back within five years. The payback will be determined by lot. As of January 17, the following engineers and organizations have subscribed to Plan "A":

Louisiana Society of Professional Engineers in Civil Service, Baton Rouge
 John C. Copes, P.E., Baton Rouge
 Cappel, Tousley, Montgomery & Moses, New Orleans
 Meyer, Meyer, LaCroix & Hixson, Alexandria
 Walk, Haydel & Associates, New Orleans
 Domingue, Szabo & Associates, Lafayette
 Demopulos, Ferguson, Inc., Shreveport
 Paul Landry, P.E., New Orleans
 John J. Guth, P.E., Shreveport
 Consulting Engineers Council of Louisiana, Baton Rouge
 Rayner & McKenzie, Inc., Baton Rouge
 John E. Ritter, P.E., Baton Rouge
 Don Chesson, P.E., Baton Rouge
 Louis J. Capozzoli, P.E., Baton Rouge
 Alex Theriot, P.E., Baton Rouge
 Charles Coyle, P.E., Shreveport
 Lamont L. Moody, Jr., P.E., Baker
 E. J. McNamara, P.E., New Orleans
 Bovay Engineers, Baton Rouge
 Baton Rouge Chapter

Request your support. Send a check for \$1,000 to LEF as a loan; it will be repaid. We will acknowledge with letter indicating agreement for your file. The names of organizations and individuals who support Plan "A" will be engraved on a plaque to hang in LEF headquarters.

New Chapter Formed

St. Tammany, Washington and Tangipahoa parishes, an area just north of Lake Pontchartrain and a part of the New Orleans chapter, has approximately 300 registered engineers, but the percentage of LES membership is very low. In an effort to encourage attendance by members and to attract new members to LES, an ad hoc committee was formed to consider a new chapter in this area. The ad hoc committee, comprised of Frank Scianna, P.E., Isaac E. Boggs, P.E., and Shelby LaSalle, P.E., with Dale Hunn, P.E., serving as adviser, spent many long hours preparing surveys to engineers in this area request-

ing their opinion on participating in activities of a newly-formed chapter.

The surveys were very positive and a petition signed by twenty-one members was presented to the Board of Direction petitioning the Board for authority to establish a chapter to be named North Lake Chapter, composed of St. Tammany, Washington, and Tangipahoa parishes.

The North Lake Chapter, the Society's 9th chapter in the state, was officially recognized by the LES Board of Direction on December 17, 1982, with acceptance of its bylaws.

The Louisiana Engineering Society Constitution and Bylaws states that members whose address of record lies within the boundaries of an established chapter shall be assigned and shall be deemed to belong to the local chapter. The mailing address designated by the member shall be considered as his address of record unless he instructs otherwise. Any member residing in this area and wishing to remain a member of the New Orleans chapter must advise the state office.

Alexandria Chapter Wins 1982 Membership Retention Contest

A membership retention contest was inaugurated in 1980. All the members on board (less students) are computed with the delinquents each year to determine a retention percentage by chapter.

Congratulations to the Alexandria chapter, winner of the 1982 contest with a 98.6% retention. Alexandria also won in 1981 with a 98.5 rate, and Shreveport won the 1980 contest with a 98.3 retention rate. Overall for LES, the 93.6 retention rate in 1982 reflects the times when compared to the 95% rates in 1980 and 1981. LES had 170, 154 and 231 delinquent members in 1980, 1981 and 1982 respectively.

Retention percentages by chapters for 1982 were:

Alexandria chapter	98.6
New Orleans chapter	94.8
Shreveport chapter	94.6
Monroe chapter	93.8
Baton Rouge chapter	93.6
Lake Charles chapter	92.5
Lafayette chapter	91.8
Bayou chapter	88.8

The Alexandria chapter will be recognized and presented an award at the LES Spring meeting, Lake Charles, on April 7, 8, 9, 1983.

1983 Outstanding Engineers of LES

Six outstanding LES engineers will be honored on April 8, in Lake Charles at the annual LES spring meeting:

Roy W. Schubert, P.E., Ruston, recipient of the James M. Todd Technological Accomplishment Award.

Ashton B. Avegno, Jr., P.E., New Orleans, recipient of the F. Hugh Coughlin Award of Merit for Young Engineers.

Waldemar S. Nelson, P.E., New Orleans, recipient of the Andrew M. Lockett Civic Activities Medal.

Richard A. Matula, P.E., Baton Rouge, recipient of the A. B. Paterson Medal for an Engineer in Management.

Duane F. Bruley, P.E., Ruston, recipient of the Charles M. Kerr Public Relations Award.

James W. Reeves, P.E., Lafayette, recipient of the Leo M. Odom Professional Service Award.

The award winners will be featured in the April issue of the *Louisiana Engineer*.

High School for Engineering Professions

One of the main goals of the Baton Rouge Area Chamber of Commerce is to see that a quality public education system is maintained in East Baton Rouge Parish. It was brought to the attention of the Chamber that in Houston a truly remarkable experiment in secondary education has been started, called the High School for Engineering Professions (HSEP). This school within a school was designed to prepare students to enter and to be successful in the most competitive engineering schools in the country.

By any measure this experiment has been an outstanding success. Of the 65 graduates in 1981, all went to college. Three went to the Massachusetts Institute of Technology, three to Carnegie Mellon, four to Military Service Academies, and seven to the University of Texas. All of these students are studying engineering.

Percy A. Pierre and Associates was employed by the Chamber to research the feasibility of establishing a magnet curriculum for high school students wanting to study pre-engineering in preparation for college.

There are three reasons why such a school would be appropriate for East Baton Rouge. First of all, there is no similar program currently available. Second, there is a need in the local community for engineers. Third, a successful engineering program would greatly enhance the reputation and attractiveness of the public school system.

The final report submitted by the consultants indicate that such a curriculum is needed in East Baton Rouge and the area's

Continued on page 16

business and industrial community is willing to support it through aid in teacher training, donation of surplus equipment, student on-the-job training, etc. Any equipment such as drafting tables, lab equipment, computers, desks, chairs, etc. can be donated to the engineering school by calling Carl Gebhart at 926-9011. The East Baton Rouge Parish school system will pick up the equipment and all donations are tax deductible.

If you would like additional information or a copy of the feasibility study, contact Margina Spencer, Baton Rouge Chamber of Commerce, 387-1400.

SSAC Report

The State Society's Administrators Council met in conjunction with the National Society of Professional Engineer's Winter Meeting in San Juan, Puerto Rico, on January 11 and January 12, 1983. As your Executive Director, I was privileged to attend this meeting. The state directors exchanged ideas on advertising, publications, membership growth, membership retention, investments, etc.

The Council was addressed by both the President and President-elect of NSPE, Marvin Specter, P.E., and Louis Bacon, P.E.

Donald Weinert, P.E., Executive Director of NSPE and a representative of CNA Insurance Companies, distributed information packets and brought the Council up to date on the National Mathematics Competition. The competition is for grades seven and eight, and is jointly sponsored by NSPE and the CNA Insurance Companies. Weinert announced

that the NSPE scholarship packets, usually mailed in the summer, will be mailed earlier in the year and that the ROTV Scholarship Applications are being redesigned.

Paul France attended the meeting briefly and brought the Council up to date on the very sophisticated Hewlett Packard computer which is now being installed at the NSPE headquarters. In addition to France's address, Julianne Johnson, NSPE staff coordinator for the membership committee, spoke to the Council regarding membership growth and retention.

Overall, the meeting in San Juan was very beneficial. Louisiana boasted one of the largest delegations ever. Those attending were: National Directors E. E. Moncla, P.E., and Lamont L. Moody, Jr., P.E.; President-Elect T. Dudley Hixson, P.E.; PEE - Roger Seals, P.E., and Frank Dalia, P.E.; PEC - William Miller, P.E., and David Edgar, P.E.; PEI - John J. Bergeron, P.E.; PEPP - Jerrel J. Freeman, P.E., Robert P. Blanche, P.E., Waldeemar S. Nelson, P.E., Arthur A. DeFraites, Jr., P.E., and Arthur A. DeFraites, Sr., P.E.; and your executive director.

Engineers Club of New Orleans

The Engineers Club of New Orleans has relocated the club facilities from 546 Carondelet Street in downtown New Orleans to an upper room located at Kolb's Restaurant at 125 St. Charles Avenue. The Club invites out of town visitors to drop in for lunch while in the city and encourages all current members to make a point to visit the new location.

Construction Planning By CPM

The Third Annual Construction Conference sponsored by the Louisiana Tech Student Chapter of the Associated General Contractors will be March 28, 1983, on the Tech campus, Ruston, Louisiana.

The objective of this year's conference is to introduce general contractors, subcontractors, and other members of the construction industry to the critical path methods (CPM) of project management. Detailed presentations will be made on the mechanics of developing a CPM plan and on how the contractor in the field can utilize that plan to help him run the job. For further information and registration, call Tech Continuing Education, 318/257-3848.

Avis Restructures Car Rental Program

Avis Rent-A-Car has changed its car rental rate structure. In most locations, Avis' new unlimited mileage "We Mean Business" rates have replaced regular time and mileage rates. NSPE members receive a 13% discount on these unlimited mileage rates in the continental U.S. A 10% discount is available to NSPE members in Alaska and Hawaii. At the few locations that still offer the normal time and mileage rate, a 40% discount will still be available to NSPE members in the continental U.S. These rates include a charge for the car rental and a separate charge per mile driven. A 10% discount on weekly rentals in the U.S., and up to 25% off international rentals, is currently available to members.

MUD GOTCHA?

You can avoid delays and save yourself some money by using chemical lime to stabilize clay soils.

Chemical lime is a stabilization agent which first dries the clay and makes it more friable, giving an immediate working surface. Chemical lime, when mixed with fine-grained soil, reacts with the clay to form a natural cement (or cementing agent). When this mixture is compacted, cementation of soil particles occurs which results in increased strength.

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PRESIDENTIAL PRIVILEGE

Continued from page 5

AAES designate the NSPE to be the principal coordinator for the representation of the AAES in Washington, D.C., and (2) The NSPE was already committed to pay dues to the AAES in excess of \$40,000 for the year ending December, 1983, after having withdrawn from membership in the AAES. Also, if all details can be agreed upon between the NSPE and the AAES for the role NSPE will have during 1984 this agreement will be brought before the NSPE Board meeting in July, 1983 for consideration.

A policy relative to immigration was passed by the Board. By a unanimous vote, the Board restated its position against reclassifying engineers as skilled workers, rather than professionals, for any reason whatsoever, including language that has cropped up in immigration legislation before the Federal Congress. The Board also passed a motion requiring the deportation of all foreign engineering students upon graduation for at least two years. This latter policy recognizes that the nation should remain open to well-educated aliens and that job performance would determine employment and promotion more than any other factor.

The Board considered the state of

synthetic fuels development in the U.S. and concluded that government and private sector are currently engaged in a proper and productive relationship via the Synthetic Fuels Corporation. In anticipation of proposed legislation in the 1983 Congress that would alter this initiative, the Board believes NSPE should confirm its support for synfuels development and the corporation.

The Board accepted a recommendation by the Public Relations Committee that the chairman of this committee be appointed for a three-year term, and that consideration be given by the state society members of the NSPE for this same action.

The Board accepted a recommendation by the Membership Committee in conjunction with the current program for recruitment of new members through the "Five for Fifty" campaign, that all new members under age 45 will receive free \$10,000 life insurance.

The NSPE Political Action Committee reported that with the close of the 1982 mid-term elections, NSPE-PAC remained one of the fastest growing political action committees in the U.S. according to the Federal Election Commission. In 1978 NSPE-PAC ranked 685; in 1980

we hit 197 and today among 3,000+ PACs, NSPE-PAC will most likely finish in the top 25 in contributions to candidates. In the 1981/82 election cycle, NSPE-PAC had receipts of \$307,018.91, of which \$289,600.00 was contributed in direct support of 198 candidates in all 50 states.

On Saturday morning, Mrs. Dorothy Kennedy, National Chairman of the NSPE Ladies Auxiliaries, assisted by a delegation of officers of the auxiliaries, gave a report on the 30 year anniversary of the NSPE auxiliaries. The Board gave the auxiliaries a standing ovation for the excellent work they have done on behalf of the NSPE.

The Board reviewed plans for the 1984 celebration of the NSPE's Golden Anniversary and urged all NSPE Members to attend the Annual Meeting on July 9-14, 1984, in Washington, D.C.

If you have any questions or comments on the NSPE Winter Meeting, or the operations of the NSPE, please contact Leta, Buddy or me. The LES Board of Direction will discuss this report and matters relative to the NSPE at our next Board meeting in Monroe on February 18, 1983. All LES members are always welcome to attend our Board meetings.

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**Waldemar S. Nelson, Honored
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Waldemar S. Nelson, Chairman of the Board of Waldemar S. Nelson and Company, a consulting engineering firm based in New Orleans, was recently honored at the 34th Annual Meeting of the Construction Industry Association of New Orleans. A large silver tray was given to him as a visible token of the Honor Award which was made in recognition of his contribution to construction in the New Orleans area. It was also recognized that the firm's activities extend well beyond the city limits into the surrounding area, the United States and even into foreign countries.

Mr. Nelson is a civil, electrical and mechanical engineer registered in thirty-five states. He has been active in the engineering profession, being an honorary member and past president of the Louisiana Engineering Society; a long time member of Construction Industry Association of New Orleans; a past chairman of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors; a past president of the Society of Tulane Engineers; and a founder and past president of the Engineers' Club of New Orleans. He is a past vice-president of the National Society of Professional Engineers; past treasurer of the National Council of Engineering Examiners; a Life Fellow of the American Society of Mechanical Engineers; a Fellow of the American Society of Civil Engineers; a diplomat of the American Academy of Environmental Engineers; and a member of the Institute of Electrical and Electronics Engineers, Society of American Military Engineers,

American Public Works Association and other professional and technical societies.

He was elected to Tau Beta Pi, Pi Tau Sigma and Eta Kappa Nu, honorary engineering fraternities, and received the Distinguished Service Award of the National Council of Engineering Examiners and the Outstanding Engineering Alumnus Award for 1976 from Tulane University. He also received the Louisiana Engineering Society's Charles M. Kerr Public Relations Award, its Leo M. Odom Professional Service Award, and its A. B. Paterson Medal for an Engineer in Management.

Legislative Committee Report

D. Lamar Oliver, III, P.E.

Legislative Committee Chairman

The special session of the Louisiana Legislature closed January 17. Special sessions are not items which the Legislative Committee usually has to contend with; however, this year the governor deemed it necessary to reconvene the legislature to consider some economic items. The Louisiana Engineering Society (LES) was readily able to obtain a copy of the governor's call, which contained some fifty items for consideration.

The most notable subjects to be covered were Unemployment Compensation and Workmen's Compensation. Other items on the call included several proposed exemptions to the public bid laws for the benefit of the Department of Corrections and the possibility of legislation regarding the organization of the executive branch, just to highlight a couple. As a result of our continued use of Gerald and Cindy Simmons as our lobbyists, we were able to obtain copies of the proposed legislation in a very timely manner. This, of course, is an expense to the Society; however, it is well worth the cost.

Our basic position on the Workmen's Compensation and Unemployment Compensation bill was to support LABI in their effort. This approach was agreed to by the LES Board of Direction prior to the last general session of the legislature. Opening day we met with the Louisiana Architects Association (LAA) and the Consulting Engineers Council of Louisiana (CEC/L) to formulate a common position on bills of mutual interest. We also worked with the AGC and other interested lobby groups in developing our position vis-a-vis the bills of mutual concern.

Bills which were given emphasis for a common position, in addition to the Workmen's Compensation and Unemployment Compensation, were those which affected the public bid law exemptions and the proposal for legislation as to the organization of the executive branch. The concerns which LES had over the portion concerning the executive branch stem from past efforts to rearrange the functioning and funding for the State Board of Registration for Professional Engineers and Land Surveyors. No bills were introduced to cause us concern in this area. The Department of Corrections was given an exemption from public bid procedures for 1983 basically to allow them to use modular construction in the prisons. LES was not required to take any adversarial positions or marshal forces for testimony during this special session.

We are preparing for the regular session of the legislature this spring. Again we will use the services of our lobbyists as we have found them to be very helpful and effective in pursuing the legislative program of your Society.

Engineer Selection Board

Observations by K. A. Perret, P.E.

For the past year (1982), it was my privilege to serve as a member of the Louisiana Engineer Selection Board as an elected representative of the Louisiana Engineering Society. I thank you, the professional engineering community of Louisiana, for giving me the opportunity to serve, and I would like to share some of my observations from this experience.

The Engineer Selection Board is composed of six members, including a chairman and a vice chairman who are elected by the board members. Two members of the board are elected representatives of LES, two are elected representatives of the Consulting Engineers Council of Louisiana, Inc., and two are appointed by the Governor. These members, plus a representative of the user agency, vote in the engineer selection process. This board was created by Act 721 of the 1975 Regular Legislative Session and its stated primary objective is "to provide a system for the non-political selection of services rendered by Engineers, licensed to practice in the State of Louisiana, that is impartial, equitable and in the best public interest of the citizens of Louisiana."



The annual Christmas Party for the Baton Rouge Chapter of the Louisiana Engineering Society was held at the home of Mr. and Mrs. Glynn Gautreau, above left. Approximately 200 members and guests attended the party. Among those in attendance were Lamont L. Moody, Jr., P.E., LES President, and Mrs. Moody, above right.

The Board conducts its business under the provisions of the applicable State laws and under the "Rules of Organization" and "Rules for Selection Procedure" which have been adopted by the Board.

It should be noted the Board has selection jurisdiction for all agencies of the State which may require capital outlay

projects with estimated construction costs exceeding \$200,000 for additions to or construction, renovations, or restoration of buildings, plants, and related facilities, where engineering is determined to be the prime professional discipline. These criteria have been interpreted to mean that the selection of consultants for

street and highway projects administered by the Department of Transportation and Development is excluded from the jurisdiction of the Engineer Selection Board.

As you will note from the composition of the board, the administration will usually have three votes on each selection ballot. It is therefore most difficult for any firm other than the one recommended by the user agency to be selected. It is my opinion that the professional engineers on the board have as their primary responsibility the function of "watchdog duty" to assure that the firms applying and being considered for selection are fully qualified and that all requirements of State law and board rules are followed. It is also my opinion that this "watchdog duty" is being faithfully fulfilled by current board members and that the Engineer Selection Board is providing a very useful function both for the engineering profession and for the general public of the State.

Current board membership: Harvey Koch, Chairman (Governor appointed), Richard P. Wright, P.E., Vice Chairman (LES), Charles Trent, Member (Governor appointed), James R. Gore, P.E., Member (CEC L), Edward I. Lanier, P.E., Member (LES), Ronald K. Ferris, P.E., Member (CEC L)

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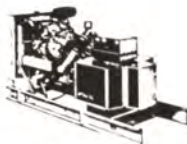
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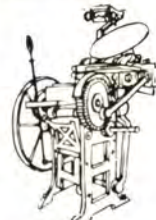
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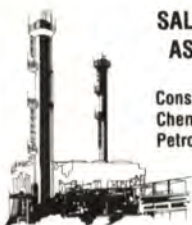
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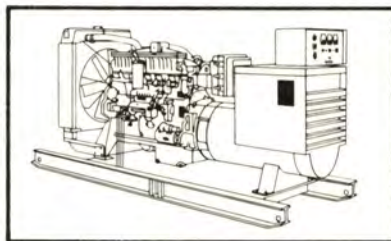
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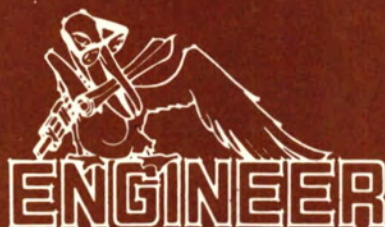
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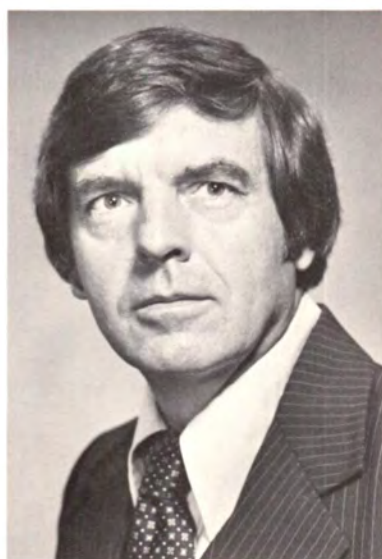


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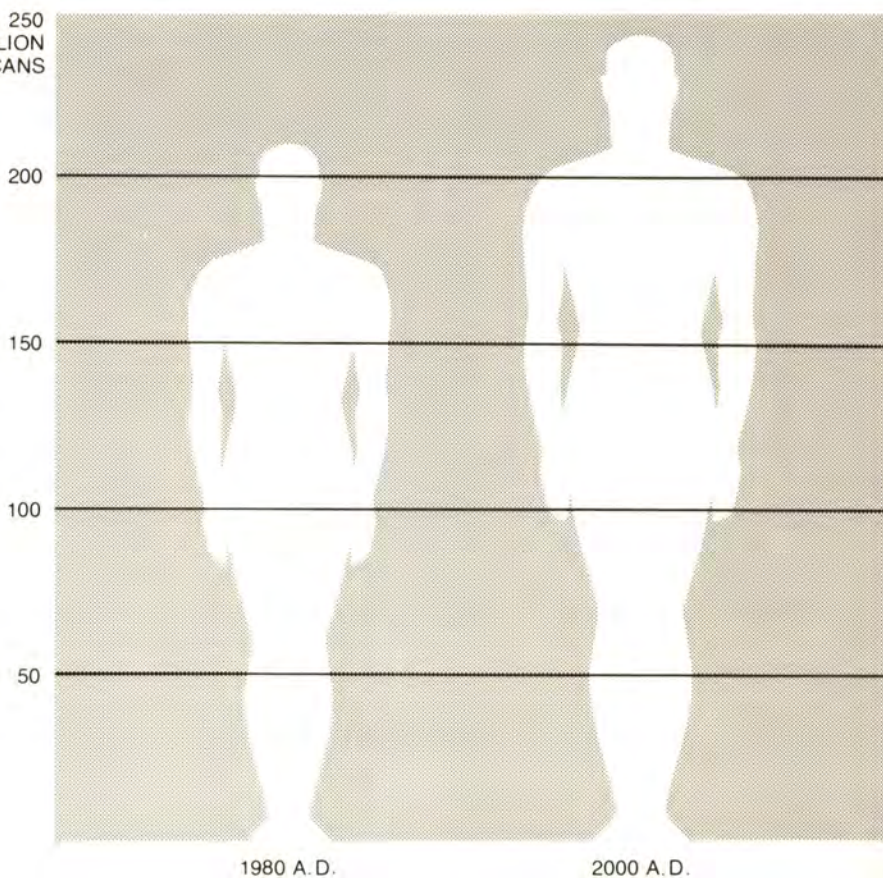
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By the year 2000, there will be 40 million more Americans. That's 40 million more Americans who'll be needing more electric power for more jobs and more housing. Even if we work hard at conserving our energy sources, we'll still need at least twice as much electric power in twenty years as we do now. And if we don't conserve, we'll need three or four times as much. So, we'd better conserve what we have and we'd better make full use of every available energy source. And that includes nuclear power and coal. Uranium and coal are our most abundant raw energy sources and can be easily utilized to generate electricity.

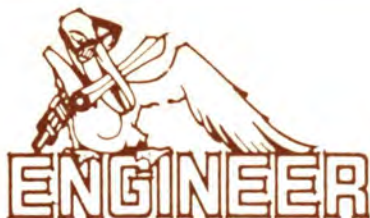
No single source of energy can possibly supply all the electric power we will need. Conservation and a balance of nuclear power and coal will be essential in meeting that need.

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ABOUT THE COVER

The Louisiana Engineering Society honors six outstanding engineers. Their stories begin on page 6.

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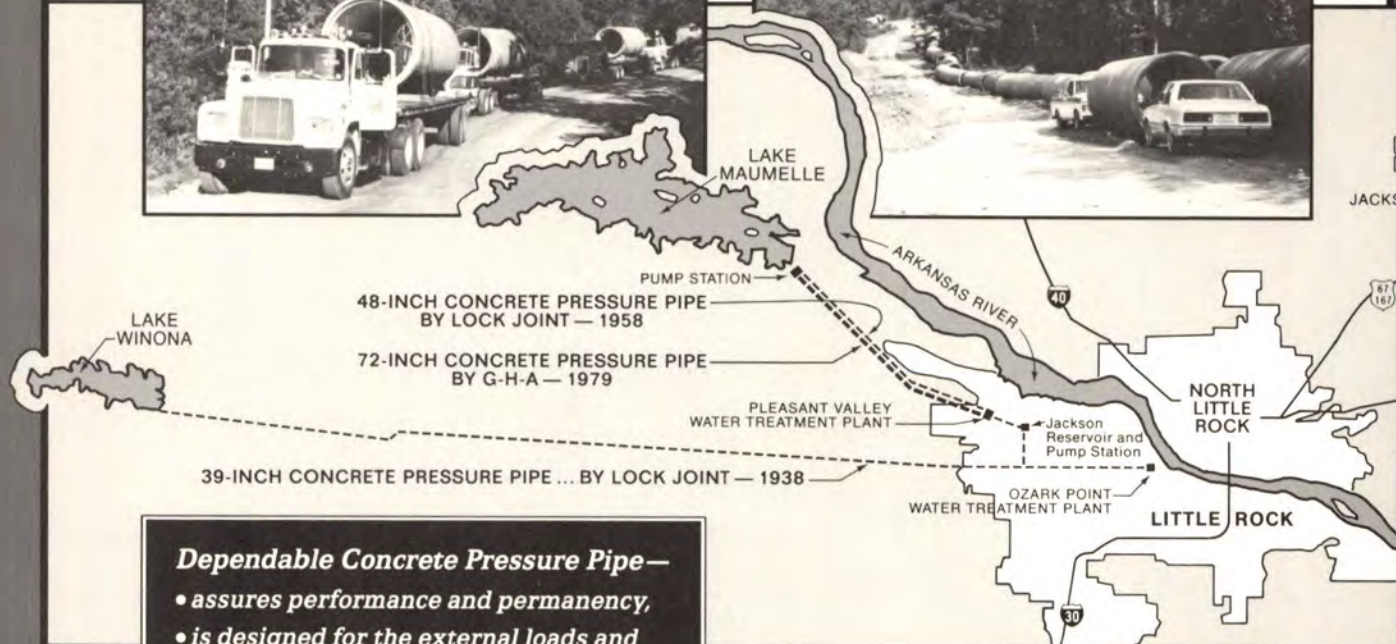
Little Rock builds lifelines for the future with Concrete Pressure Pipe.

Since Little Rock, Arkansas was settled in 1822, its water supply has progressed from collecting rain water in cisterns, through a period of drawing water from wells and directly from the Arkansas River, to the present day dependence on surface water from two reservoirs.

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High Technology

The engineering profession in our state has a new challenge. As Professional Engineers, you recognize and appreciate the value of research and development and its contributions to a better way of life for our fellow man. Our country has led the world in the Industrial Revolution and the Space Age, but records will show that we are losing ground in our leadership to other countries of the world.

In every area of our lives there is room for improvement but I want to remind you of needed improvements and innovations to technology in our state and nation. Can you think of any area in our technology that cannot be improved? Do you agree that a major part of our economic woes is due to the lack of invention and innovation in our industries? As only one small example, we have lost our leadership in the production of automobiles mainly because of the manufacturing innovations and robotics developed by competitive nations.

There is a broad realization that our state and nation are at economic turning points. We must take specific remedial steps designed to spur new technologies, innovations, modernization and industrial expansion.

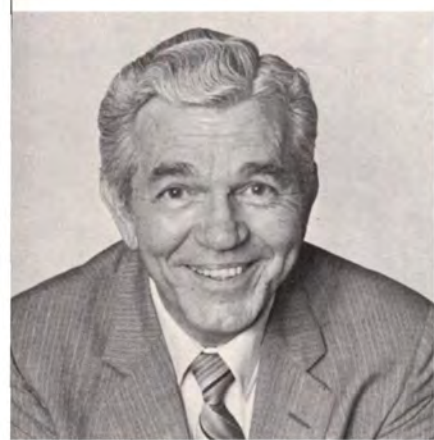
The empirical evidence of national economic stagnation is undisputed. National productivity gains have slowed significantly. From an average gain of 3.2% each year from 1948 - 1965, productivity gains fell to an average growth of 2.3% each year from 1965 - 1972, and only 0.7% each year from 1973 to 1979.

Our share of world trade has fallen significantly. In key industries, including high-technology sectors, our export performance is challenged by the Japanese and Europeans. For example, in telecommunications equipment, our nation's share has been halved since 1962, falling from 28.5% of the market to only 14.5% in 1979.

Elsewhere in this magazine is an article by Harry D. Richardson, P.E., entitled "Small Business Innovation Research (SBIR)" indicating the awareness and concern of our nation's President and Congress about our regression in technologies. On a state level, our Governor has created a High Technology Task Force for Louisiana, and our legislators are acutely aware of the lack of competitiveness in our technologies.

The individual Professional Engineer in Louisiana needs to concern himself with the new High-Technology Age for the benefit of our fellow citizens. We need to improve our industries and assist in bringing in new industry to our state. We must join in the process of industrial innovation which involves three steps: (1) Engineering research to discover new fundamental advances in our understanding; (2) applied science and engineering research which transforms these fundamental advances into ideas with potential commercial applications; and (3) product development, to actually take ideas and transform them into products ready for the commercial market.

The challenge we face today is not "how to build a better mouse trap" but "how to catch more mice."



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LEO M. ODOM AWARD FOR PROFESSIONAL SERVICES

The Leo M. Odom Award, named after its first recipient in 1972, is given for distinguished service to the engineering profession in Louisiana by a registered professional engineer member of the Society who, over a period of long duration, has demonstrated leadership in technical societies and other professional engineering groups.



James W. Reeves, P.E.

Dr. James W. Reeves, P.E., is the Dean of the College of Engineering and a Professor of Civil Engineering at the University of Southwestern Louisiana. He received Bachelor and Master Degrees in Civil Engineering from Louisiana State University and a Doctorate Degree from the University of Arizona. He is a registered professional engineer and land surveyor in Louisiana.

Dr. Reeves began his engineering career after graduating from LSU in 1952 with Chance Vought Aircraft Company in Dallas, Texas. In July of 1953, Dr. Reeves became Project Officer in charge of construction of four half-million-gallon reservoirs and 12" cast-iron water main with the Civil Engineer Corps of the U. S. Navy, Philippine Islands. After his tour in the Philippine Islands, he became Maintenance Officer of the U. S. Naval Air Station, Corpus Christi, Texas. From 1956 until 1959, he served his profession by working in both the public and private sector as a design engineer. Since 1959, Dr. Reeves has distinguished himself as an educator and educational administrator serving as an Assistant Professor of Civil Engineering, Associate

Continued on page 8

ANDREW M. LOCKETT MEDAL FOR CIVIC ACTIVITIES

The Andrew M. Lockett Medal is the Society's civic activities award and was first given in 1951. It is named to honor Andrew M. Lockett, a member of LES from 1900 until his death in 1945.



Waldemar S. Nelson, P.E.

Waldemar S. Nelson, P.E., is founder and chairman of the board of W. S. Nelson & Company, Inc., a New Orleans-based general engineering firm. He is a graduate of the School of Engineering, Tulane University, and is registered as a professional engineer in 35 states. He is a widower and the father of five children.

Mr. Nelson has served as a member of the Board of Commissioners of the New Orleans City Park Improvement Association since November 17, 1968, working on various committees and projects. He served as president of this organization in 1978.

New Orleans City Park is a 1,500-acre green space in the midst of a 1,500,000 urban population providing healthy, outdoor recreation to 3,000,000 public patrons from Orleans and surrounding parishes, other states and foreign countries, plus almost 1,000,000 visitors to the King Tutankhamen exhibit held in the park. The park provides four 18-hole golf courses, 54 tennis courts, 20 baseball diamonds, miles of lagoons and bayous for fishing and boating, acres of picnic area, riding stables, the 25,000-seat Tad Gormley football stadium, the Pan Amer-

Continued on page 8

F. HUGH COUGHLIN YOUNG ENGINEER AWARD

This award is given to an engineer not over 35 years of age who has demonstrated to a high degree capabilities in his chosen field. F. Hugh Coughlin was a member from 1944 until his death in 1979. His interest in, and support of young engineers was very instrumental in the establishing of this award. His name was added to the award in 1975.



Ashton B. Avegno, P.E.

Ashton B. Avegno, Jr., P.E., received a Bachelor Degree in Civil Engineering from Tulane University in 1972 graduating first in a class of 24 civil engineering students and fourth in a class of 10 school of engineering graduates. Mr. Avegno received his Masters Degree from Tulane University in 1977. He is a registered professional engineer in Louisiana, Alabama, Arkansas, Mississippi, Georgia, California, and Florida.

Mr. Avegno's professional career began in June 1972 with the Louisiana Department of Highways as a Construction Supervisor. From August 1972 until December 1972, Mr. Avegno was called to active duty with the U.S. Air Force and the Louisiana Air National Guard. Beginning in January 1973, he worked briefly for Modjeski and Masters, Consulting Engineers, as a design engineer on various bridge and highway projects. From 1973 to 1979, he served as a civil engineer with Waldemar S. Nelson & Company. During the last year of his employment with that firm, he served as Assistant Manager of the Civil Engineering Department and had overall technical supervisory and personnel

Continued on page 8

LOUISIANA ENGINEER/APRIL 19

**CHARLES M. KERR
PUBLIC RELATIONS AWARD**

The Charles M. Kerr Public Relations Award is given to an engineer for distinguished service in the promotion of public relations for the engineering profession in Louisiana. It was first presented in 1965 and was named to pay tribute to Charles M. Kerr, LES president in 1954. Kerr was very active in the business world in promoting his chosen profession, engineering.

**JAMES M. TODD TECHNOLOGICAL
ACCOMPLISHMENT MEDAL**

The Technological Accomplishment Medal is given for the distinguished services by an engineer for technological advancement or discoveries as contributions to the advancement of engineering.



Roy W. Schubert, P.E.

Dr. Roy W. Schubert, P.E., received his Bachelor and Master Degrees in Electrical Engineering from Case Institute of Technology, Cleveland, Ohio, in 1964 and 1966, respectively. In 1971, he completed Phase I of Medical School, and in 1976, received his Doctorate Degree, both at Case Western Reserve University, Cleveland, Ohio. He is a Professor of Biomedical Engineering and Director of Biomedical Microprocessor Resources at Louisiana Tech University and a registered engineer in Louisiana.

Dr. Schubert's professional honors include: the Louisiana Tech Engineering Foundation Outstanding Achievements in Research Award in 1982; the Sigma Xi Certificate of Meritorious Research in 1980; and the Louisiana Tech Engineering Foundation Distinguished Service Award in 1978. He was invited to be chairman and symposium organizer for "Substrate Transport in the Microcirculation" for the 34th Annual Conference of Engineers in Medicine and Biology in September 1981 and in November, 1978, he served as Chairman and organizer for "Simulation and Control of Mass Transport in the Microcirculation" at the 31st

Continued on page 9



Duane F. Bruley, P.E.

Dr. Duane F. Bruley, P.E., is the Head of the Biomedical Engineering Department and Director of the Rehabilitation Engineering Center at Louisiana Tech University and is a registered chemical engineer in South Carolina. He received a Bachelor of Science Degree in Chemical Engineering from the University of Wisconsin in 1956; a Master's Degree in Mechanical Engineering from Stanford University in 1959; and a Doctorate in Chemical Engineering from the University of Tennessee in 1962.

Dr. Bruley's professional experience includes: Union Carbide Nuclear Company; Graduate Teaching Assistant, University of Tennessee; T. E. Wannamaker & Company; Visiting Professor, Princeton University; Teaching and Research, Clemson University; Visiting Professor, Yamagata School of Medicine, Yamagata, Japan; Chemical Engineering Department Head, Tulane University; and Vice President for Academic Affairs and Dean of the Faculty, Rose-Hulman Institute of Technology.

He is a member of the International Society on Oxygen Transport to Tissue; Bio-medical Engineering Society; Ameri-

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**A. B. PATERSON MEDAL FOR
AN ENGINEER IN MANAGEMENT**

The Louisiana Engineering Society has a special award for the engineer who distinguishes himself in management. This is the A. B. Paterson Medal, which was first given in 1965. Albert B. Paterson, an active member of the Society from 1923 until his death in 1952, was an engineer, administrator, executive, banker, civic leader and humanitarian.



Dr. Richard A. Matula, P.E.

Dr. Richard A. Matula, P.E., is the Dean of the College of Engineering, Louisiana State University. Dr. Matula received his Bachelor, Masters, and Doctorate Degrees in Mechanical Engineering from Purdue University. He is a registered professional engineer in Louisiana.

Dr. Matula, as Dean, is responsible for all aspects of academic life with the College of Engineering including educational, research and service programs; budgets; funding development; and personnel matters for faculty, staff and students. His management responsibilities include six departments; three research institutes; twelve Bachelor Degree Programs, seven of which are accredited by the Accreditation Board of Engineering and Technology; ten Master Degree Programs; and five Doctorate Programs. The College has approximately 400 faculty and support personnel.

Dr. Matula formulated college and departmental goals and objectives to determine direction and needs for the College; redesigned the structure of the College of Engineering to provide access to undergraduate through doctoral programs, in

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JAMES REEVES, P.E.
ODOM AWARD

Professor and Head of the Department of Civil Engineering, Acting Dean and Dean, College of Engineering, University of Southwestern Louisiana.

Dr. Reeves has held the position of 2nd vice president, 1st vice president, and president of the Lafayette Chapter of LES and director for the state organization. He is a member of the Louisiana Engineering Foundation, National Council of Engineering Examiners, Council of Engineering Deans of Louisiana, American Society of Civil Engineers, American Society for Engineering Education, Louisiana Engineering Society, National Society of Professional Engineers, and American Petroleum Institute.

Dr. Reeves promotes engineering to high school young people through encouragement of an active JETS testing program on campus, faculty trips to "High School Career Day," and "Engineering Day" open houses in his college. He is a dynamic teacher of basic and advanced engineering principles and an effective department administrator of a civil engineering curriculum and serves as an advisor/counselor to the engineering students. He is a very active member on the Council of Deans, the ECPD and other organizations dedicated to setting goals and objectives for engineering education. Dr. Reeves has generously contributed his time, talent and energy to the university.

His contributions to the engineering profession are best exemplified by the high degree of professional respect for registered engineers in Louisiana by other states through his active service and leadership on the Louisiana State Board of Registration for Professional Engineers and Land Surveyors.

Dr. Reeves' professional honors include: Sigma Tau Sigma Honorary Civil Engineering Society, Louisiana State University; awarded a National Science Foundation Science Faculty Fellowship, University of Arizona; received the Halliburton Education Foundation Award for Excellence in Teaching; Phi Kappa Phi Honorary Society; Sigma Xi Research Society; Honorary Member, Tau Beta Pi; and Honorary Member, Blue Key, University of Southwestern Louisiana.

He is listed in Who's Who in the South and Southwest; Engineers of Distinction-A Who's Who in Engineering; Outstanding Educators of America; American Men and Women of Science; Leaders in Education; Dictionary of Internal Biography; and Men of Achievement.

Dr. Reeves is very active in community affairs. He is a member of the Lafayette

Chamber of Commerce, the Louisiana Intracoastal Seaway Association which promotes development of South Louisiana, the Louisiana Coastal Commissions Advisory Committee, and the Louisiana Association of Business and Industry. He is married to the former Clara Robicheaux and they have two daughters, Karen and Christine.

James W. Reeves' outstanding record and high standard of conduct and his active participation have been an inspiration to many of us in the Louisiana Engineering Society. His achievements exemplify the outstanding leadership recognized and honored through this award. ●

WALDEMAR NELSON, P.E.
LOCKETT MEDAL

ican stadium, a children's amusement park, and numerous other recreational facilities offered freely to the public.

The park is a non-profit organization with a Board of Commissioners of 31 persons who devote long and dedicated hours, without pay, to manage and maintain the park for the public, which was established by a State Act of 1896. The park, through the astute management of its Board of Commissioners, generates the greater portion of its operating fund from its public facilities; primarily golf, tennis, the driving range, its two stadia and refreshment concessions. The income is supplemented by appropriations from the city of New Orleans.

Although Mr. Nelson would probably be among the first to say that a facility of this size, serving patrons in this number, is highly unlikely to reach a utopian stage, each commissioner who finds himself elected as president devotes much time and energy, together with his fellow board members, park employees and city officials, to providing a place of recreation and beauty for the entire community and visitors.

Mr. Nelson is past president of the Board of Trustees of St. Martin's Protestant Episcopal School; past chairman of the School Board of St. Andrew's Episcopal School; member and former Senior Warden of Vestry of St. Andrew's Episcopal School; former scoutmaster of Troop 22 of the Boy Scouts of America; member and past president of the Society of Tulane Engineers; past member of the State Board of Registration for Professional Engineers and Land Surveyors; past president of the Louisiana Engineering Society; and past vice-president of the Southwestern Region of the National Society of Professional Engineers.

Mr. Nelson is a past president of the Tulane Alumni Association, having re-

ceived the Outstanding Engineer Alumnus Award for 1976; served chairman of the Tulane Alumni Fund three years; was a founding member and president of the Board of Advisors of Tulane School of Engineering; has been member of the Board of Visitors, Tulane University; and is a trustee of the Tulane Engineering Foundation.

Mr. Nelson has received the Charles M. Kerr Public Relations Award, the LES A. B. Paterson Medal for an Engineer in Management, and the LES L. M. Odom Professional Service Award.

Most distinguishing of Mr. Nelson's high qualifications for this award is the fact that while he pursued these endeavors, he has not diminished in a high degree of service to the profession of engineering. The predominant criteria for this award are the character and scope of the service rendered, and should be obvious to all that Waldemar S. Nelson's service to his community and has been, without parallel. ●

ASHTON AVEGNO, P.E.
COUGHLIN AWARD

responsibilities for a staff of 40 engineering, drafting and survey personnel. From September 1979 until October 1981, was Project Manager/Deputy Division Manager for the URS Comparative Metairie, responsible for all aspects of civil engineering projects. In October 1981, the firm of Jeffrey, Thomas, Avegno, Inc., was founded. Mr. Avegno is owner and is involved in all aspects of the company's activities. The firm specializes in structural and foundation design of commercial and industrial facilities.

He holds membership in the Louisiana Engineering Society, Society of Tulane Engineers, American Society of Civil Engineers, American Concrete Institute, American Institute of Steel Construction and Tau Beta Pi.

Engineering honors granted to Mr. Avegno include the American Society of Civil Engineers (Louisiana Section) Award for Excellence of Scholarship in Civil Engineering and the Louisiana Highway Engineers Association Award for Excellence in Highway Engineering.

Aside from his business and professional commitments, Mr. Avegno is an active member of Adoptive Couple Together, having served with his wife as secretary of the organization for three years and as president for two years. He is a member of the board of the Volunteers of America Maternity Home Adoption Program. Mr. Avegno is also a member of the North American Council on Adopted Children and the National

Committee for Adoption.

In addition to the engineering honors, he and his wife, the former Royann Price of River Ridge, received the 1978 President's Award for Adoptive Couples Together, and the 1982 Children's Bureau Alfred E. Clay Award for Outstanding Service to Children. The Avegnos have seven children, six of whom are adopted.

Ashton B. Avegno's outstanding contributions have demonstrated to a high degree capabilities in engineering indicating great potential for further advancement and leadership as a professional engineer, the ideals and criteria for the F. Hugh Coughlin Award. ●

ROY SCHUBERT, P.E.
RODD MEDAL
Annual Conference.

Dr. Schubert's first microcomputer application was in the area of communications for the severely handicapped. He noted the extreme cost of developing a one-of-a-kind hardware communication system. Therefore, he developed software/hardware, called Adaptive, to run on commercially available microcomputers that would allow the handicapped to communicate and interact with his environment. The system can, with any type of scanning technique, have input by a single switch, encoding and/or total selection. This input selects from menus that allow the user to write messages to the computer screen, activate a printer, answer and dial the telephone and control home appliances. The system makes full use of the microcomputer's ability to monitor itself and data is constantly logged in an effort to design a user friendly and efficient system. The system is extremely user modifiable and runs on unmodified home computers.

It became clear to him that microcomputer systems could have a significant role in the special education classroom, where there is a significant amount of remedial work and an absolute necessity for documentation of the physical ability and mentality of student performance and progress; but what part of this population could gainfully interact with the computer? To answer his question, he designed a system called Keyboard Assessment to evaluate the handicapped's ability to interact with switches and keyboards. He has assessed the whole population at the Alexandria Special Education Center. The most significant finding has been that a smaller keyboard, rather than a very large keyboard, could enable severely orthopedically handicapped students to interact with the computer. This was possible because the smaller

keyboard allows all the keys to be struck from a single hand/arm support point, while the large standard size keyboard afforded no single support point, which amplified the orthopedic problem. Thus, all 90% of the population were candidates for computer-aided learning. The special education teachers were delighted because of the stimulation it offers the students at uninterrupted consistency required in remedial work and the possibility of automatic reporting of student class time and progress.

Dr. Schubert was aware of the expense involved in transports for the handicapped and suggested that gainful employment for education be brought to the client rather than the client transported to the job site. Besides client evaluation by the way of keyboard assessment, achievement of this goal required the client to be able to use environmental control (by Adapter) and business software. This was achieved by developing a multi-tasking operating support so that unmodified commercially available software (or games) could be used. To date the most extensively requested software for the handicapped has been multi-tasking between Adapter and Word-processing.

All the above were integrated into package to place a quadriplegic polio victim into a home-based business. The project involved total assessment and work station mock up. The final system uses a standard microcomputer with the multi-tasking operating system automatically bladed from disk at the flip of a switch. The only hardware modification is a small keyboard that is maintained right under the computer screen, to facilitate access by a mouthstick. Additionally, small tabs on the disk drive door aid in floppy disc management. A robotic arm is being evaluated to assist in proper floppy disk and paper management.

It is difficult to select one single achievement for Dr. Schubert. He has contributed many small achievements that amazingly fit into a larger "systems" picture. Probably the best case in point is his use of modern integrated circuits, most notably microprocessors, to aid his fellow man. In each application he artfully applies his alertness and his medical and systems background to extend and integrate the handicapped individual into a more productive lifestyle. The most notable success has been the total work station design and computer adaptation that allows a quadriplegic polio victim to compete in the business world. By a careful system analysis and selective testing of the client, hardware interaction,

and software design, he has synergistically brought together the cutting edge of several technologies to develop a system that allows the user to use a mount stick to interact with business software and her environment, including telephone, lights, television and doorlocks.

Dr. Schubert enjoys sailing, electronics, and photography and has three children, Andrew, Daniel, and Jennifer.

Dr. Schubert's developments in microprocesses for the severely disabled has permitted the handicapped individual to seek gainful employment. The Louisiana Engineering Society is proud to honor Dr. Roy W. Schubert for his outstanding technological achievements. ●

DAUNE BRULEY, P.E.
KERR AWARD

American Society for Engineering Education; American Institute of Chemical Engineers; American Chemical Society; European Society for Microcirculation; American Society for Microcirculation; Analog/Hybrid Computer Educational Users Group; Louisiana Engineering Society; National Society of Professional Engineers; Sigma Xi; and Tau Beta Pi.

In 1967, Dr. Bruley was first place recipient of the Southeastern Section of the American Society for Engineering Education's Award for Outstanding Contribution in Research (Simulations of Oxygen Transport in the Microcirculation).

Dr. Bruley is listed in Outstanding Educators of America; Who's Who in the South and Southwest; and ISA's list of "Distinguished Speakers on Instrumentation."

Dr. Bruley has spent a large part of his 20 years in academia recruiting good students into the engineering profession. This has been done through participation in career activities on campus and by traveling around the country giving seminars and handling question and answer sessions with prospective engineering students.

Dr. Bruley has presented approximately 150 lectures at professional and civic organizations and educational institutions around the world. He served as co-coordinator of one major international meeting (1973) and is presently serving as the President of the International Society of Oxygen Transport to Tissue (ISOTT). In this capacity, he has the responsibility of organizing and coordinating the proceedings of the annual meeting to be held in Ruston, Louisiana, August 16-19, 1983.

Dr. Bruley has published approximately 80 engineering papers in a wide variety of journals and has been co-editor of four volumes of scientific proceedings

published by the Plenum Press. He has also been responsible for many newspaper articles related to his engineering activities throughout the past.

During the spring of 1982, Dr. Bruley worked closely with a local television station in Shreveport to put together documentation describing Biomedical Engineering at Louisiana Tech University. The program consisted of five two-minute sections which were aired as a five-part series. A number of stations throughout the state also showed the five-part series. News Information Weekly Services, a syndicated network, showed the five-part series on 110 stations in the United States, on several stations in both Canada and Australia, and on the Armed Services Network around the world. As a result of this viewing, Dr. Bruley was invited to make a half-hour talk show on Biomedical Engineering on WEAU TV in Eau Claire, Wisconsin.

Dr. Bruley enjoys tennis, skiing, hunting and fishing. He is married to the former Suzanne Bigler and they have three sons, Scott, Randy, and Mark.

Dr. Bruley has contributed much to the engineering profession by his practice, promotion and untiring efforts in improving the image and identity of the professional engineer through good public relations. ●

RICHARD MATULA, P.E. PATERSON MEDAL

in all principal engineering academic disciplines; restructured and presented the College of Engineering doctoral programs to the Louisiana State Board of Regents which resulted in a commendation of excellence for one program and recognized five programs as possessing high quality, great potential, and essential character for responding to Louisiana needs. He developed a proposal and coordinated a successful campus visit and evaluation by a team of consultants to the Louisiana Board of Regents for a Doctorate program in Petroleum Engineering; prepared the College of Engineering review for the Accreditation Board of Engineering and Technology which resulted in full reaccreditation of Seven Bachelor of Science degree programs; expanded the size of the engineering faculty by 30%; administered the growth of over 80% in student enrollment from 1975 to 1980; and the phenomenal growth in the enrollment of minorities and women.

Dr. Matula was with Drexel University from 1969 to 1976 prior to his position with the Louisiana State University. He was chairman of the Thermal and Fluid Science Advanced Study Group; Director, Environmental Studies Institute; and

Chairman, Department of Mechanic Engineering and Mechanics.

He holds professional memberships the Louisiana Engineering Society, A Control Association, American Society for Engineering Education, American Society of Mechanical Engineers, American Association of Science Combustion Institute, and the Society of Automotive Engineers. He holds honorary memberships in Omicron Delta Kappa, Kappa Phi, Pi Tau Sigma, Sigma Pi Sigma, Sigma Xi and Tau Beta Pi.

Dr. Matula is listed in American Men & Women of Science; Engineers of Distinction; Outstanding Educators America; Who's Who in the World; Who's Who in North America; Who's Who in Technology Today; Who's Who in the East; and Who's Who in the South and Southwest.

Dr. Matula was named by the student at the University of California, Santa Barbara, in 1966, to receive the Outstanding Teaching Award. In 1970, the students of the Mechanical Engineering Department of Drexel University named him recipient of the same award.

Dr. Matula and his wife Brenda have four children. He is a member of the Parish Council for St. Aloysius Catholic Church and enjoys fishing, swimming and snow skiing.

Dr. Matula's outstanding management ability as demonstrated by his many achievements in his chosen field of engineering education make him a worthy recipient of the A. B. Paterson Medal for an Engineer in Management. ●

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POTPOURRI

Leta Bueto Executive Director Louisiana Engineering Society



Cerveza Ligera Platform of Union Oil Company, Gulf of Mexico, Selected as Outstanding Engineering Achievement 1982

The Cerveza Ligera Platform of Union Oil Company, Gulf of Mexico, has been selected as one of the Ten Outstanding Engineering Achievements in the National Society of Professional Engineers' 17th Annual Outstanding Engineering Achievement competition.

The search for energy sources continues to spur technology development.

In the Gulf of Mexico the Cerveza Ligera Platform of Union Oil Company is a result of improving technology.

One of the key components of Cerveza Ligera (Spanish for light beer) is a simple, very light oil rig jacket (the steel frame that supports the platform). Ligera proves jackets built and installed in one unit are viable means for developing oil and gas fields in waters as deep as 1,400 feet in the Gulf of Mexico or similar environments around the world. Ligera brings the technology out of the research and development stage and offers acceptable, predictable costs and exposure.

The Cerveza Ligera platform is located 100 miles from the Texas shore (south of Galveston). The water depth is over 920 feet. Total platform installation cost was \$60 million. The jacket was constructed from September 1980 to May 1982. It is built to withstand stress, 135 mph winds, 75-foot waves and seismic activity. It measures 258 feet by 251 feet at the base, and 90 feet by 52 feet at the top. It took seven lifts to fabricate, two lifts at 2,475 tons requiring 28 cranes. The total length of the jacket, deck and rig is 1,141 feet.

The jacket is lighter than others of its kind. It has four legs, while others have eight requiring more steel and braces. Interior trusses extend only from the mudline to 215 feet below the water line.

A temporary deck was added to Ligera just above the jacket framing above the water line. This, too, was designed as an installation aid, used to deploy men and materials offshore as efficiently as possible. The deck does not permanently add steel to the structure and is easily cut free and removed in one piece. Piles were driven at the corners, where they are most efficient, rather than through interior members, thus saving steel.

The jacket was transported to sea by barge, controlled by four large tugs, floating vertically about 30 feet above bottom. It was lowered to bottom 10 hours after launch, within 50 feet

of the proposed location and within one degree of the preferred orientation. At launch, the jacket weighed 20,900 tons. It required one month to install.

The jacket was launched by barge, via a system consisting of four diesel hydraulic jacks featuring an intermittent action push/pull system. The massive structure was launched by ballasting the stern of the barge to a downward angle, with the stern pointing into the current.

Ligera supports one rig and up to 20 wells. Union Oil anticipates production of 49 million cubic feet of natural gas and 870 barrels of condensate per day. Production is scheduled to begin in 1985.

The Cerveza Ligera Platform of Union Oil Company of California was engineered by Union Oil, Houston, Texas, and McDermott, Incorporated, New Orleans, Louisiana. It is jointly owned by Union Oil, Amoco Production Company, and Mobil Producing Texas and New Mexico, Inc. It was nominated for outstanding achievement by the New Orleans Chapter of the Louisiana Engineering Society.

Solar Energy Workshops

The Department of Natural Resources is offering solar design workshops in six major cities in Louisiana. It is fundamental that local climate dictates construction designs utilizing solar energy. Hence, designs from other parts of the country are not always practical for Louisiana. The primary objective of the Department of Natural Resources' solar research program is to develop for Louisiana specific design data and useful prototype designs and to make them readily available to architects, engineers, builders, researchers, educators, and contractors throughout the state. This will facilitate the development of economically viable solar energy technologies in Louisiana and provide the information needed to make educated decisions on the feasibility of solar energy as a supplement to increasingly scarce and expensive fossil fuels.

Topics include: Summary of Louisiana Climate Data for Heating and Cooling Design; F-Chart Design and Sizing of Active Solar Domestic Hot Water and Space Heating; Design and Feasibility of Ventilated Walls and "Ice House" Roofs with New and Retrofit Applications; Design and Feasibility of Flooded Roof (Roof Ponds) Heating and Cooling and Roof Spray Cooling Applications; Salt Gradient Pond Design and Orientation; Cost Effective Agricultural Applications for Solar

Energy; and Overview of Solar Technologies and Cost Effectiveness for Louisiana.

Workshop Calendar: Lafayette, May 26 1983, Holiday Inn, Highway 90 near Airport Alexandria, June 2, 1983, Nursing Building Auditorium, L.S.U.A.; Shreveport, June 9 1983, Holiday Inn West, 4901 Greenwood Road; Ruston, June 10, 1983, Holiday Inn Ruston, I-20 at U.S. 167 exit; New Orleans June 14, 1983, University Center-Cabildo Room, University of New Orleans; and Baton Rouge, June 16, 1983, L.S.U. Union International Room, L.S.U.

Send registration fee of \$25.00 to *The Solar Design Group*, P. O. Box 21540, Baton Rouge LA 70893. Include your name, mailing address, firm or organization, and social security number. Also indicate which workshop you plan to attend.

Promotions Announced at Walk, Haydel & Associates, Inc.

Walk, Haydel & Associates has announced that C. L. (Lester) Carville, P.E., a member of LES since 1968, has been elected Vice President and General Manager of Walk, Haydel Baton Rouge, Louisiana offices.

Lester is replacing Wendell S. Taylor, Jr. P.E., a member of LES since 1965, Vice President, who will assume the position of Vice President-Project Development in the Corporate Headquarters Offices, New Orleans, LA.

Lester has been with Walk, Haydel in Baton Rouge for over 18 years, serving in the capacity of Process Design Engineer, Project Engineer, Project Manager, Director of Design, and Director of Engineering Support Services. He is a registered professional engineer and a 1942 graduate of LSU in chemical engineering.

Walk, Haydel & Associates, Inc., is a full service consulting engineering and construction management firm with offices in New Orleans, Mobile and Baton Rouge.

State Winners NSPE Scholarship Program

The NSPE Education Foundation makes available engineering scholarships to high school seniors worth more than \$354,000 to aid high school seniors interested in pursuing engineering careers in the 1982-83 program.

The LES scholarship committee chaired by Dr. Paul Hale, P.E., met in Alexandria, LA January 14, 1983 to consider 55 applications nominated by LES chapters:

Alexandria 4 Lake Charles

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Baton Rouge	3	Monroe	3
Lafayette	4	New Orleans	29
Lafayette	0	Shreveport	12

Selection of state finalists was difficult due to the fine academic and service record of each nominee. The 20 state winners, with scholarships applied for, submitted to NSPE or the national competition are:

Alexandria Chapter:

1. Michael Stephen Everett
NSPE Grant
2. Sherry Renee Jones
NSPE Grant
3. Pamela Jean Simpson
NSPE Grant
4. Cathrine Elaine Slater
NSPE Grant

Baton Rouge Chapter

5. Elizabeth Anne Bretz
Southern Methodist University

Lafayette Chapter

6. John William Green
NSPE Grant
7. Mark Wallace Gregory
Boston University

Monroe Chapter

8. Joel Thomas Trammell
NSPE Grant

New Orleans Chapter

9. Puran Katyayan Kulshrestha
NSPE Grant
10. Angela Chung Kuo
FMC Foundation
11. Julie Dawn Zalkan
John Hopkins University
12. Glenn Edwin Angel
Washington University
13. Joseph Marchand Maurin
Washington University
14. Catherine Lyn Nielsen
NSPE Grant

Shreveport Chapter

15. Louis Willie Bosley
NSPE Grant
16. Richard Mark O'Barr
NSPE Grant
17. Mitchell John Rosenbleeth
NSPE Grant
18. Arthur Hartie Spence
Boston University
19. Jodi Jessalyn West
University of Houston
20. Edward B. Loewenstein
Rice University

Congratulations to each of the students submitting applications and especially to the finalists, the scholarship committee and other members involved in the program.

LOUISIANA ENGINEER/APRIL 1983

The 20 finalists have been ranked by the LES committee. After NSPE selects national winners, LES will offer its \$1,000 scholarship to one of the finalists. The LES scholarship is given to a student enrolling in one of Louisiana's seven accredited schools.

* * *

Leo V. Bankston, P.E., Retires

Leo V. Bankston, P.E., vice president and superintendent of the Baton Rouge Water Works Company, and longtime member of the LES, retired on February 1st after 46 years of service with the company.

Bankston joined the company as an engineer in 1937. He was named superintendent in 1954 and was promoted to vice president in 1966. Since that time he has held responsibility for all construction, maintenance and operation of the physical plant.

Bankston, a civil engineer and a native of Mt. Hermon, is a member of the Louisiana Engineering Society, the National Society of Professional Engineers and the American Water Works Association, which presented him in 1969 with its highest award, the Fuller Award.

He represents East Baton Rouge Parish on the Capital Area Groundwater Conservation Commission and was instrumental in passage of legislation in 1974 which created a capital area conservation district for the orderly utilization of groundwater resources.

Bankston also is on the board of directors of the Safety Council of Greater Baton Rouge and is active in Kiwanis and Boy Scouts of America. Leo was recipient of the LES Charles M. Kerr Public Relations Award in 1980.

* * *

Hall Honored

Dr. Clarence Hall, professor of Industrial Engineering at LSU, and a longtime member of LES, was presented the Distinguished Service Award of the Louisiana Academy of Sciences at the Academy's annual meeting in Shreveport on February 4, 1983.

Hall has served as state director of Louisiana's Science and Engineering Fairs for nine years. He also serves as regional director of science fairs held in the Baton Rouge area.

* * *

Let's Build Up, Not Down, in Coastal Louisiana

The recent flooding caused by heavy rains in the New Orleans area and vicinity should emphasize in the minds of engineers, architects, builders and property owners that designing and building residences, office buildings, shops and the like at or only slight-

ly above the surrounding grade is not good practice.

This is not the first, nor will it be the last, flood to damage buildings, furnishings and stock that proper design would have kept high, dry and safe. Not to construct an underground non-flood-proof basement to house vital and expensive equipment is inexcusable.

Previous generations recognized the hazards. When all the sites on the high land (10 feet or so above sea level) near the river had been occupied, buildings on the lower land were built three or more feet above the ground line. Few of these have ever been flooded. And the ventilation thus provided gave a bonus in year-around reduced moisture problems.

With all coastal Louisiana sinking at the rate of one or more feet per 100 years, the flood potential will inevitably become greater. Authorities agree that the entire deltaic area (generally south of U.S. Highway 190) is settling approximately one to four feet per century. This is due to the slow compression of alluvia hundreds of feet thick and is in addition to local subsidence caused by land drainage and other subsidence caused by extractions from oil or deep water strata.

The possible savings of a few dollars in original construction costs is short-sighted economy in view of the potential losses from flood waters, the hazards of trapped gases and ruptured plumbing underground level slabs. The public officials and building professions along the Mississippi Gulf Coast learned a costly lesson from hurricane flooding and now their designs recognize that what has happened will sooner or later happen again. Are we going to ignore our lesson?

* * *

Engineers Club of New Orleans Elects New Officers

At its annual meeting on February 7, 1983, the Engineers Club of New Orleans elected a new Board of Directors and new officers. The following is a listing of the newly-elected members:

John J. Avery, Jr., P.E., President; P. R. Quirk, P.E., 1st Vice President; Charles W. Nelson, P.E., 2nd Vice President; J. Michael Pereira, Secretary; Oliver S. Delery, Jr., P.E., Treasurer; Howard C. McAfee, P.E., Roy E. Johnson, P.E.; J. Michael O'Hare, P.E., J. H. Couturie, P.E., Harold Olsen, P.E., Carl Bankston, Jr., P.E., F. L. Bugbee, P.E., John R. Cashen, P.E., James Joyner, P.E., Directors; and Mrs. Lorraine Rodriguez, Executive Secretary.

THE SPEC SHEET

**Consulting Engineers Section
Warren J. Wilder
CEC/L Executive Director**



CEC/L Member Honored By ASHRAE

ATLANTIC CITY — Warren G. Moses, P.E., the owner of Warren G. Moses & Company, Inc., Consulting Engineers in New Orleans, La., has been recognized for his engineering achievement and his contributions to community life by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

Moses received two awards at ceremonies held on January 24 at the organization's 1983 Semiannual Meeting in Atlantic City, N. J. He was recognized as an ASHRAE Fellow for his advancement of technology and was given the ASHRAE-ALCO Medal for Distinguished Public Service.

Moses, who holds a degree in engineering from Tulane University, is a leader in the design of control systems and heating and air-conditioning systems for large buildings. He pioneered use of energy monitoring and control systems in the South, designing systems for the New Orleans City Hall and Louisiana State Capitol in the 1950's. Among his present projects is the New Orleans Convention and Exhibition Center now under construction.

The ASHRAE-ALCO Medal was established in 1965 to encourage participation by engineers in public affairs. Moses was selected as the 1982 recipient for his work with the Growth Management Program of the City of New Orleans and Downtown Development District and for his service as a board member of the Newman School in New Orleans and Touro Infirmary also in New Orleans. He also led the fight to create the State of Louisiana Engineer Selection Board.

ASHRAE is a technical society of 45,000 members organized to advance the arts and sciences of heating, ventilation, air conditioning and refrigeration for the benefit of the public.

What is it About Moonlighting?

Employee moonlighting is one of those sticky issues many principals would prefer to avoid. They have vivid memories of earlier days when outside professional work not only provided them with additional income, but helped, as well, to keep alive the dream of one day starting a firm of their own. The idea that it may now make sense to turn around and prohibit the practice is not an easy one to accommodate.

If you find yourself among those who remain ambivalent about moonlighting, you may want to reconsider. Many firms have. Threatened by a rising tide of litigation and by courts which seem capable of going to extraordinary lengths to compensate the injured for their losses, these firms have concluded that employee moonlighting poses risks they no longer can afford.

Part of the reason lies in the modern-day consequences of an inherent human limitation. It is simply not possible to work long hours, day after day, and consistently sustain high levels of performance. Sooner or later fatigue sets in, and quality suffers. The fact is, employees who moonlight may not be capable of giving your work either the intensity of effort your clients deserve, or the degree of care your quality standards require. There is, however, a less obvious danger.

When Things Go Wrong

Assume, for a moment, someone were to suffer a serious injury on a project designed by one of your employees outside the office, and the allegation were made that the injury arose out of negligence in design. It is unlikely that your

unfortunate employee would even be in a position to mount an effective defense, much less make good on the loss. Knowing this, the attorney for the injured party would waste little time before finding someone else to bring into the suit. It would not be surprising for that someone else to turn out to be you.

If so, you will find yourself drawn into a costly, time-consuming, and frustrating process, during which the plaintiff's attorneys will raise endless questions and demand countless documents in an exhaustive search for evidence which might somehow link your firm to the ill-fated project. They will attempt to determine whether your facilities, equipment, or supplies were used; whether calls about the work were taken at your office; whether files containing project information can be located on the premises; whether those files might not contain documents bearing your firm's name.

Should they succeed they will argue, if they can, that the injured party acted (and had a reasonable right to rely) on the belief that the project was backed by your extensive experience and flawless reputation. Should they fail, you will already have lost much of your valuable time, a healthy portion of your deductible, and all of your patience. In either case, they will then turn to your policy of moonlighting hoping to find in your silence on the question "conclusive proof of your ultimate responsibility for both the project and the loss.

Through the Looking Glass

Under what far-fetched and bizarre theory could an attorney possibly deny
LOUISIANA ENGINEER/APRIL 1983

onstrate that you were somehow responsible for work over which you had absolutely no control? The argument, buttressed by evidence gathered during the discovery process, might go something like this: 1) but for your tolerance (indeed, tacit approval) of moonlighting, you would not be in a position to hire your employees at the salaries you pay, and you would not have access to the added experience they bring to their work; 2) as a result, you not only derive a significant economic benefit from the practice, but in fact, you are its principal beneficiary; 3) therefore, it is reasonable to conclude that it is you who should bear principal responsibility for the consequences.

As specious as this reasoning may sound, remember that judgment is likely to be rendered by a jury consisting of good citizens with little or no understanding of what it is that you do or what your real obligations to the injured party might be. Nor will they particularly care. Their primary concern, born of vicarious anxieties created by the plaintiff's attorney ("It could be you sitting in that wheelchair!"), will be focused on finding some way to compensate the injured party for the loss. If the injury is serious enough, neither the jury nor the court is likely to be circumspect about the extent to which they have to go to find the resources they need.

"A Stitch in Time . . ."

What can you do to avoid being drawn into a nightmare like this? It would not be a bad idea to take an unequivocal stand against the practice of moonlighting. If you find it difficult to draft an appropriate policy statement without coming across as unduly harsh, you might want to consider something along the following lines:

Our professional liability insurance counsel has advised us that there are serious risks associated with the practice of moonlighting. These risks not only affect the firm as a whole, but employees who engage in outside professional work, as well. The consequences of a loss arising from such work can be serious for both. No small part of the risk, from the employee's point of view, is the personal liability assumed in undertaking outside work. This exposure is not covered by the professional liability insurance we carry.

It is our goal to deliver to our clients the highest quality service possible

within the constraints of time and budget. In pursuit of this goal, we make every effort to maintain salaries at levels which are not only competitive, but appropriate to the full-time commitment expected of each member of the staff. The taking on of outside professional work, in our view, is not compatible with that commitment.

For these reasons, we find we have no alternative but to prohibit the practice of moonlighting as a matter of policy. Of necessity, this restriction extends to any use of office time, facilities, equipment, or supplies in support of outside professional work.

Although the intent is to be both realistic and positive, such a policy statement can still produce a certain amount of tension—particularly if the reasons for it are not clear to all concerned. Thus, you might want to introduce the policy with a memorandum forwarding a copy of this newsletter. That way, your staff will at least have access to the same information that caused you to act in the first place. Even though they will respond to it from a perspective very different from your own, it may help them reach a better understanding of your point of view.

From *The Professional Liability Perspective*, Vol. 1, No. 1, July, 1982

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**Paul L. Landry, P.E., Executive Secretary,
Louisiana State Board of Registration for
Professional Engineers & Land Surveyors.**



Proposed Rule Changes

The Board has announced its notice of intent to change *Louisiana Administrative Code 19-3:11 Expiration and Renewals (37:697)*. The Board intends to revise the Rule as follows: "Certificates of registration and certification for individuals or corporations shall expire on the date specified on the renewal certificate and shall become invalid after that date unless renewed." At the present time all certificates of registration and certification for individuals expire on December 31 of each year. This creates extremely heavy workload for the Board Office in December and January of each year. This rule change will permit the Board to renew certificates of registration and certification throughout the year.

The Board has also announced its notice of intent to revise *Louisiana Administrative Code 19-3:9.3 Approval to take the Examination in the Principles and Practice of Engineering*. The Board intends to revise this Rule as follows: "An applicant who meets the other requirements for registration as a Professional Engineer may be permitted to take the examination in the Principles and Practice of Engineering in the branch in which he/she seeks registration." At the present time some applicants are permitted to apply to take the required examination one (1) year before they are eligible for professional engineering registration. The Board on the other hand is required to review the applicant's experience statements and determine if the experience presented in the application is in fact acceptable to the Board. From the applicant's point of view, receiving permission to sit for an examination implies that the minimum experience requirements have been met. This may or may not be the case. To eliminate this confusion, the Board has concluded a much more realistic procedure would be to assure the applicant that when he is permitted to sit for an examination his application has been favorably considered and that no additional experience will be required. The registrant would then be registered as a Professional Engineer immediately following the successful passing of the required examination.

Interested persons may submit written comments or offer amendments to the proposed rules to the Board Office at its office, 1055 St. Charles Ave, Suite 415, New Orleans, Louisiana 70130 at any time prior to May 12, 1983. The Board proposes to consider and take action on the adoption of these rules at a meeting in the Board Office at 10:00 a.m. on May 31, 1983.

FIRM RENEWALS

Firm renewals notices will be mailed out April 15 thru May 1, 1983.
Fees are due not later than June 30, 1983

THE FEE SCHEDULE

Professional Engineering Firm	\$20.00
Professional Land Surveying Firm.....	\$20.00
Professional Engineering and Professional Land Surveying Firm.....	\$40.00

NOTE:

Fees postmarked 1 July 1983 thru December 31, 1983 are **twice** the amount shown above and those fees postmarked 1 January 1984 and later are **three** (3) times the amount shown above.

EXAMINATION SCHEDULE

	SPRING Apr. 14, 1984 Apr. 20, 1985	FALL Oct. 29, 1983 Oct. 27, 1984
Fundamentals of Engineering Examination (8 hrs.)	X	X
Fundamentals of Land Surveying Examination (8 hrs.)	X	X
Principles and Practice of Engineering (8 hrs.)		
Civil (Including Structural & Sanitary), Mechanical, Chemical, & Electrical	X	X
Agricultural, Industrial, Metallurgical, Mining & Petroleum		X
Principles and Practices of Land Surveying (4 hrs.)	X	X
Laws and Procedures of Land Surveying (4 hrs.)	X	

Apply at least 90 days prior to examination date.



BOARD STAFF 1983 Left to right, seated, Nita Nugent, Administration Assistant; Paul L. Landry, Executive Secretary; Robert C. Perry, Office Supervisor. Standing, left to right, Ethel Cassi, Secretary; Theresa Jefferson, Examination Clerk; Kathy Donham, Receptionist; Marilyn Irv, Processing Clerk.



BOARD AND EXECUTIVES 1983 Left to right, seated, Arthur R. Theis, Vice Chairman; Edward J. McNamara, Chairman; Francis C. Roy, Secretary. Standing, Julie D. Livaudais, Board Counsel; J. W. Reeves; A. J. Brouillette; F. C. Culpepper; J. L. Meyer; P. L. Landry, Executive Secretary; H. L. Henry; V. Adam; C. Demopulos; and Jarrell Godfrey, Board Senior Counsel.



BOARD EXECUTIVE COMMITTEE 1983 Left to right, Arthur R. Theis, Vice Chairman; Edward J. McNamara, Chairman; Francis C. Roy, Secretary.

BOARD MEETING NOTICE

The Louisiana State Board of Registration for Professional Engineers and Land Surveyors will hold its 1983 regular meetings at 1055 St. Charles Avenue - Suite 415, New Orleans, La. 70130 on the following dates:

1983

May 31
July 26

Sept. 27
Nov. 22



ENGINEERS WEEK — Lake Charles area engineers and McNeese Engineering students enjoyed a full week of activities culminating in a banquet Thursday, February 24, 1983 at the Lake Charles Country Club. Some 300 engineers and their wives joined with 70 sponsored McNeese Engineering students and their dates for the banquet, highlighted by a guest speaker, presentation of awards, scholarships and crowning of the MES Queen, Sharon Meek, a senior mechanical engineering major from Lake Charles. Pictured above (left to right) is Sherwood J. Breaux, Vice President of Refining, Cities Service Company, who was guest speaker for the banquet; Ed Lanier, Engineers Week Chairman; and B. R. Rentrop, representing the Professional Engineers in Industry, presenting for a second year the State Industrial Professional Development Award to Cities Service Company, Refining Division, Lake Charles, LA for outstanding employment practices in accordance with recognized professional standards.

MEMORIAM

Calvin T. Watts

The Louisiana Engineering Society and the engineering profession lost a fine member on February 1, 1983 with the passing of Calvin T. Watts. Watts served as President of the Louisiana Section of the American Society of Civil Engineers and the Louisiana Engineering Society and Chairman of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors.

A native of Ruston, LA, Calvin attended public schools in Lincoln Parish. He received his B.S. degree in civil engineering from Louisiana Tech University and M.S. degree from Louisiana State University.

For a 12-year period beginning in September, 1940, he served on the Civil Engineering faculty at Louisiana Tech and Campus Engineer for the University. From 1952 until 1970, his work was in the field of water resources, serving as Director and Assistant Director of the Louisiana State Department of Public Works. He was past President of the

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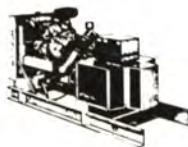


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southern Water Resource Conference
nd in 1972 completed a three-year term
s Chairman of the Board of the National
Waterways Conference.

After 30 years with the State of
Louisiana, he retired from state service
n March 31, 1970, to accept the position
f Executive Director of the Red River
alley Association with headquarters in
hreveport. He remained with the Agency
until 1976 when he retired.

He was cited by the Secretary of the
Army and Chief of Engineers for out-
standing service to the U.S. Army, Corps
f Engineers, as Director and Assistant
irector, Department of Public Works, in
ie development and execution of river,
arbor and flood control plans within
ie State of Louisiana and the Lower Mis-
ssippi Valley.

Watts was awarded the U.S. Army's
utstanding Civil Service Medal and was
arded a Certificate of Distinguished
ervice by the Louisiana Association of
oil Conservation Service Supervisors for
distinguished professional leadership
nd service."

The Society extends its deepest sym-
athy to his wife, LaVerne, to his son and
aughter, and to the other members of
s family.

Small Business Innovation Research (SBIR) Public Law 97-219

By: Harry D. Richardson, P.E.

In the mid-1970's the U.S. Congress
plemented studies of small businesses
d their contributions to the social and
onomic sectors of the United States.
erwhelming favorable results of these
udies led to convening regional Small
usinesses conferences which were
ended by 25,000 persons. At these con-
ferences, approximately 2,000 delegates
re elected to the White House Confer-
e on Small Business.

ixty recommendations to Congress
re formulated by the delegates to the
ite House Conference. Of these,
roximately 12 were selected for

LOUISIANA ENGINEER/APRIL 1983

prompt attention. Half of these have led
to the passing of Congressional Acts and
others are being studied for future ac-
tions by Congressional committees and
staff.

The recently-enacted Small Business
Innovation Development Act, P.L. 97-
219, requires all major Federal R&D
agencies to set aside funds for Small Busi-
ness Innovation Research Programs. In
addition, almost all Federal R&D agen-
cies must establish goals for prime con-
tract funding under both SBIR and
ongoing programs with small high-
technology companies.

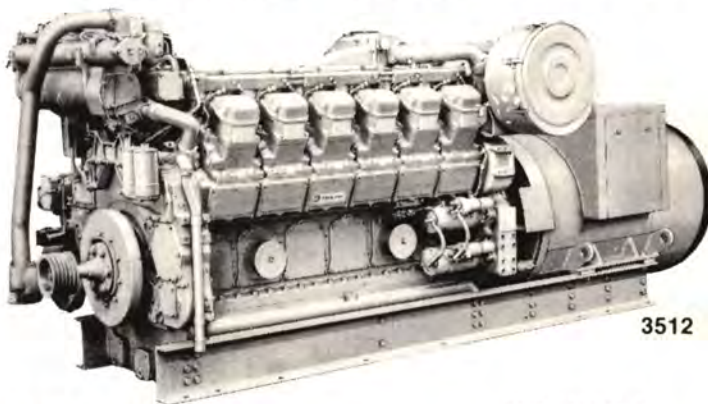
When he signed the new law, Presi-
dent Reagan spoke of small business'
large share of two of the nation's "blessed
qualities" - entrepreneurship and in-
novation. He also said,

"... Small business is a tonic for what
ails this country. By passing this Act
we're showing our resolve to unleash
this most innovative sector. The Small
Business Innovation Development Act
recognizes that we in government
must work in partnership with small
business to ensure that technologies
and processes are readily transferred
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Mr. Milton D. Stewart, Editor at Large of INC. Magazine and formerly Chief Advocate for Small Business, has organized The Small Business, High Technology Institute. This institute was founded to help American people meet a new challenge: tougher technology competition at home and abroad in the new global economy. The Institute hopes to help forge better links between basic science and applied technology. It hopes to help improve working relationships between technically competent small businesses on the one hand, and universities, large companies, and government on the other.

Mr. Stewart has established a nationwide High Technology Volunteer Network - and their organizations - willing and eager to help our people, or organizations, and our nation adjust to the fast-changing technologies of the future. Seventeen persons in Louisiana have accepted this challenge to be a part of the Institute's Network.

The first major action of this Institute is to present two conferences in conjunction with the National Science Foundation "HIGH TECH '83" inter-agency conference for small firms on Federal R&D. The first conference was in Phoenix, Arizona on March 3, 4 and 5 for persons west of the Mississippi River. The second conferences are scheduled on March 17, 18 and 19 in Washington, D.C. for persons east of the Mississippi.

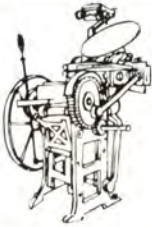
Seven Louisiana delegates attended the Phoenix conferences and others will attend the Washington conferences.

Attendance at the Phoenix conferences was much greater than anticipated. (In fact, the registration was closed because the meeting area could not accommodate larger numbers.) Such intense interest will probably lead to a number of regional conferences on entrepreneurship and innovation high technology small business.

This SBIR program with its billion dollar forecast (plus the major R&I contractor participation) could be most interesting with challenging opportunities for Louisiana small business persons.

Additional and continuing information should be available from the Louisiana delegates and Innovation Network. Two of the Network members you may wish to contact are Lamont Moody, LES President, telephone: (504) 775-4800 and Harry D. Richardson, telephone: (504) 388-0801.

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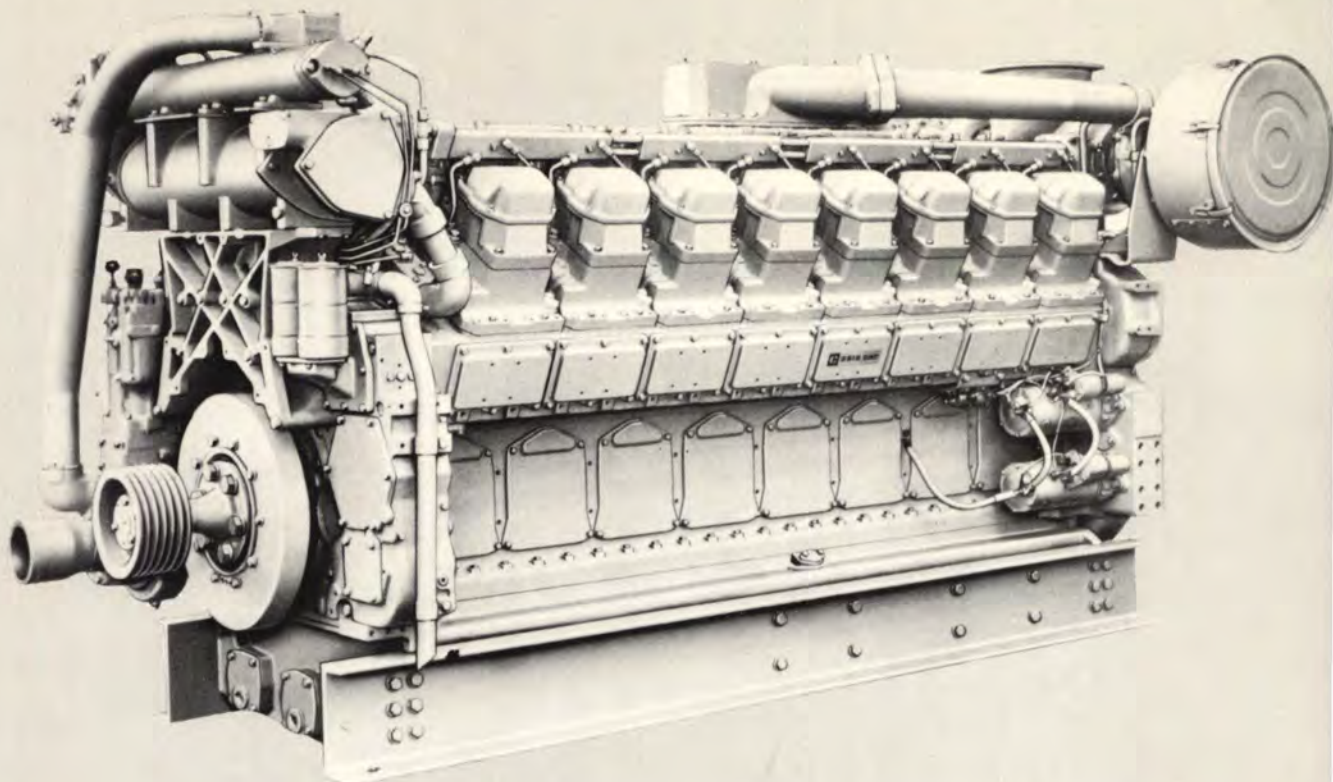
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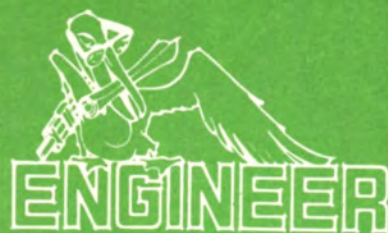
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LES Spring Meeting

ABOUT THE COVER

Scenes from the LES Spring Meeting in Lake Charles.

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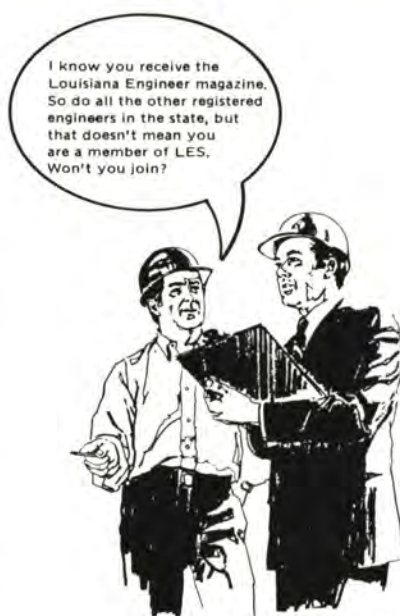
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The Louisiana Engineering Society is composed of approximately 32% of the registered professional engineers and engineers-in-training living and working in Louisiana. The legislature asks us every year why LES claims it represents the engineering profession in Louisiana and why LES makes nominations to the Governor for many Boards and agencies in state government. Our best answer: LES has the most representation of any engineering organization in the state. No other organization comes close. While this is true, we would be a lot stronger if we could claim more than 50% of all engineers in the state as members. Why do so many of you who received the LOUISIANA ENGINEER fail to participate in your professional society?

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Lamon L. Moody, Jr., P.E.
LES President

Thank you for allowing me to serve you as President of this great Engineering Society. It has been an honor and a privilege that I shall forever cherish. At the beginning of this Society Year I asked that you open your door and get involved, giving of yourselves for the betterment of our profession, the world we live in, and the world that shall live after we are gone. I have been overcome with happiness because of the multitudes of you that have come forward and played an active role in elevating our stature within the engineering and land surveying professions and among the general public we serve.

Our Engineers' Creed and Pledge has even more meaning to me now and I promise to continue trying to live up to these high ideals:

"As a Professional Engineer, I dedicate my professional knowledge and skill to the advancement and betterment of human welfare. I pledge: to give the utmost of performance; to participate in none but honest enterprise; to live and work according to the laws of man and the highest standards of professional conduct; to place service before profit, the honor and standing of the profession before personal advantage, and the public welfare above all other considerations. In humility and with need for Divine Guidance, I make this pledge."

I am proud to be an engineer for I know of no other profession that can do more for the advancement and betterment of human welfare. I feel a friendship and closeness with my fellow engineers for we share common concerns and goals. We have our weaknesses, and I fear the most outstanding of these is our timidity and reluctance to "toot our horns". In our day and age whatever public opinion says is so, or soon will be so. Public opinion is not only violated by distortions of the truth, it may be equally outraged by silence.

With so much talk going on about rebuilding the infrastructure of the state

and nation, and critical problems in energy, natural resources, education, environment, national defense, etc. we need very badly to speak out individually and collectively to remind the public that we can solve their problems. We must remind the people that we played a strong hand in making this the greatest nation on earth, and with their help we can also play a strong hand in overcoming the challenges to our leadership by some nations.

If this sounds like my "swan song", it is! But only in my capacity as President of our Society, for I will continue helping to elevate our Society and Profession in any way I can. Our eighty-five-year-old Society will continue to flourish because of the dedication of our members, past, present and future.

Many of the nine chapters of the Society have already elected officers and are in the process of forming committees for the start of the new Society Year on July 1, 1983. Ballots are out now for election of state officers and I know that our President-elect Dudley Hixson is working hard to get the Society off to a good start. I would like to encourage all of our members to contact your state and chapter officers, telling them how you would like to serve the Society during next year.

I have a deep and heart-felt appreciation to all of the members, chapter officers, state officers, committee chairmen and committee members who have worked so hard during this past year with me.

I want to thank our Executive Director, Leta Bueto, for the excellent job she has done and is continuing to do.

I want to thank my staff and associates at Dyer & Moody, Inc. for the support and help they have given me during this past year. And I am equally appreciative to my wife, Eve, and my family for their support and assistance.

I hope to see all of you at our Annual Meeting in Biloxi.

LES Spring Meeting in Lake Charles



Francis C. Roy, P.E., left, and Leo M. Odom, P.E., center, present the Leo M. Odom Award to James W. Reeves, P.E.



Waldemar S. Nelson, P.E., left, presents the A. B. Paterson Medal to Richard A. Matula, P.E.



Michael V. Aderman, P.E., left, presents the F. Hugh Coughlin Young Engineer Award to Ashton V. Avegno, Jr., P.E.

The LES Spring meeting was held April 6, 7, and 8, 1983, at the Sheraton Chateau Charles in Lake Charles. Attendance was reduced considerably because of torrential rains which swept across south Louisiana. There were seventy-four men and thirty-five ladies registered for the three-day event.

Eleven golfers braved the sprinkles to get in 18 holes. With Lloyd Hoover, P.E., participating in the tournament, who do you think won low gross and low net?

The tennis tournament had to be canceled.

There were 56 in attendance for the early bird dinner and cocktails. An excellent buffet of seafood delicacies was served.

Engineering students from McNeese State University, Tulane University, University of Southwestern Louisiana, Louisiana Tech University and Southern University presented papers at a session Friday morning. The session was moder-

ated by Bobby E. Price, P.E., engineering education committee chairman. Committee meetings were held immediately following the student paper presentations with practice division meetings the afternoon. The LES Nominations Committee, the LES Political Action Committee and the Louisiana Engineering Foundation also met in the afternoon.

Lamon L. Moody, P.E., presided during the awards banquet Friday evening with 152 engineers and



Hugh A. Thompson, P.E., left, presents the James M. Todd Technological Accomplishment Award to Roy W. Schubert, P.E.



Leo V. Bankston, P.E., left, presents the Charles M. Kerr Public Relations Award to Duane F. Bruley, P.E.



Rodney M. Vincent, P.E., left, presents the Andrew M. Lockett Medal to Waldemar S. Nelson, P.E.



Clifton A. Tannahill of Union Oil Company accepts the Outstanding Engineering Achievement plaque from Lamon L. Moody, Jr., P.E.

guests present. The Cerveza Ligera Platform of Union Oil Company, Gulf of Mexico, was selected as one of the Ten Outstanding Engineering Achievements the NSPE 17th annual competition and resident Moody presented the plaque to Clifton A. Tannahill. The group was dressed by E. Linn Draper, Gulf States Utilities, on the "Changing World of Electric Supply."

Jerrel J. Freeman, P.E., chairman of the Honors & Awards Committee,

assumed the chair for the LES award presentations. Six engineers were honored for their outstanding service to the Society and the profession.

Nineteen ladies enjoyed the tour of the Cottage Shops and lunch at the China Garden Restaurant.

The joint breakfast Saturday morning was attended by 48 ladies and men. The 1982 LES Membership Retention Award banner was presented to Steven Gauthier, Alexandria Chapter President. In

addition to the banner, Gauthier was presented a t-shirt with the same words and logo as shown on the banner.

The Society thanks Neil Koenig, P.E., general chairman of the convention and Kathy Koenig, chairperson of the ladies activities, and their committees for helping make the meeting so successful and enjoyable. ●

Coastal Protection Here and There

When trying to define the nature and needs of coastal protection, one could spend considerable time searching for a "starting point" — a basis upon which to build a discussion or a dialogue. Fortunately, such a basis exists in the introduction to the Shore Protection Manual published by the U.S. Army Coastal Engineering Research Center. Therein, coastal engineering is defined as "the application of physical and engineering sciences to the planning, design, and construction of works to modify or control the interaction of the air, sea and land in the coastal zone for the benefit of man and for the enhancement of natural shoreline resources." Shore protection is defined as "works designed to stabilize the shores of large bodies of water where wave action is the principal cause of erosion, with such stabilization works often being 'applicable to the protection of navigation channels and harbors.'"

This same publication goes on to explain:

"The nature and degree of required shore-protection measures vary widely at different localities. Proper solution of any specific problem requires systematic and thorough study. The first requisite for such study is a clear definition of the problem and the objectives sought. The first factor to be determined is the cause of the problem. Ordinarily there will be more than one method of obtaining the immediate objective. Therefore, the long-term effects of each method should be studied. The immediate and long-term effects of each method should be evaluated not only within the problem area but also in adjacent shore areas. All physical and environmental effects, advantageous and detrimental, should be considered in comparing annual costs and benefits to determine the justification of protection methods."

By accepting these definitions and precepts as "starting points" for discussing coastal protection, we accept the cumulative experience of a large group of engineers and scientists knowledgeable in the subject. The Coastal Engineering Research Center, and before that the Beach Erosion Board, has tackled the complex task of defining the diverse physical processes at play in the coastal

zone and, when need be, designing protective systems for societies inhabiting the same coastal zone.

A study of any coastal region should begin with an analysis of the geologic history of the area to obtain a "clear definition of the problem." In our own Gulf of Mexico region, a sediment study carried out by the American Petroleum Institute during the 1950's produced valuable physiographical data allowing an accurate description of the history of the Gulf coastal region. These data showed, among other things, that barrier beaches began to form along the coast about 6500 years ago when the rapid post-glacial rise of sea level abated. Behind these barriers, small deltas, salt marshes, oyster reefs, and lagoons began to form. These features remain today as perhaps the most prominent geologic formation along much of the West and East Gulf coasts. Where lagoon formation was enhanced by freshwater runoff from the uplands, inlets cut through the barrier beach, often forming long barrier islands parallel to the main coastline. In Texas, Padre Island stretches over 160 km along the western Gulf shore, with Laguna Madre behind it reaching a width of 16 km in some places. Similar islands are to be found at intervals from Cat Island (off the coast of Bay St. Louis, MS), Ship Island (off the coast of Biloxi, MS), on down to the Florida Keys.

In the Central Gulf Coast, the dominant geologic feature is, of course, the Mississippi River delta system, which has continued to progress over the previous coastline by the deposition of some 500-750 million tons of sediment per year. Fine, silty clays are deposited as a submerged prodelta in depths of about 100 meters, and these prodeltas are overlain by deltas of silty sand and silty clay. At an active distributary, the coastline migrates seaward at a rate of about 50 meters per year. Once deposited at the river mouth, the sediment is redistributed by wave, wind, and current action.

Meandering of the distributary system results from breaching of the natural river levees during floods and the establishment of steeper hydraulic gradients to the Gulf. Seven major sub-deltas have formed during the past 6000 years, with

the present configuration dating back about 500 years. Its immediate predecessor (Plaquemine delta) began its formation roughly 1200 years ago. Prior to that the major delta (Lafourche delta) reigned for about 800 years in the present location of the much-discussed and disputed Lower Atchafalaya Basin.

In the broad areas between major distributaries, delta-plains tend to form. However, due to sparse annual deposition and a continued compression of the prodelta sediments, these plains subside below sea level. In areas where subsidence is slow, or offset by the emergence of deep geologic features (such as salt domes), considerable depths of peat can develop from organic decay material deposited in annual cycles.

Near the offshore ends of the distributaries, plastic clays from the prodelta deposits deform due to inshore compression by the advancing delta. These clays sometimes buried as deeply as 13 meters, rise as diapirs, or mud lumps. In critical areas, these must be continually surveyed, marked with buoys, or dredged to maintain adequate navigation channels. At locations where these diapirs rise above sea level and become islands, they are subjected to wave attack and are subsequently eroded away.

Once one has an understanding of the physiological history of a particular coast, a study of the physiological present will provide the necessary information for making sound decisions regarding planning for an undeveloped coast or regarding protective measures which may be required on a developed coast. Unfortunately, the engineer sometimes finds himself faced with requirements of the second category and wishing he had been around during the first. In 1972, a program was underway in the state of Florida to establish a "coastal setback line" for the entire coastline of the state thereby defining the limit beyond which it would not be judicious to build permanent structures. Based upon the best historical and survey data available at the site, the engineers on the project were able to determine the minimum setback distance and did provide the State with useful information in planning for future land use. For those private and commercial

cial owners whose property fell seaward of the set-back line, the news that their coastline was in danger of erosion usually came as no surprise.

Whether for planning or design purposes, the study of the physiological present of a given coastline should include as many of the following factors as are relevant to the site:

1. Wave climate—By far the predominant factor on exposed coastlines, the wave climate will dictate the orientation of structures (and size of elements of structures) in order to minimize forces under design conditions.
2. Astronomical tides and tidal currents—On gently sloping coasts, the monthly range of spring and neap tides can affect the location of structures and the scheduling of construction or repair efforts. On coastlines indented by inlets between barrier islands, daily tidal currents can have a significant effect on sediment transport.
3. Storm attack—The frequency and return interval of severe storms will influence the feasibility of coastline development or repair.
4. Sediment characteristics—The mean particle diameter and grain size distribution are important for cohesionless soils. For cohesive sediments often found in estuarine systems, physical transport phenomena are coupled closely with chemical bonding of suspended fines so chemical make-up may be significant.
5. Wind—When beach sediments are susceptible to transport by wind, this factor may be important when predicting the protection requirements or behavior of a coastline.
6. Longshore currents—These may be associated with tidal changes or unrelated phenomena such as fluvial discharge or wind setup.
7. Groundwater—Closely related to soil type, but often seasonally variable, the presence or lack of groundwater on steep coasts can affect their ability to withstand erosion.

Along with the physiological facts associated with a particular segment of a coast, one must gather relevant sociological and economic data pertinent to the site. If a certain coastline is in need of attention, an industrial site in danger of flooding by storm waves may warrant armoring of the beach with stone or concrete. A municipal bathing beach experiencing erosion would be poorly served by a similar sort of protection.

Once sufficient data are obtained and the problems and objectives pertinent to a particular requirement defined, the proper solution must be chosen. The coastal engineer faced with this choice has a number of alternatives available, some of which are listed below:

1. The "do nothing" solution—Not as trivial as it may seem, this solution will at times be a sound recommendation for handling a problem. Most undeveloped open coasts have an elastic shoreline which migrates over an annual cycle. Steep, short-period "winter waves" will transport beach material offshore, where it is deposited as offshore bars. Gentle, long-period "summer waves" often transport this or other migratory material back onshore where, by wind, tidal, or other action, it can be restored above mean sea level. Many natural beaches will thus "heal themselves" if given enough time.
2. Rigid structures—A variety of permanent structures such as revetments, bulkheads, seawalls, groins, jetties, and shore-connected or offshore breakwaters have found application in the past. Traditional materials have been stone, concrete, asphalt, and timber. Recent developments allow new variations with traditional materials, such as precast revetment blankets or "quilted" fabrics which can be pumped full of grout after placement. Impervious or selectively filtering sheet available today have found applications in the design of slope protection and rubble breakwaters.
3. Flexible or moveable structures—An example of moveable structures

used for coastal protection is the Mulberry Harbor built for the "Operation Overlord" re-invasion of Normandy by the Allies during World War II. Concrete caisson structures built for a 2-year design life were re-used under the Marshall Plan to repair coastal defenses in the southern provinces of The Netherlands. Other caissons, too damaged for re-use, remain at Normandy today, forming an artificial reef abounding in rock crabs and other marine life. Recent flexible protective systems include floating breakwaters of foam-filled concrete elements or discarded tires, such as the experimental section soon to be tested in Lake Pontchartrain.

4. Beach nourishment—Under the proper circumstances, beach nourishment by the addition to suitable material in an effective and aesthetic solution to shore protection. Natural breaches are very effective wave energy dissipators; and by taking advantage of littoral drift patterns, extensive areas of beach can be protected with relatively simple equipment and procedures.
5. Vegetative cover—Another aesthetic solution to coastal protection, this can usually only be used in conjunction with other measures. As coastal flora are subject to extremely adverse environmental conditions, they are also highly susceptible to damage by man. Laws are most often required which prohibit access to areas where vegetation is being used as a means of dune stabilization and shoreline protection.

Working with these or other alternatives, permutations of solutions to problems can be developed and a group of feasible alternatives sifted from the combination. Once a tentative alternative is defined, the prudent engineer will check the solution against similar solutions applied previously, remembering the maxim of experience being the best teacher. In our own regional enclave, experience with coastal protection has been domin-

ated by flood protection systems based on hurricane conditions. These levees often lie well back from the coast and are primarily concerned with a static water level rise rather than repeated wave attack. The vast majority of the delta region is protected by natural beaches backed by extensive salt marshes. Barrier islands such as Derniere and Timbalier Islands and the Chandeleur chain have undergone continual damage and self-repair with little need of protective measures. Grand Isle, since it has supported a considerable population, has been the scene of some frantic and some well-planned protective measures. Localized mining installations tapping the mineral resources of the delta have required protection, although few are located on that narrow strip of ocean vs. land called "shore". Offshore structures have their own set of coastal engineering problems but do not generally include coastal protection per se.

The history of coastal protection in the U.S. provides considerable reference for comparison of proposed protective measures although it must often be a qualified comparison. The rocky coastline of the Pacific states is rather dissimilar to our beloved Mississippi mud. The Atlantic beaches bear certain similarities to Gulf beaches but are subjected to a different wave climate due to extended fetch lengths for generating waves in the open ocean.

One locality with conditions somewhat similar to those found here is The Netherlands. The western part of the country is located on the Rhine delta, which is slowly settling into the North Sea. The coast is protected from the open North Atlantic by the British Isles but get subjected to periodic severe storms which travel the axis of the English Channel. After experiencing one such storm during 1952 which flooded many of the lower provinces and took nearly 2000 lives, the Dutch have strengthened their sea defenses and have successfully withstood two storms similar in magnitude to that earlier disaster.

The present Dutch expertise in coastal defense stems from a long history of experience with their elements and materials available for protecting their coastline. The "do nothing" solution was first

discarded around the first century A.D. when hamlets on the Friesian shores of the Zuider Zee built extensive mounds to protect themselves from the tidal waters. These measures became more systematic in the 8th and 9th centuries when the responsibility for maintaining the dikes fell originally on the clergy, who were to collect funds and see that the defenses were properly maintained.

The Dutch have found it necessary to develop various techniques, as their high ground has diminished continually due to a rising sea level and a sinking land mass. Only by reclaiming lands below sea level and building extensive sea dikes have they avoided being squeezed into a smaller and smaller area. Today about 40 percent of the land area lies below sea level. New areas being developed for residential use near Amsterdam are 7 meters below M.S.L. With the responsibility attached to such decisions, the planners are in close contact with the engineers who analyze and design the country's coastal defenses.

The primary defense over much of the Dutch coast is the natural beach and dune system. The foreshore beach is shallow enough to break incoming waves, dissipating much of their energy. Behind the beach, dunes formed by strong winds stand to heights of 20 meters above M.S.L. Vegetative cover holds the dune sands, with public access being provided on narrow asphalted bicycle or footpaths. When winter storms cause minor damage to the toe of the dunes, sufficient repair is afforded by using reed windows to trap wind-blown sands until beach grasses can become reestablished.

On developed coastlines such as those bordering the old Zuider Zee (now the IJsselmeer), rigid protection was built centuries ago by the fishing communities located there. In protected harbors, houses were even built directly on the rear slope of the protective dikes, with the crown of the dike forming a major artery for pedestrian and vehicular traffic.

On the barrier islands which line the northwest coast of The Netherlands, the natural dune system is "reinforced" at critical locations. A system of "hidden defense" is installed several meters be-

low the natural dune slope, consisting of an asphalt layer at lower elevations and an energy dissipator of concrete blocks at higher elevations. This system is covered by beach sands which may remain undisturbed for years while being subjected to average wave conditions. During extreme storms, the dune sands may be eroded and transported offshore, but the hidden structure serves to minimize the loss of material. Following the storm, the beaches are re-formed by natural processes or occasionally by the use of additional mechanically-placed material.

Here in the U.S. the proper utilization of our coastal regions will continue to be of prime importance to the public body and private concerns which become responsible for segments of that coast. The 1970 census revealed that the majority of the U.S. population lives within 15 miles of the ocean and Great Lake coast and the trend is for a shift of population to coastal regions. With these facts before us, we have a responsibility to achieve a sound program of balanced utilization for those coastlines. ●

Charles W. Nelson, P.E. is an engineer with Waldemar S. Nelson and Company, Engineers and Architects, New Orleans.

He received his Bachelor of Civil Engineering degree from Georgia Institute of Technology and his Master of Science degree in Coastal and Oceanographic Engineering from the University of Florida.



NÔTRE MÉTIER

**Paul L. Landry, P.E., Executive Secretary,
Louisiana State Board of Registration for
Professional Engineers & Land Surveyors.**



December 31, 1984 - This will be the last day the Board will accept an application under the provisions of Louisiana Revised Statutes 37:693 B (2) (d) and LAC 19-3:3.3.4 **Long Established Practice**. Under the provisions of this rule and statute the Board does give consideration to individuals who have been working as Engineers for twenty (20) years and over. The minimum years of engineering practice required is related to formal education, for example:

1. BS in Engineering from an ABET approved curriculum — twenty (20) years experience required.
2. BS degree that's acceptable to the Board — twenty-four (24) years experience required.
3. No degree — twenty-eight (28) years of experience required.

The rules of the Board further state that before the Board will grant approval for anyone to take the Principles and Practice of Engineering Examination, the applicant must appear before the Board or a committee of the Board for an interview and an oral examination.

If you know of anyone who qualifies for consideration under the **Long Established Practice** provision of the statutes and rules of the Board, urge him to apply for registration because the time to do so is limited.

August 1, 1983 — This is the last date for an application to be filed with the Board which will be given consideration for the October 29, 1983 examinations. This raises the question, "Does that mean if I file an application prior to that date that I will be scheduled for the October 29, 1983 examination?" **NO, IT DOES NOT.** The next question is "Why?" The answer is that the processing and review of an application depends upon third parties which **neither** the Board, the Executive Secretary of the Board or the applicant have control. Data which the Board must have for review must be supplied directly by third parties such as universities, professional references and work references. These third parties may or may not supply data that is acceptable to the Board or they may fail to respond in a timely manner. Applicants should apply as **early** as possible before an examination. Six to eight months is not **too** early.

December 31, 1983 — Individual renewals for 1984 must be postmarked no later than this date. Renewal notices will be mailed out between October 15 and November 1, 1983. There **may be** a change this year. Some registrants may be billed for more than a one-year period. The recent proposed rule change **LAC 19-3:11 Expiration and Renewals 37:697** will permit the Board to renew certificates of registration and certification throughout the year. This means that some adjustments will need to be made. The details will be published after the Board has given approval for the rule change.

FIRM RENEWALS

Firm renewals notices were mailed out April 15 thru May 1, 1983. Fees are *due not later* than June 30, 1983

THE FEE SCHEDULE

Professional Engineering Firm	\$20.00
Professional Land Surveying Firm	\$20.00
Professional Engineering and Professional Land Surveying Firm	\$40.00

NOTE:

Fees postmarked 1 July 1983 thru December 31, 1983 are **twice** the amount shown above and those fees postmarked 1 January 1984 and later are **three** (3) times the amount shown above.

EXAMINATION SCHEDULE

	SPRING Apr. 14, 1984 Apr. 20, 1985	FALL Oct. 29, 1983 Oct. 27, 1984
Fundamentals of Engineering Examination (8 hrs.)	X	X
Fundamentals of Land Surveying Examination (8 hrs.)	X	X
Principles and Practice of Engineering (8 hrs.)		
Civil (Including Structural & Sanitary), Mechanical, Chemical, & Electrical	X	X
Agricultural, Industrial, Metallurgical, Mining & Petroleum		X
Principles and Practices of Land Surveying (4 hrs.)	X	X
Laws and Procedures of Land Surveying (4 hrs.)	X	

Apply no later than August 1, for the October 29, 1983 examination.

NCEE Professional Engineers Examination

The National Council of Engineering Examiners (NCEE) is seeking item writers to prepare questions for the Principles and Practice of Engineering Examinations. The item writers they are seeking should be practicing engineers in private practice, government, or industry. They now have sufficient number of engineers from education assisting in this program. If you are interested write to:

John C. Von Kaenel
Examination Coordinator
NCEE
P. O. Box 1686
Clemson, SC 29633-1685

Include your telephone number in your initial correspondence.

You will receive compensation if the questions you submit are accepted by NCEE.

BOARD MEETING NOTICE

The Louisiana State Board of Registration for Professional Engineers and Land Surveyors will hold its 1983 regular meetings at 1055 St. Charles Avenue - Suite 415, New Orleans, La. 70130 on the following dates:

July 26	1983	Sept. 27
		Nov. 22

1983 CEC/L Annual Meeting



1983 CEC/L Annual Meeting - A Big Success

Consulting Engineers Council of Louisiana recently held its 1983 Annual Meeting, the first ever of its kind, as it was held in Cancun, Mexico. An enthusiastic group of 47 engineers and their wives (94 in all) boarded a chartered aircraft and flew into Mexico for a long weekend. The trip culminated 14 months of intense planning and preparation by a committee composed of Carter Brown, Fielding Johnson, Warren Wilder, and chaired by President Peter Quirk.

After a rather impromptu and exhaustive search by the Mexican authorities of the Executive Director's crate containing awards, programs, etc., the group proceeded by bus to the Exelaris Hyatt which overlooks the beautiful Caribbean. That evening the group attended an opening reception and orientation session, which was held outside the hotel

in an area adjacent to the white limestone beaches. The Board of Governors met briefly the next afternoon at which time a member development slide show was presented by that committee's chairman, Bob McKenzie. The slide show received overwhelming approval from the Board. Following the Board meeting, Al Sommerud, national accounts manager for *Consulting Engineer* magazine, presented an in-depth profile of the engineering profession which was supplemented with slides. He talked about the need of educating prospective clients as to who consulting engineers are and what they do. He mentioned that the average age of engineering firms is 16 years and that there has been a 30.4% growth of small firms (1-25 personnel) between 1980 and 1982. He concluded his presentation with market projections for 1983.

The Awards Banquet was held that evening. President Quirk introduced his

1982-1983 Board of Governors and presented each with a plaque of appreciation. Scholarship committee chairman Keith Capdepon, was called upon to announce the two winners of the 1983 CEC/L Scholarship Contest. National Director Bob McKenzie was recognized for his capable representation at the ACEC Board of Directors meetings with a plaque of appreciation. One of the highlights of the evening was the honoring of Alfred Rayner as the 1983 recipient of the coveted A.E. Wilder, Jr. Award for his contribution of outstanding service to CEC/L.

The gavel was handed to the 1983-1984 president, Vernon Meyer, who presented the Past President's plaque to Peter Quirk for a job well done. He then introduced his Board of Governors. Executive Director, Warren Wilder, gave a brief explanation of some of the accomplishments of CEC/L during the past year. Bob McKenzie presented the membership d

THE SPEC SHEET



Consulting Engineers Section
Warren J. Wilder
CEC/L Executive Director

Cancun, Mexico



development slide show to the entire group. The banquet concluded with a key note address by ACEC President, Russell Smith, who talked about the issues that face the consulting engineer and what ACEC is doing about them. Combined with an excellent meal, it was a most enjoyable evening.

The next day was a "free day" with some of the group touring the Mayan ruins at Chichen Itza while other opted to shop or bask in the sun on the beaches. On the final day, the group was treated to a "breakaway" buffet breakfast after which we departed Mexico for home.

The whole trip resulted in making of new friends and relationships, a chance to talk informally about business and to just relax from the stress of the profession.

Special thanks goes to Pete Quirk who personally handled and resolved the little problems that arose from time to time during our stay in Mexico. Incidentally, **LOUISIANA ENGINEER/JUNE 1983**

the 1984 Annual Meeting Planning Committee, after getting so many favorable comments from the engineers and their wives, has decided to hold the 1984 meeting out of the country again. In summary, the 1983 Annual Meeting was a most memorable one and everyone reported a great fun time.

Al Rayner Honored at 1983 CEC/L Annual Meeting

Alfred G. Rayner, Rayner & McKenzie, Baton Rouge, La., was honored at the 1983 CEC/L Annual Meeting as this year's recipient of the A.E. Wilder, Jr. Award.

The A.E. Wilder, Jr. Award was established in 1976 in memory of CEC/L's former Executive Director who passed away that year. The award is presented to a member who is not serving on the Board of Governors and who has contributed outstanding service to the organization.

In his award presentation remarks,

Executive Director, Warren Wilder, son of A.E., pointed out that Rayner became a member in early 1957 and rarely missed a membership or board meeting. He was active at a time when the Council, then known as the Gulf Institute of Consulting Engineers (GICE), was developing fee schedules for the various disciplines, a monumental task and one whose results are often taken for granted. He was active in the formative years of GICE, a time when the organization was trying to establish its identity and recognition in the state.

He served on the 1958 Nominating Committee and was elected President of the GICE in 1959. He was energetic and enthusiastic and required his board to work for results. He and his board worked on the standardization of fees for mechanical and electrical work. He saw the formation of the Special Highway Committee to attempt to break down the barrier between the Louisiana and Mis-

Mississippi consulting engineers and the respective highway departments.

He stressed the importance of increased membership in order to make the GICE more representative of the practicing engineers. It was during his administration that the present membership procedure was established including the establishment of an approved prospective member list. He proclaimed that one meeting a year would be called Ladies Night so that the wives may develop some interest in the institute. This has evolved into what we now call our Annual Meeting Awards Banquet. A group insurance program was discussed to benefit the members. He served on many committees after his term of office.

A March 24, 1959 letter from Secretary-Treasurer, John P. Jones sums up the drive and determination of Mr. Rayner:

"Our new president is a very energetic person, enthusiastic over the beneficial possibilities of the Gulf Institute. He has expressed some very sound ideas aimed at making the Institute better known not only as an organization by advertisement, but through its benefits to its members. Al not only

needs each member's utmost cooperation, he is going to require us to work. If this sounds frightening, remember that enthusiasm is contagious and you just might enjoy it."

The entire membership of CEC/L offers Al sincere congratulations!

Baton Rouge Student Places 2nd in National Scholarship Competition

John Michael Terhoeve, Baton Rouge, La., a 1981 graduate of Catholic High School, placed second in the American Consulting Engineers Council's Scholarship Competition. He competed with 69 other students from across the nation. John will be a senior at Louisiana State University this fall and will graduate in May, 1985 in electrical engineering. Thus far, he has earned a 3.98 grade average (he made one B!). In his essay, which is part of the entry, he states, "I see multitasking men and women possessing not only technical expertise, but also a knowledge of law and economic principles. Most of these attributes stem from the organizational and communicative abilities that each engineer must possess to be effective in his job." In his spare

time, John capably holds down a part-time job at the Baton Rouge engineering office of Levy-Kramer & Associates, Inc.

This marks the first time in the history of CEC/L that a student from Louisiana has placed in the national competition. He will receive \$3,000 from ACEC and \$1,000 from CEC/L for winning the state contest.

John tied for first place in the state contest with a student from Southern University. Karen Latrise Butler, Plaquemine, La., will be a junior at Southern in Baton Rouge this fall. She will graduate in May, 1985 with a B.S. in electrical engineering. She has earned a very respectable 3.84 grade average. In her essay, she states, "Success in consulting engineering requires a sincere dedication to service. This is the very essence of the professional attitude: service to others before self-interest. Honesty and integrity are a keystone in engineering where poor design of a structure, machine or plant will show all to see that the laws of nature cannot be warped by intrigue, slyness or deceit."

Karen will also be presented \$1,000 from CEC/L for her 1st place entry. •

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1983 Southwest Regional Meeting

The NSPE Southwest Regional Meeting will be held September 21-23, 1983, at the Mes-calero Apache Tribes' Inn of the Mountain Gods, Mescalero, New Mexico. The Inn is situated on the banks of the 148-acre Lake Mescalero and within the shade of the 11,400 foot Sierra Blanca Mountains. Reservations at the Inn, for the special rate of \$70 per night, single or double occupancy, will have to be made by August 5, 1983. To receive a registration packet contact the New Mexico Society of Professional Engineers, 1615 University NE, Albuquerque, New Mexico 87102, telephone 505/247-9181.

Robertson Named ASME Fellow

Richard B. Robertson, P.E., executive vice president, Bovay Engineers, Inc., Baton Rouge, LA, has been named a Fellow of the American Society of Mechanical Engineers. The Fellow grade is conferred upon a member who has had at least 10 years active engineering practice and who has made significant contributions to the field of engineering.

Robertson, who was president of ASME in 1974-75, has been with Bovay since 1948. He became a partner in the firm in 1952 and executive vice president in 1962. He has been responsible for direction of all power generation projects for Bovay, including steam and electric power plants for utilities, industrial plants and institutions. He has also managed design and construction of gas/oil fired generating units up to 400 megawatt size and coal-fired units up to 600 megawatt size.

In addition to serving as a past president of ASME, Robertson was vice president, Region X; chairman of ASME's Committee on Staff Personnel; and as a member of the Policy Board, Professional Affairs. Robertson is a member of the National Society of Professional Engineers and the Louisiana Engineering Society, and a Fellow of the American Consulting Engineers Council. He is a past president of the Houston Engineering and Scientific Society.

A registered professional engineer, Robertson received his Bachelor of Science in Mechanical Engineering degree from Purdue University in 1942. ASME is a technical and educational organization with membership of 107,000. It conducts one of the world's largest technical publishing operations, including technical papers, books, codes, and standards.

Hurstell Elected to New Position

The Board of Directors of New Orleans Public Service Inc. on March 24 elected Malcolm L. Hurstell Senior Vice President and General Manager of the company. He assumed his new duties on April 1. Since 1978, Hurstell has been serving as Vice President, Engineering and Production.

A native of New Orleans, he received a degree in electrical engineering from LSU in

Leta Bueto Executive Director Louisiana Engineering Society



1948. His entire business career since graduation from college has been with Public Service, where he began work as an assistant engineer and rose through several promotions to manager, Electric System Planning Division, in 1964. He was elected Vice President, Engineering in 1975.

Hurstell is a life member of the Society having served as its President in 1975-76.



Left to right: Jimmy Hernandez (member of the third place team The Professionals), Charles Eberhart, Kirk Houser (members of the first place team The Flying Buttress Brothers).

Fourth Annual "Toothpick" Bridge Design Competition

The fourth annual "Toothpick" Bridge Design Competition sponsored by Clinton & Pavey, Inc. and the Dallas Chapter of the Texas Society of Professional Engineers was held Saturday, February 26, 1983.

High school students from Dallas and Carrollton-Farmers Branch Schools constructed bridges out of round wooden toothpicks held together by a bonding cement of their choice. The bridges were tested by a compression machine. The entry which supported the greatest load before failing was declared the winner.

Winners of this year's competition were:

First Place—The Flying Buttress Brothers. Team members were Nathan Schwade, Charles Eberhart and Kirk Houser of Skyline High School. Bridge consisted of 778 toothpicks and carried a load of 230 lbs. at failure.

Second Place - Jassi Brar of Skyline High School. Bridge consisted of 610 toothpicks and carried a load of 180 lbs. at failure.

Third Place - The Professionals. Team members were Jimmy Hernandez and Mike Edwards of Seagoville High School. Bridge consisted of 745 toothpicks and carried a load of 170 lbs. at failure.

First, second and third place winners received plaques. Also, first and second place winners received prize money of \$50 and \$25, respectively. All participants received participation certificates.

Society of Women Engineers Awards

The Greater New Orleans Section of the Society of Women Engineers has awarded its 1983 Certificates of Merit for Excellence in Mathematics and Science to 61 local high school women.

Candidates were nominated based on outstanding achievement in at least three years of math and science courses as well as contributions to community and school. The awards are given annually to recognize the qualities of those who pursue a career in engineering. The students will have the opportunity to meet local women engineers at a reception hosted by SWE this month.

Winners were:

Marion Abramson High: Gynetrea Harrison, Colleen Olson, Than Bang Thi To, Li Chuan Ying.

Academy of the Holy Angels: Edda Bodden, Julie Zitzmann.

P.G.T. Beauregard High: Deborah Deo Gracias, Deborah Eckerle, Sherri Martinez, Patricia Soule.

Archbishop Chapelle High: Suzanne Calamari, Susan Haydel, Angela Kuo, Karen Simmons.

Cabrini High: Sharon Crenshaw, Elizabeth Cuccia, Tiffany Giancontiere, Kathy Lauto, Debra Mann, Nancy Maurin.

J.S. Clark High: Lisa Foley, Marie Schwann.

John Ehret High: Sheren Anise, Antonia Buenaventura, Karen Holman, Monica Mire.

Immaculata High: Stacey Miguez, Leslie Perkins, Diane Rieth, Rachel Stack.

Andrew Jackson High: Julie Dorsey, Alisa Goetz, Tina Lusey, Fe Magvili.

Grace King High: Polina Ingman, Catherine Nussbaum, Michelle Oliver, Marie Richelle.

Mount Carmel Academy: Rosaria Guastella, Sandra Hymel, Angela McLean, Dawn Nuschler.

St. Mary's Academy: Andriette Martin, Jalonda Morris, Deleese Smith, Damita Williams.

St. Mary's Dominican High: Anne Bailey, Pamela Hingle, Estelle Ruth, Elizabeth Valenti.

Seton Academy: Colette Abadie, Maria Crombie, Dania Hernandez, Valencia Martin.

Ursuline Academy: Marie Menard, Stephanie Morrow, Karen Niemeck, Angela Winand.

O. Perry Walker High: Ruth Arnold, Carol Randall, Felicia Schmidt.

The Society of Women Engineers was founded in 1949. The purpose of the organization is to serve as a center of information on women in engineering and to encourage women engineers to attain high levels of education and professional achievement. Membership internationally numbers over 12,500 women and men. In addition to the Greater New Orleans Section, the Metro area has student sections at the University of New Orleans and Tulane University.

Join your Professional Engineering Society

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Funds Sought to Restore Engineers Memorial Carillon

A \$15,000 donation to help restore the carillon in Leuven, Belgium, which has served for better than 50 years as a memorial to the engineers who lost their lives in World War I, has been announced by Alexander Korwek, Executive Director of the United Engineering Trustees.

In making the announcement, Mr. Korwek also said five other U.S. engineering societies, the American Society of Civil Engineers, the American Institute of Mining, Metallurgical and Petroleum Engineers, the American Society of Mechanical Engineers, the Institute of Electrical and Electronics Engineers, and the American Institute of Chemical Engineers have collectively donated \$15,000 to honor the name of Charles Kettering. Mr. Kettering was a donor to the original fund in 1927.

The memorial, which was installed at the tower of the University Library in Leuven, Belgium, 54 years ago, consists of a clock and a 48-bell English carillon. The 48 bells are symbolic of the then 48 states, and the largest bell (F#, 7,096 Kg.) is known as the Liberty Bell of Leuven. It was dedicated on July 4, 1928, through the generosity of the United Engineering Societies, which donated \$50,000 for its purchase and \$10,000 for its playing and maintenance.

Irvan Mendenhall, chairman of the American Association of Engineering Societies, said, "The carillon, which is the only known memorial to American engineers in the world, was once the very finest of concert instruments. When it was installed, it was the best instrument of its kind in Europe, and it is quite well-known in Belgian, and in musical, circles. But it is presently in very poor con-

dition, due to weather and neglect. It suffers from rust damage on steel framing parts, heavy corrosion of the bells caused by airborne pollution, water damage in the tower and neglect of the instrument's transmission system and keyboard."

"This carillon has withstood the ravages of World War II," Mr. Mendenhall went on to say, "but funding is now urgently need to restore it completely, both as a musical instrument and as a war memorial. The cost of a complete restoration, including the recasting of the smallest bells and the addition of one larger and much-needed bass bell, is estimated at \$244,000."

"When this needed work is done," Mr. Mendenhall added, "We will rededicate the carillon to preserve the memories of the many members of our profession who lost their lives in all wars. We must see that this beautiful memorial is preserved for the future in a suitable condition."

To coordinate the fund-raising, and oversee the restoration of the carillon, the Leuven Carillon Committee has been established. Chairman of the committee is Margo Halsted. Ms. Halsted is a member of the faculty of the Music Department and carillonneur at the University of California, Riverside. Legal advisor to the committee is Theophil Rusterholz. Other members include the King of Belgium, the American Ambassador to Belgium, the Belgian Ambassador to the U.S., the Archbishop of Mechelen-Brussel, the Rector of the University of Leuven, George Habach, President of the United Engineering Trustees, Eugene Zwayer, President of AAES, and the presidents of the Belgian and American Carillon Guilds.

Mr. Mendenhall appealed for further

contributions from the engineering profession, which are tax deductible. They should be sent to the Belgian American Educational Foundation, Inc., 195 Church Street, New Haven, CT 06510. An individual or a company may sponsor the renovation of one bell for \$5,000. The names of all donors of at least \$25 will be inscribed on a plaque at the base of the tower.

IN MEMORIAM

JAMES T. HUEY, P.E.

James T. Huey, P.E., a member of the Louisiana Engineering Society since 1939 and a life member since 1969, expired on April 30, 1983 at his home in Crowley, LA. Mr. Huey received a B.S. degree in civil engineering from Louisiana Tech University in 1925. He began his engineering career in 1925 with Oil Field Surveys and construction work with Southern Pipe Line Company, El Dorado, Arkansas. In 1926, he went to work for the Kentucky Highway Department, and in 1929, he was employed by the Louisiana Department of Highways, Bridge Design Section, and retired from there in 1969. He will be sadly missed by his many friends and family.

IN MEMORIAM

PHILIP HOPE CAMPBELL, P.E.

Philip Hope Campbell, P.E., a member of the Louisiana Engineering Society since 1924 and a life member since 1957, expired on May 7, 1983. Mr. Campbell was a native of Liverpool, England and a resident of New Orleans. He graduated from Tulane University in 1924 with a B.S. degree in civil engineer and was a member of Pi Kappa Alpha fraternity. Mr. Campbell returned to New Orleans last year after 37 years in Barranquilla, Colombia where he was technical director and assistant manager of UNIAL - Union Industrial Astilleros Shipyard. He retired in 1965 and formed his own company, Campbell Compania Limitada, in partnership with Augusto Malabet, Colombian naval architect.

Campbell was a lifetime member of the Society of Naval Architects and Marine Engineers.

In 1956, he was one of two U.S. civilians to be awarded the Almirante Padilla Medal by the Colombian Navy.

He served as president of the American Men's Society and the Anglo-American Club and was lay reader and warden of St. Jo Episcopal Church in Barranquilla. serving with the Coast Guard in New Orleans during World War II, he developed and taught a course in naval architecture at Tulane University.

Campbell is survived by his wife, Barbara and two sisters.

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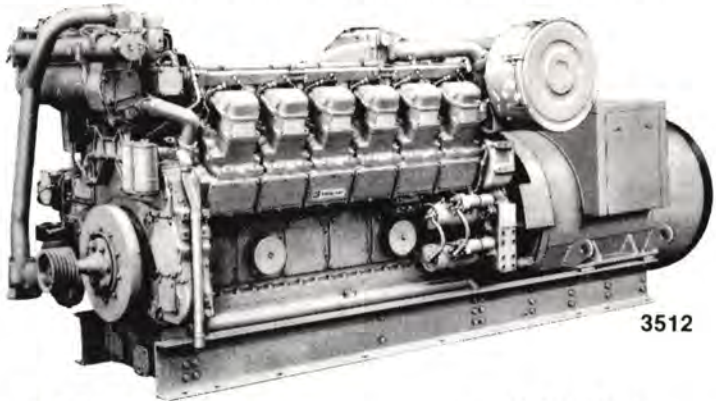
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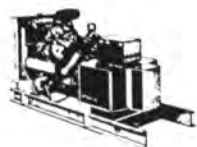
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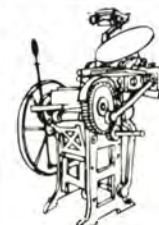
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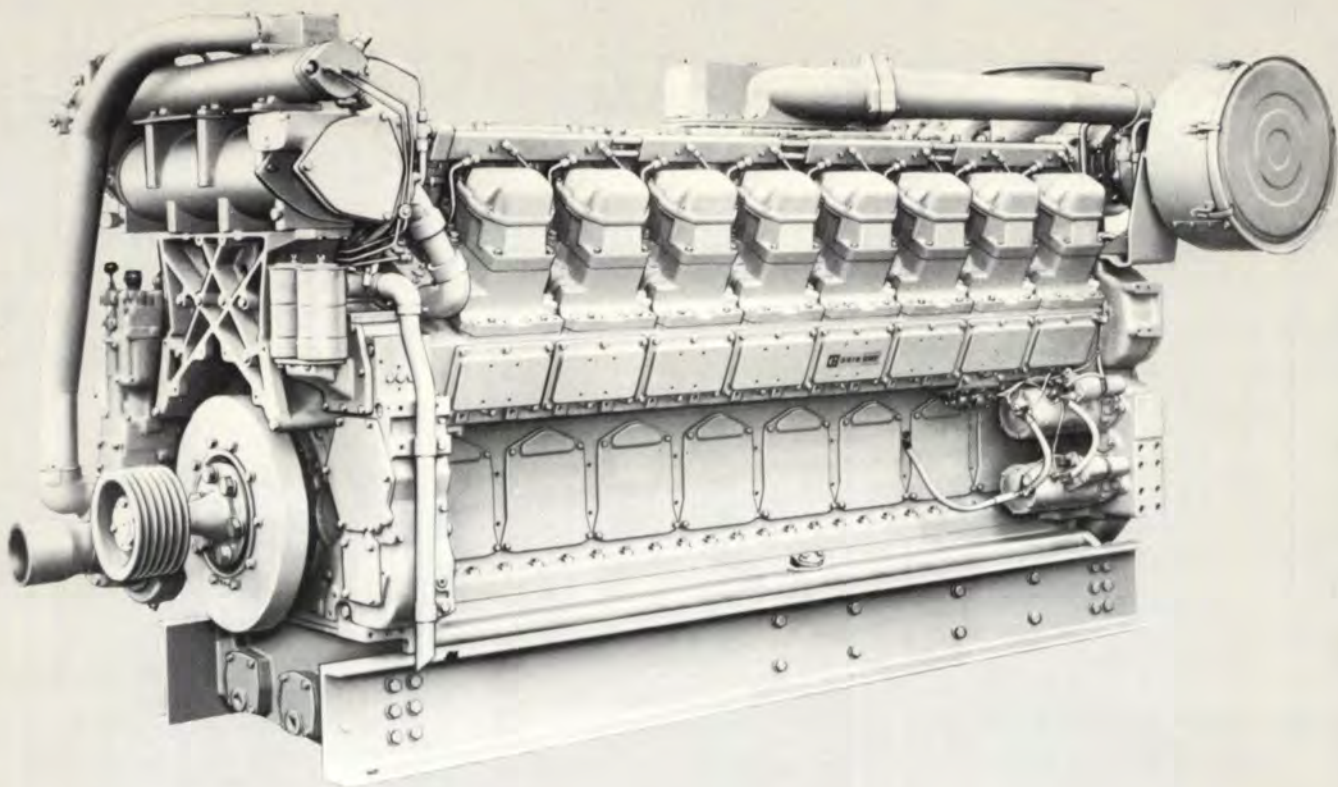
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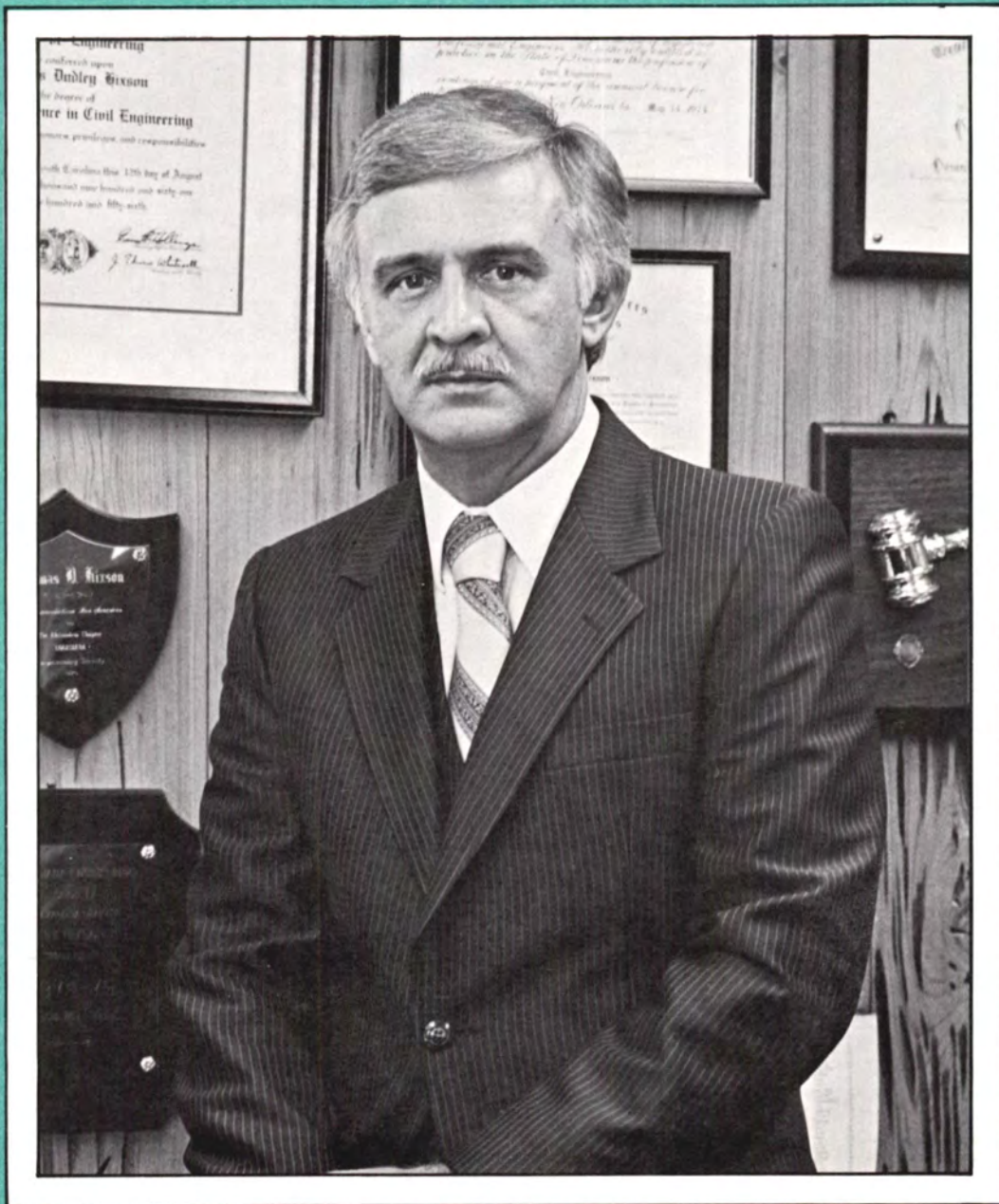
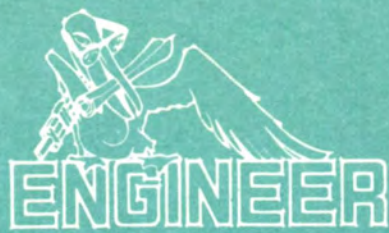
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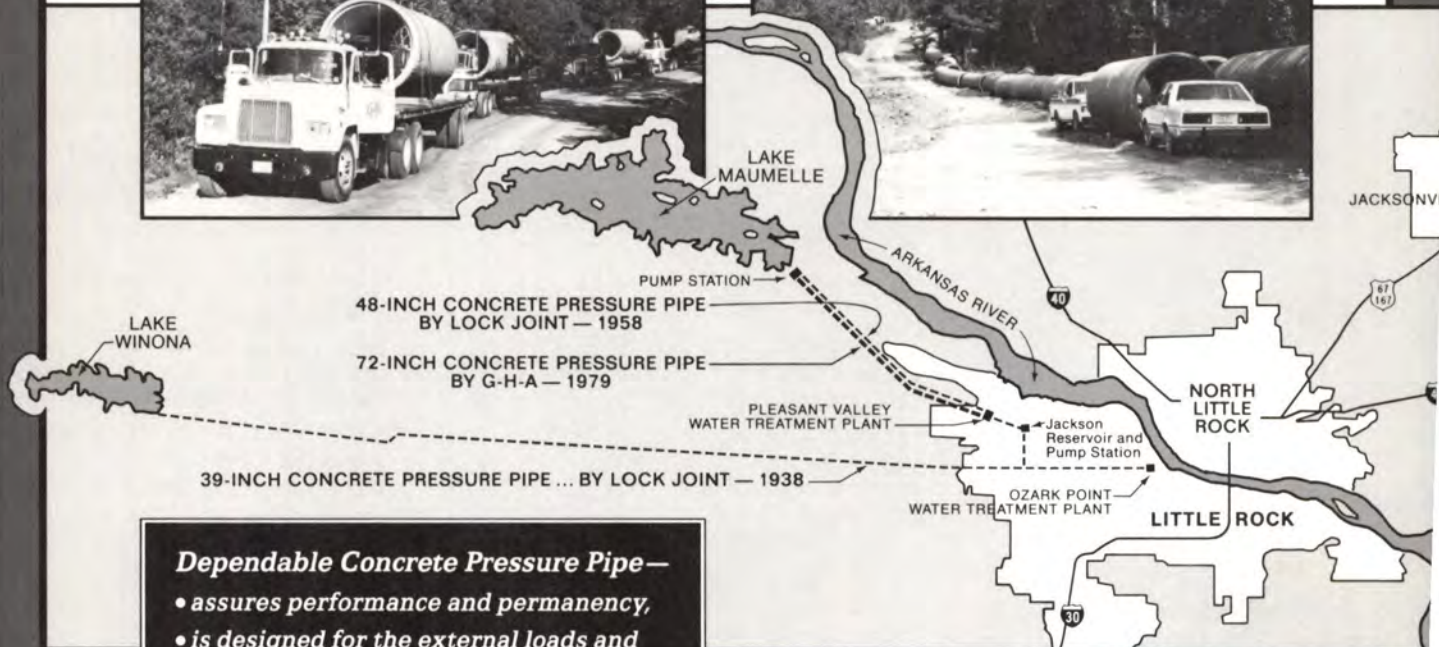
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Congratulations to all of the newly elected officers, practice division chairmen and committee chairmen of the Louisiana Engineering Society! The various offices and positions of responsibility to which they have been elected are the outward and visible signs of the trust that their fellow members have bestowed upon them. I am confident that our Society will continue to grow in prosperity and achievement under their guidance.

Pay me now, or pay me later. Trite? Yes. True? You bet! This expression had to have emanated from our tendencies to put off until tomorrow that which takes effort today; or, accordingly, to ignore the obvious, hoping that it will go away. The need for your commitment to your profession, in time, talent and financial support, will certainly never go away, and there's no better time than right now, today, to do something about that need.

If you are not now a member of the Louisiana Engineering Society, or you are a member who has been coasting for a while, I urge you to become involved and participate in the decisions and efforts that guide the destiny of your profession. After all, this is our chosen profession and it will become what we make it, or, what others will make it, if we abdicate our duty, right or responsibility to develop, nurture and guide our professional concerns.

Engineering is a profession, and we are called upon by society, and by the very nature of engineering, to respond professionally. Most of our behavioral patterns, including professionalism, are learned through example and by association. I wholeheartedly submit that there is no better opportunity for you to nurture your professional concerns than to form your active professional association with the Louisiana Engineering Society - today. Pay your profession now with your commitment or possibly pay the price later, of watching from the sidelines as your profession becomes something foreign to you.

The annual dues for membership amount to less than one cup of coffee a day; or the approximate equivalent of one night out on the town. I sincerely believe that most engineers would agree that the dollar cost is more than worth it.

So if you have been procrastinating, or wondering why, or if, you should join L.E.S., I invite you into the midst of an exceptionally fine group of engineers, approximately 3,700 strong, who are working daily on behalf of your interests.

We will be addressing some very pressing concerns in the coming years. All engineers should be aware that the number of high school students taking technical classes in advanced mathematics and physics is declining. That is to say, the very source of the future of our profession, our high school students, are not receiving the guidance necessary to promote an interest in a technical education. This must be changed if our country is to maintain its leadership in engineering and technological accomplishments. There are parallel and related concerns within the teaching profession in our engineering schools.

We are also faced with broad legislative action and reform that daily affects our chosen profession. We must remain very attentive to and ready to respond to legislation adverse to, or in the positive interest of, the profession.

According to public opinion polls, we hold a high position of trust, indicating that we are doing many things to the satisfaction of the public. However, there are indisputably many more positive efforts that we can make to increase the understanding of our profession by the recipients of our services.

Do you remember Newton's first law? "A particle left to itself will maintain its velocity unchanged" - or stated otherwise: A body at rest tends to stay at rest, unless acted upon by an external (applied) force.

Consider, for a moment, a helicopter that is hovering. There is a lot of horsepower being utilized and there is a lot of machinery in motion, but it isn't going anywhere! All of the forces acting on the helicopter are in balance. To successfully go where you want to go, you must make some control inputs of a positive nature. The opportunities that we have to make positive inputs to our profession are many and varied.

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Manager, Electric System Div.
NOPSI
New Orleans, LA



State Director
Glynn P. Gautreau, P.E.
Chief Engineer
Louis J. Capozzoli & Assoc.
Baton Rouge, LA



State Director
Dale T. Hunn, P.E.
Asst. V.P.
Waldemar S. Nelson & Company
New Orleans, LA



State Director
Neil H. Klock, P.E.
Design Engineer
Meyer, Meyer,
LaCroix & Hixson, Inc.
Alexandria, LA

New Chapter Presidents and Practice Division Chairmen



Alexandria Chapter President
Kerry J. LaBauve, P.E.
Principal Engineer (Owner)
LaBauve & Company
Alexandria, LA



Baton Rouge
Larry A. McKee, P.E.
Professional Engineering
Consultants
Baton Rouge, LA



Bayou Chapter President
Jerry Kilby, P.E.
President
Southern Consulting Engineers
Houma, LA

Lake Charles, President
(Not available)



Lafayette
Gary Amy, P.E.
President
General Computer, Inc.
Lafayette, LA



Monroe Chapter President
Bobby E. Price, P.E.
Professor Civil Engineering
& Director of Undergraduate
Studies
Louisiana Tech University
Ruston, LA



New Orleans Chapter President
Marvin Firmin, P.E.
Project Engineer
The Aerospace Corporation
New Orleans, LA



North Lake Chapter President
Isaac Boggs, P.E.
Operations Manager
South Central Bell
Abita Spring, LA



Shreveport Chapter President
Homer Purtle, P.E.
Owner
Purtle & Associates
Shreveport, LA

Chairmen, Practice Divisions

LES has five practice divisions, which provide the means for engineers to develop professional relationships with others in the same field of employment.



Education
Ruston Huckabay, P.E.
Professor Chemical
Engineering
Louisiana Tech University
Ruston, LA



Government
John H. Stinson, P.E.
Computer Center Manager
Department of Transportation
& Development
Baton Rouge, LA



Industry
John J. Bergeron, P.E.
Sr. Electrical Engineer
NOPSI
New Orleans, LA



Private Practice
Curtis E. Dyle, P.E.
Partner
Dyle-Lechtenberg &
Associates, Inc.
Lake Charles, LA



Construction
Thomas C. Mitchell, P.E.
Assistant Superintendent
of Engineering
Stone & Webster Engineering Corp.
Baton Rouge, LA

LES 27th Annual Chapter Officers Training And State Planning Conference

September 15-16-17, 1983 Sheraton Inn, Alexandria

All state, chapter, practice division and committee members are urged to attend the conference. Use the registration and hotel reservations coupons attached. (Block of rooms reserved until September 1, 1983.)

PROGRAM

Thursday, September 15, 1983

11:00 a.m.-5:00 p.m.	Registration
12:00 Noon	Golf, Alexandria Golf & Country Club
2:00 p.m.	Tennis, The Courtyard
7:00 p.m.	Early Bird Cocktails & Dinner Alexandria Golf & Country Club

Friday, September 16, 1983

8:00 a.m.-12:00 Noon	Registration
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CHAPTER OFFICERS TRAINING CONFERENCE

8:30 a.m.	Opening Remarks and Purpose of Meeting
8:45 a.m.	Legislative Activity
9:00 a.m.	LES-Political Action Committee
9:30 a.m.	Meetings & Programs
9:45 a.m.	Practice Divisions
10:00 a.m.	Louisiana Engineering Foundation (LEF)
10:15 a.m.	State Board of Registration

COMMITTEE MEETINGS

10:20 a.m.-12:15 p.m.	
Membership	Eric Duck, P.E.
Young Engineers	Rodney Jeter, P.E.
Engineering Education	Walter Vodrazka, P.E.
Liaison State Board of Registration	Jerrel Freeman, P.E.
Political Action Committee	Curtis Dyle, P.E.
Ethics & Professional Conduct	James Ballard, P.E.
12:30 p.m.	Luncheon
	Address by Lt. Gov. Bobby Freeman
	Presentation of Louisiana Industrial Professional Development Award to Texaco, USA, Louisiana Division
2:00 p.m.-3:30 p.m.	Council of Deans
Legislative	Wilfred Barry, P.E.
Public Relations	Glynn Gautreau, P.E.
Inter-Society Relations	Billy Rentrop, P.E.
Constitution & Bylaws	Francis C. Roy, P.E.
Scholarship	Paul Hale, P.E.
Honors & Awards	John E. Ritter, P.E.

PRACTICE DIVISION MEETINGS

3:45 p.m.- 5:15 p.m.	
Construction	Thomas C. Mitchell, P.E.
Education	Houston Huckabay, P.E.
Government	John Stinson, P.E.
Industry	John J. Bergeron, P.E.
Private Practice	Curtis E. Dyle, P.E.

CHAPTER PRESIDENTS MEETING

5:20 p.m.	Kerry LaBauve, P.E.; Larry A. McKee, P.E.; Jerry Kilby, P.E.; Gary Amy, P.E.; Neal Koenig, EIT; Bobby Price, P.E.; Marvin Firmin, P.E.; Isaac Boggs, P.E.; Homer Purtle, P.E.; and Dudley Hixson, P.E.
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7:00 p.m.	Cocktails & Dinner Harold Miles Park Enjoy a real treat - a cochon de lait prepared by Gerald Simmons, former Executive Secretary of LES Cocktails hosted by Louisiana Industries, Inc. Golf & Tennis Awards Presentations
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Saturday, September 17, 1983

7:30 a.m.	Breakfast (Ladies & Men)
8:30 a.m.	Louisiana Engineering Foundation
9:30 a.m.	LES General Membership Meeting
10:30 a.m.	LES Board of Direction Meeting

Ladies Program

Thursday, September 15, 1983

1:00 p.m.-5:00 p.m.	Ladies Hospitality Room Open
12:00 Noon	Golf, Alexandria Golf & Country Club
2:00 p.m.	Tennis, The Courtyard
7:00 p.m.	Cocktails & Dinner, Alexandria Golf & Country Club

Friday, September 16, 1983

9:00 a.m.-10:00 a.m.	Ladies Hospitality Room Open
10:00 a.m.-2:30 p.m.	Tour of the Crit S. Asher Home and the Grand Old Bentley Hotel Luncheon
2:30 p.m.-5:00 p.m.	Ladies Hospitality Room Reopens There will be a display of pottery and baskets by Kent Follette on display in the lobby all day Friday and Saturday morning.
7:00 p.m.	Cocktails & Dinner, Harold Miles Park

Saturday, September 17, 1983

7:30 a.m.	Breakfast (Ladies & Men)
9:00 a.m.	Ladies Hospitality Room Open

The Louisiana Engineering Society state office and the Alexandria Chapter have planned a special treat for Friday night. A cochon de lait, prepared by Gerald Simmons, former LES Executive Secretary, has been scheduled. Come enjoy the Good Times, the Good Food, and the Good Friends.

"Laissez les bons temps rouler"

REGISTRATION COUPON - LES TRAINING CONFERENCE**Sheraton Inn - September 15-16-17, 1983****CLIP OR
REPRODUCE &
MAIL TO:****LES
P.O. Box 2683
Baton Rouge,
LA 70821****Name** _____ **Spouse's Name** _____**P.E.** _____ **E.I.T.** _____**CHAPTER AFFILIATION** _____

		No. Tickets	Amount
Registration (Members)	\$ 9.00	_____	_____
Registration (Ladies)	\$ 4.00	_____	_____
Early Bird Dinner	\$ Not available	_____	_____
Friday Luncheon	\$ 9.00	_____	_____
Friday Dinner	\$ Not available	_____	_____
Breakfast	\$ 7.00	_____	_____
Ladies Tour	\$ Not available	_____	_____
Golf	\$20.00	_____	_____
Tennis	\$ 6.00	_____	_____
		TOTALS	=====

Payment Enclosed ☐ Will Pay at Desk ☐

Please pre-register early so that we may have a count for the
cochon de lait. The events for which prices are not included
will be kept at a nominal fee.

MAKE CHECKS PAYABLE TO LES

**LOUISIANA ENGINEERING SOCIETY
Sheraton-Alexandria Room Reservation**

**CLIP OR
REPRODUCE &
MAIL TO:****Sheraton-Alexandria
2716 W. MacArthur
Alexandria,
LA 71301
(318) 487-4261**

Please reserve the following:

King	Double/Double
_____ 1 Person - \$40.00	_____ 1 Person - \$40.00
_____ 2 Persons - \$46.00	_____ 2 Persons - \$48.00
plus tax	plus tax

Additional charge for each additional occupant.

Rooms will not be held after 6:00 p.m. unless guaranteed or reservation
is accompanied by an advance deposit.

Check out time: 12:00 noon

American Express Card # _____

Master Card # _____

Visa Card # _____

Date Arriving _____ **Hour** _____ **a.m. p.m.** **Departure Date** _____**Name** _____**Address** _____**City & State** _____ **Zip** _____

LES 1983 Annual Meeting



Arthur DeFraitcs, Jr., P.E., right, installed the LES officers: From left to right, Glynn P. Gautreau, P.E., Dale Hunn, P.E., Robert P. Blanche, P.E., Henry E. Markel, Jr., P.E. and Dudley Hixson, P.E.



Thomas Dudley Hixson, P.E., left, President, accepts the gavel from outgoing President, Lamon L. Moody, P.E.



Dudley Hixson, P.E., left, presents a gavel plaque to the outgoing President, Lamon L. Moody, Jr., P.E.



Donald Weinert, P.E., Executive Director, National Society of Professional Engineers, addressing the group.

The LES Annual Meeting was held on June 16-18, 1983 at the Royal d'Iberville Hotel in Biloxi, Mississippi, with sixty-nine engineers registered for the meeting.

There was not a planned program for the ladies, but Joy Meyer, with the assistance of the Gulfport Chamber of Commerce, put together an excellent tour of the art and craft shops in the area and had an excellent time. Our appreciation to Joy.

The meeting got underway with recreation on Thursday afternoon. The golf tournament, held at Gulf Hills and chaired by Henry E. Markel, Jr., P.E. had 15 participants. Winners were: 1st Place Low Gross, Glynn Gautreau, P.E.; 2nd Place Low Gross, David Meyer; 1st Place Low Net, David Buck, P.E.; 2nd Place Low Net, Neil Klock, P.E. Two ladies competed in golf. Bonnie Gautreau won first place and JoAnn Meyer won second place. There were seven participants in the tennis tournament chaired by Robert Blanche, P.E. The winners were: Men — 1st Place, Larry McKee, P.E.; 2nd Place, Garland Penni-

son, P.E. Ladies — 1st Place, Jean Blanche; 2nd Place, Leta Bueto. Prizes were presented at the installation banquet.

The early bird cocktail party and buffet was attended by 78 adults and seven children at poolside with absolutely perfect weather.

The state office and the Board of Direction have received a number of requests in the last couple of months to allow more meeting time for committees and practice divisions. In an effort to meet this request, committee meetings were scheduled from 8:30 a.m. until noon, and practice division meetings were scheduled from 1:30 p.m. to 4:00 p.m. on Friday. The new format proved to be most successful and should probably be considered in the future. A luncheon buffet was served to 57 people.

The attendees were given a special treat during the coffee break on Friday morning. Meyer, Meyer, LaCroix & Hixson, Inc., hosted a specialty of "chocolate covered strawberries, pineapple, and bananas." As we enjoyed every bite, we mentally calculated the number of

calories and how long it would take us to work them off. We're sure everyone will agree, the treats were worth the extra pounds. Our special thanks to the firm of Meyer, Meyer, LaCroix & Hixson, Inc.

The Louisiana Engineering Foundation and the Political Action Committees met on Friday afternoon. In addition to these committees, a PEE sponsored panel discussion on "Computer Literacy in Education and Practice" was held on Friday from 4:00 p.m. to 5:30 p.m.

The Installation Banquet was attended by 126 engineers, wives, and guests. Arthur DeFraitcs, Jr., P.E., past NSPE/PEPP Chairman, installed officers. Donald Weinert, P.E., Executive Director, National Society of Professional Engineers, spoke to the group about NSPE and its activities.

The breakfast on Saturday morning was attended by 86 people. Immediately following breakfast, the general membership meeting was convened. Committee reports were given by the chairmen. The Board of Direction meeting was held following the general membership meeting.

POTPOURRI

Leta Bueto
Executive Director
Louisiana Engineering Society



In Memory Of

Special contributions may be made "In Memory Of" a deceased friend or relative to the Louisiana Engineering Foundation. This program was established in 1982 as a means of recognizing those engineers and friends of engineers who have passed away. All contributions are tax deductible and checks should be made payable to LEF and mailed to P.O. Box 2683, Baton Rouge 70821. The funds will be used to promote the profession of engineering in Louisiana through education and research. LEF hopes to be the window through which the public views the engineering profession in Louisiana.

A memoriam plaque is hanging in the Foundation headquarters building. The names of the deceased and his/her date of death are engraved on individual brass plates.

Upon receipt of contributions, letters are sent to the family of the deceased.

Notice to Consulting Engineers - RE:LDOTD

For your information, the following is a repeat of a notice to consulting engineers which appeared in the NEW ORLEANS DAILY JOURNAL OF COMMERCE on June 1, 1983:

"Notice is hereby given that the Louisiana Department of Transportation and Development, Office of Highways, will no longer publicly advertise for engineering firms interested in performing engineering and/or land surveying services for the Department. In the future, the Department will only notify those firms which are on its solicitation list. Information relative to being placed on the Department's solicitation list may be obtained by contacting the Project Control Office, Room 410, DOTD Administration Building, telephone (504) 342-7725."

Nation's Largest Engineering Scholarship Program Offers 190 Awards

This year the National Society of Professional Engineers has awarded 190 engineering scholarships and grants to high school seniors around the country. Recipients were selected from among 1,473 applicants and were judged from national standard test scores, essays, transcripts and extra-curricular activities. Scholarships range from \$1,000 for one year to four-year full tuition scholarships in excess of \$20,000. This program, administered by the NSPE Educational Foundation, is the largest of its type in the United States.

Since the program began in 1960, approximately 970 students will have been awarded Foundational scholarships and grants. The assistance program is made possible by generous contributions from businesses, schools, the Society's Auxiliaries and individual donors. This year four industrial firms and 32 universities are participating. Additionally, NSPE offers seven separate grants in each of the Society's six geographic regions, three memorial grants, one for a student in construction engineering, and six minority grants.

A Nice Gift

Marathon Oil Company has pledged \$50,000 to the University of Southwestern Louisiana petroleum engineering department. The grant will be in five annual installments of \$10,000 and intended to supplement the salaries of USL petroleum engineering faculty members.

Congratulations to the University of Southwestern Louisiana, one of Louisiana's six accredited engineering schools.

New NSPE Headquarters

On May 23, 1983, the National Society of Professional Engineers held groundbreaking ceremonies for the new headquarters building. The building will be constructed at the corner of King and Peyton Streets in Alexandria, Virginia. The building will offer 61,000 square feet of office space on six floors with on-site parking for 99 automobiles. Formal dedication of the cornerstone will take place in July of 1984 and occupancy is expected by early 1985.

NSPE Committee Appointments Announced

Louis A. Bacon, P.E., NSPE President-Elect, has completed his list of committee and representative appointments for the administrative year 1983-84. The following LES members have been appointed to national committees:

James L. Meyer, P.E., Registration & Qualification for Practice Committee; Robert P. Blanche, P.E., Management Information Committee.

Promotions Announced at Waldemar S. Nelson and Company, Inc.

The Board of Directors of Waldemar S. Nelson and Company, Inc. announced the promotion of the following officers: Jerrel J. Freeman, P.E., Executive Vice President; Richard J. Cabiro, Vice President as Manager of Engineering; and Charles W. Nelson, Vice President as Manager of Project Administration. Our congratulations to these fine members of the Louisiana Engineering Society.

In addition to the promotions, Waldemar S. Nelson & Company, Inc. announced the retirement of Henry I. Madden, President, and the election of Charles H. Weatherly, Executive Vice President, as President. These changes were effective July 15, 1983.

**Join your
Professional
Engineering
Society**

**For more information,
write to:**

Louisiana Engineering Society
P. O. Box 2683
Baton Rouge, LA 70821

Coping with the Question of Ownership of Documents

In the heady atmosphere that accompanies the bringing in of a new job, nothing seems quite so important as signing the agreement and getting on with the work. Yet, your contract with the owner is almost certain to raise a number of issues, quite apart from your fee, which could prove to be critically important to you later on. One is the question of ownership of documents.

It is not uncommon for clients to request ownership of your plans and specifications. Corporate clients assume they will somehow be of future value, and agencies of government reason that the public, having paid for your services, has a right to "own" the result. What these clients may only vaguely understand is the burden of potential liability you have to take into account in responding to their requests.

The risk can be substantial. Fortunately, you can go a long way toward minimizing this risk, if you treat the question of ownership as the serious consideration it is, and if you take the trouble to convey to your clients an understanding of the underlying liability problems it entails.

"What if . . . ?"

There are three major concerns. The first is that someone, at some unknown point in the future, will reuse your documents without your knowledge, and a loss will ensue. The second is an extension of the first. It is the possibility that, by virtue of their "sale" and reuse (and in light of a pressing need to compensate an injured party for a loss), your plans and specifications will somehow be construed by a court to be products, subject to strict liability standards, rather than the instruments of professional service you intended them to be. In either case, and certainly in the latter, it would not be surprising for the court to find you liable for the loss—regardless of the fact that you were in no position to do anything to prevent it.

The third concern is more immediate. Consider the possibility, however remote, that your client might choose to terminate your services during the course of the job. If he or she were in a position to demand that you turn over your partially completed work, you could have no recourse but to comply. If so, you would be likely to find yourself with very little leverage left to protect your substantial

interest in seeing the project through to a successful completion.

Making Your Point Clear

Retain ownership of your plans and specifications, if you can. They are, after all, an expression of your own unique concepts and ideas. In this sense, they are not "for sale," but only available in a particular form for the solution of a specific problem. Otherwise, they properly belong to you, and you have a vital professional and financial interest in protecting against their misuse.

Most owners have no intention of reusing your plans and specifications, and in response to your concerns, they will tell you so. This is beside the point. In spite of the best of intentions, your client cannot guarantee that someone, unknowingly or unscrupulously, might not take it upon himself to use the documents on another site or to modify them for an addition to the project. This is a risk you are in no position to assume.

If your client remains unpersuaded and you find yourself with no alternative but to agree to the transfer of ownership, take great care in negotiating the protections you need in return. This will not only help to reduce your risk to a tolerable level, but it will give you an opportunity to make certain your client understands the dangers of using your documents without your participation. In the long run, your candor may turn out to be the most important benefit of the negotiation process: You will have an informed client, and rather than having left open an invitation to future problems, you may have paved the way for future work.

Guiding Principles

Even without the help of an unfair contract, enough unexpected problems arise in design and construction that a good deal of caution seems advisable with problems that can be anticipated. With this objective in mind, here are a number of principles you may want to consider the next time the ownership of documents question arises in connection with one of your contracts:

1. If your contract is silent on the subject, most courts will construe the intent to have been a transfer of ownership to your client. If this is not your intent, it is important that you include in your contract a provision that makes clear that the documents belong to you.

2. Such a provision needs to be care-

fully drafted, and your own attorney is in the best position to suggest language that will most appropriately meet your needs. There are, however, three basic considerations you may want to address:

- The provision should identify the documents as instruments of professional service.
- It should make clear that the documents are intended for use only in connection with the project which is the subject of the agreement.
- It should hold you harmless and indemnify you against all losses, damages, and costs arising out of any use or reuse of the documents, by the owner or by agents of the owner, not specifically authorized by you in writing.

3. You might want to further protect your interests by copyrighting your plans and specifications. It requires only that you affix, "Copyright 198__," to your documents, followed by the name of your firm.

4. Should you be unsuccessful in convincing the owner that your plans and specifications properly belong to you, recognize that in giving in you are making a major concession. You have a reasonable right to expect something in return. At a minimum, this might include the three contractual considerations identified above.

5. Recognize, too, that it makes no sense at all for you to agree to transfer ownership in the documents at any point other than completion of construction. As long as you retain control, you will be in a position to help your client fully meet his or her obligations under your agreement. These include keeping you on the job through the end of the construction phase of the work and paying you for the services you render.

6. Finally, you may want to consider a "belt and suspenders" approach designed to discourage all of those unknown others who might be tempted to use your work product without your knowledge. Some architects and engineers seek to do this by including a statement, on each sheet of their drawings and on the cover sheet to their specifications, warning against unauthorized reuse. Considering the risks involved both belt and suspenders may well be called for.

From *The Professional Liability Perspective* June, 1991

LOUISIANA ENGINEER/AUGUST 1991

**Consulting Engineers Section
Warren J. Wilder
CEC/L Executive Director**



Capital Investment — Key to Solving Infrastructure Problem?

America's deteriorating infrastructure is under scrutiny. Both the public and Congress realize the need to revitalize the nation's transportation, water supply, wastewater, public buildings, and other public facilities in which several hundred billion dollars have already been invested.

Cost estimates to rebuild public capital facilities have been projected in excess of \$3 trillion. However, accurate information does not exist to adequately set infrastructure needs or costs.

The current "unified" federal budget system, which does not differentiate between operating expenditures and capital investments, fails to provide a uniform comprehensive inventory of the nation's existing water systems, bridges, buildings, and highways.

The absence of a mechanism to document normal and accelerated public capital facility deterioration has created an information vacuum which fosters haphazard, inefficient, and politically expedient funding of public works development by all levels of government.

Congressmen William Clinger (R-Pa.) and Robert Edgar (D-Pa.) co-authored legislation last year and this year (HR 1244) which ACEC believes contains logical methods for developing a national infrastructure program to systematically assess and prioritize public works development paced with economic growth.

The legislation requires inclusion of an enhanced capital investment analysis as part of the President's "unified" federal budget. This analysis would list the government's major capital requirements by program and predict anticipated costs for repair, maintenance, and replacement of the nation's capital stock.

The development of a uniform assessment system to be used by all federal agencies would standardize criteria for projecting current and future facilities costs. It would also enable the federal

government to inventory its total capital investment.

ACEC President Shelby K. Willis, Bucher, Willis & Ratliff, Salina, Kansas, in testimony presented before the House Subcommittee on Economic Development this past April, endorsed the concept of a capital investment budget as the proper mechanism for developing a coherent, consistent public works policy.

Willis called the capital investment budget a "first step" which "will provide the proper framework for the planning, assessment, priority ranking and financing decisions needed to conduct the public work development process in an organized responsible manner." He stressed that the lack of consistency in program support and funding at the federal level prevents states from optimizing resources committed to public capital investment requirements unique to their needs.

Also in April, ACEC cosponsored the Congressional Symposium on Federal Capital Budgeting and the U.S. Public Infrastructure in Washington. The workshop, attended by 12 members of Congress and more than 100 representatives of Congressional offices, federal agencies, and industry, was instrumental in opening up dialogue between Congress and the Office of Management and Budget, which is responsible for cataloging the condition of public facilities within each federal agency program and presenting the public facility report as part of the federal budget.

The dialogue resulted in unanimous approval by the House Public Works and Transportation Committee of a modified bill—the Federal Capital Investment Program Information Act—on May 11. Additional hearings are pending in the House Government Operations Committee.

Stacy Richards
Staff, ACEC
Governmental Affairs

Private Sector Survey Releases Report on Federal Construction Management

A three-year cost savings plan totaling approximately \$5.4 billion by improving government construction procedures has been outlined by the President's Private Sector Survey on Cost Control in the Federal Government. The message is emphasized in a recent report on federal construction management issued by the Private Sector Survey—sometimes referred to as the Grace Commission, headed by Peter Grace of W. R. Grace & Company.

The Commission has prepared some 36 reports on economy in the federal government. Ed Bajer, ACEC's director of energy, served on the task force that prepared the construction management report.

The report makes strong recommendations for contracting out engineering service requirements of federal construction agencies. The task force reviewed over a dozen case studies on federal construction projects and encouraged the U.S. Army Corps of Engineers, which currently contracts out 14% of its civil works program, to "work toward increasing" that figure to 75%.

Perhaps the most far-reaching of the report's recommendations is one that states "a clear preference for the for-profit private sector should be reinstated in OMB (Office of Management & Budget) Circular A-76" (the federal directive concerning contracting out) and "a vigorous enforcement program should be initiated." This would apply to all federal agencies that are involved with construction.

The task force found the Brooks Law (PL 92-582) to be "an economical and successful" procedure. However, the Corps of Engineers, in responding to task force inquiries, contended that, because of the Brooks Law, A-E services are exempt from an A-76 cost comparison study although the Corps continues to contract out some of its work.

Continued on page 18



NÔTRE MÉTIER

**Paul L. Landry, P.E., Executive Secretary
Louisiana State Board of Registration for
Professional Engineers & Land Surveyors.**



Rule Changes

The following was published in the Louisiana Register, Vol. 9, No. 6, June 20, 1983:

- I. "In accordance with the Notice of Intent published in the March, 1983 *Louisiana Register* the Board of Registration for Professional Engineers and Land Surveyors hereby adopts the following Rule:

LAC 19-3:11 Expiration and Renewals (37:697)

"Certificates of Registration and Certification for Individuals or Corporations shall expire on the date specified on the Renewal Certificate and shall become invalid after that date unless renewed."

- II. The Board of Registration for Professional Engineers and Land Surveyors, at its regular meeting on May 31, 1983, voted to allow Administrative Code 19-3:9.3 Approval to Take the Examination in the Principles and Practice of Engineering to remain as follows: "An applicant who meets the other requirements for registration as a Professional Engineer may be permitted to take the examination in the principles and practice of engineering in the branch in which he/she seeks registration. The Board may permit an applicant to take this examination one year before the applicant is eligible for registration."

Individual Renewal

The revised Louisiana Administrative Code 19-3:11, *Expiration and Renewals* (37:697), provides that certificates of registration and certifications shall expire at a time specified by the Board and shall become invalid after that date unless renewed.

Previously the Board has administered this provision on an annualized basis with all licenses expiring on the last day of each year. The Board has been gratified to note the increase in the number of registrants in the State of Louisiana. This success, however, has caused certain administrative problems which can be improved by changing the expiration dates to provide for designated registrants to have their license expire on a quarterly basis rather than all at the end of the year.

In order to implement this new procedure, the renewal notices, to be mailed out October 15 thru November 1, 1983, will provide for expiration dates on a quarterly basis. Those

Professional Engineer licenses designated to expire on June 30, 1984 will be billed ten dollars (\$10.00) (six month fees); the September 30, 1984 group will be billed fifteen dollars (\$15.00) (nine month fees); the December 31, 1984 group will be billed the annual fee of twenty dollars (\$20.00); and the March 31, 1985 group will be billed for twenty-five dollars (\$25.00) (fifteen month fees). Following this billing cycle, future billings will be the normal annual fee for all registrants. The revised billing cycle will start during 1984 and all expiration and renewal notices will be sent out as indicated by the quarterly billing register.

The fees for Professional Land Surveyors are the same as for Professional Engineers and expiration and renewals will be treated in the same manner as indicated above for Professional Engineers. In the event that an individual is registered as a Professional Engineer and Land Surveyor, the fees as indicated above will be doubled.

The renewal fee for an Engineer-In-Training or Land Surveyor-In-Training is ten dollars (\$10.00), or one-half of the fee for Professional Engineer or Land Surveyor. Renewal fees for 1984 will be prorated depending upon the quarter in which the EIT was assigned for billing purposes.

It is hoped that all registrants will understand the need for this administrative change and will cooperate fully in its implementation.

Disciplinary Action

The Board ordered, adjudged and decreed that a Professional Engineer, a Registrant of the Board, was guilty of misrepresentation (Louisiana Revised Statute 37:698 A (2)) in the practice of Land Surveying in connection with the preparation of a subdivision plat for Cypress Bend Subdivision, Rapides Parish, Louisiana during or around the month of January, 1980, in that the Registrant:

- Affixed his signature and seal to a Land Survey plat for the Cypress Bend Subdivision. As a Professional Registered Civil Engineer, he was not qualified to prepare, sign and seal Land Survey plats.
- The Cypress Bend Subdivision Land Survey plat contained numerous errors, including but not limited to gross errors in a number of stated calls of distances.
- Failed to stake permanently or failed to

cause to be staked permanently, on the ground the survey presented in the above reference plat as was required in Section 33:5051 of the Louisiana Revised Statutes.

- The conduct referred to in items (a) thru (c) above caused financial loss to the owners of Cypress Bend Subdivision and to the owners of lots of said subdivision, because a subsequent survey of said subdivision and lots had to be performed at an additional expense to said owners.

Following a vote by the full Board it was ordered that:

- There be a private reprimand.
- The results of the hearing to be published in the Louisiana Engineer magazine without stating the name of the Registrant.
- Furthermore, that the Registrant's employer be notified of the actions taken by the Board.

NEW ORLEANS, LOUISIANA on the 31st day of May, 1983.

Disciplinary Action

A Professional Engineer, and Professional Land Surveyor, a Registrant of the Board, was convicted of a felonious act by a United States District Court by violating Title 18 of the United States Code, Section 2 and 1014 in that he knowingly made and caused to be made false statements in an application for a loan to a National Bank, which bank was insured with the Federal Deposit Insurance Corporation, for the purpose of influencing the action of said bank to approve said loan.

THE BOARD ORDERED, ADJUDGED AND DECREED that the Registrant was convicted of a felony and thus is subject to the disciplinary provision of Louisiana Revised Statute 37:698 A (3).

Following a vote of the full Board it was ordered that the certificate of registration of the Registrant as a Professional Engineer in Civil Engineering and as a Professional Land Surveyor be suspended until such time as the conviction is reversed or overturned, or until the completion of his probationary period whichever occurs first.

NEW ORLEANS, LOUISIANA on the 31st day of May, 1983.

LOUISIANA ENGINEER/AUGUST 1983

Disciplinary Action

A Professional Engineer, Registrant of the Board, was convicted of a felonious act by a United States District Court by violating Title 15 of the United States Code, Section 1 (Sherman Act), in that he engaged in a combination and conspiracy in unreasonable restraint of interstate trade and commerce.

The Board ordered, adjudged and decreed that the Registrant was convicted of a felony and thus is subject to the disciplinary process of Louisiana Revised Statute 37:698 A (3).

Following a vote of the full Board it was ordered that the certificate of registration of the Registrant as a Professional Engineer in Civil Engineering be revoked.

NEW ORLEANS, LOUISIANA on the 31st day of May, 1983.

BOARD MEETING NOTICE

The Louisiana State Board of Registration for Professional Engineers and Land Surveyors will hold its 1983 regular meetings at 1055 St. Charles Avenue - Suite 415, New Orleans, La. 70130 on the following dates:

1983		1984	
Sept. 27	Jan. 24, 25	July 24	
Nov. 22	Mar. 27	Sept. 25	
	May 22	Nov. 27	

EXAMINATION SCHEDULE

	SPRING Apr. 14, 1984 Apr. 20, 1985	FALL Oct. 29, 1983 Oct. 27, 1984
Fundamentals of Engineering Examination (8 hrs.)	X	X
Fundamentals of Land Surveying Examination (8 hrs.)	X	X
Principles and Practice of Engineering (8 hrs.) Civil (Including Structural & Sanitary), Mechanical, Chemical, & Electrical	X	X
Agricultural, Industrial, Metallurgical, Mining & Petroleum		X
Principles and Practices of Land Surveying (4 hrs.)	X	X
Laws and Procedures of Land Surveying (4 hrs.)	X	

Apply no later than August 1, for the October examination and no later than January 15, for the April examination.

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COST

The fee per participant is \$200 for each course and includes the cost of textbooks.

REGISTRATION

To insure that each student will have an opportunity to participate in discussion, enrollment in each section will be limited to 30 students.

Classes will be organized Mon., Aug. 15, 1983 in Room 122A, LSU Medical Center, New Orleans - 7:30 PM and on Tues., Aug. 16, 1983 in Room 3136 CEBA Bldg., LSU, Baton Rouge - 7:30 PM.

Class sessions will be held in the University Medical Center at New Orleans, on the Baton Rouge campus, and in other cities throughout the state where there is adequate demand. To preregister for the classes complete the attached form and return.

AVAILABLE COURSES

- Course A — Modern Management
- Course B — Project Management with CPM/PERT
- Course C — Engineering Economy
- Course D — Financial Decision Making
- Course E — Automation and Computer Aided Manufacturing
- Course F — Basic Engineering Statistics
- Course G — Human Relations
- Course H — Cost Estimating
- Course I — Microcomputers for Decision Making

I wish to preregister for the course indicated. (Please show your first choice with a 1, second with a 2, etc. Show a single location choice only.)

COURSES OFFERED

- | | |
|--|--|
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| ☐ Project Management | ☐ Human Relations |
| ☐ Engineering Economy | ☐ Cost Estimating |
| ☐ Finance | ☐ Microcomputers |
| ☐ Automation | |

LOCATIONS

- ☐ Baton Rouge
☐ New Orleans
☐ Monroe
I cannot attend on the following nights:

M___T___W___Th___

.....
Please complete the following form and return it to the address below if you are interested in the fall program. (Classes will begin during the week of Aug. 29, 1983.)

MAIL FORM TO:

Dr. L. Mann
Industrial Engineering Dept., CEBA Bldg.
Louisiana State University
Baton Rouge, Louisiana 70803-6409

Name _____

Address _____ Phone _____

City & State _____ Zip _____

Board of Registration Writes all Clerks of Court

The following is a reproduction of a letter mailed to all Parish Clerks of Court from Paul L. Landry, P.E., Executive Secretary, State Board of Registration for Professional Engineers and Land Surveyors.

Gentlemen:

The Board has asked me to call your attention to two Acts that have effects on the receiving and filing for record any map, plat, or survey. These acts are Act 532 of 1970 and Act 568 of 1980.

Act 532 of 1970 reads as follows:

After September 1, 1970, no clerk of court, recorder of mortgages or register of conveyances or any other public authority shall receive and file for record any map, plat, or survey attached to and pertaining to the sale or mortgage of property, when such map, plat, or survey is required by either party, which does not have impressed thereon, and affixed thereto, the signature and seal of a registered Land Surveyor or Civil Engineer duly certified and registered in accordance with the provisions of Chapter 8 of Title 37 of the Louisiana Revised Statutes of 1950 by whom or under whose direct supervision said map, plat, survey or other document was prepared.

Failure to comply with the provisions of this section shall not invalidate any title to real property otherwise legally valid.

Act 568 of 1980 is concerned with the registration of persons as Engineers and Land Surveyors. It confirms 1970 amendments made to Act 73 of 1950 whereby the profession of Land Surveying was separated from Civil Engineering. Civil Engineers *can not* seal Land Surveying plats or practice Land Surveying in any way.

Thus Act 532 of 1970 should be considered as an act to prohibit any clerk of court, recorder of mortgages or register of conveyances or any other public authority from receiving and filing for record any map, plat, or survey pertaining to the sale of mortgage of property, which has not been *signed and sealed* by a *registered* Land Surveyor. A copy of the Registration Law for Professional Engineers and Land Surveyors (LARS 37:681 thru 37:703) is enclosed herein. Also enclosed

is a copy of the Rules for Professional Engineers and Professional Land Surveyors (Louisiana Administrative Code 19-3:1 thru 19-3:13). One of the rules of the Board LAC 19-3:10 *Rules Governing the Use of Seals* requires that registrants of the Board, Professional Land Surveyors seal and sign their work such as plats, surveys or maps. In other words, all plats, maps or surveys that are filed with the clerk of court *must* bear the seal of a *registered Professional Land Surveyor*.

The Board solicits your assistance to see that the provisions of Act 532 of 1970 as modified by Act 568 of 1980 are enforced in your parish. Your refusal to file a plat, map or survey that does not contain the seal of a Professional Land Surveyor, a registrant of the Board, will go a long way toward assisting the Board in protecting the public. The Board appreciates your cooperation in this matter.

Very truly yours,
Paul L. Landry, P.E.
Executive Secretary

P.S. Also enclosed is the "Addendum Biennial Report" which contains a roster of Professional Land Surveyors. Please call the Board office if you have any questions.

IN MEMORIAM

NUMA J. HELWICK, P.E.

Numa J. Helwick, P.E., a member of the Louisiana Engineering Society since 1936, died on May 27, 1983, after a lengthy illness. Mr. Helwick was a lifelong resident of New Orleans. He was valedictorian of the 1914 class of Robert E. Lee High School and attended Tulane University.

Mr. Helwick was an owner of the American Heating and Plumbing Co. He was a charter member of the Delta Chapter of the American Society of Heating and Ventilation Engineers, American Society of Refrigeration Engineers and the National Association of Practical Refrigeration Engineers.

Mr. Helwick is survived by his wife Blanche Pauline Asbury Helwick, a brother Joseph L. Helwick, Jr., and three

sisters: Enola H. Miller, Anna H. Smith and Rowena H. Lambert. He will be sadly missed by his many friends and family.

IN MEMORIAM

BEN MORGAN BURNS, JR.

Ben Morgan Burns, Jr. died on January 3, 1983 at John Sealy Hospital (burn center) in Galveston, Texas. Mr. Burns received his B.S. degree in mechanical engineering from Louisiana State University in 1981. He was a member of Pi Tau Sigma Mechanical Engineers and Alpha Tau Omega Social Fraternity.

Ben is survived by his wife Lisa Bell Burns, his parents, Mr. and Mrs. Ben Morgan Burns, Sr., and one brother, Tom Burns. Our sympathy is extended to the family.

IN MEMORIAM

CLIFFORD M. COCKRELL, P.E.

Clifford M. Cockrell, P.E., a member of the Louisiana Engineering Society since 1945 and a life member since 1975, died recently in New Orleans.

Mr. Cockrell retired from Freeport Sulphur, a division of Freeport McMoran, Inc. in 1968 after 38 years of work in engineering design, maintenance and construction. He was a consultant for the company at the time of his death.

An authority on transporting molten sulphur, Mr. Cockrell held several patents in the field. He designed the first liquid sulphur barge in 1946 and continued to improve liquid tank designs. Because of his pioneering work, most of the sulphur tonnage formerly moved as bulk sulphur is now handled in molten form.

Mr. Cockrell received the James M. Todd Technological Accomplishment Award of the Louisiana Engineering Society in 1966, the American Welding Society's District Meritorious Certificate in 1967 and the American Welding Society's Hobart Medal in 1969.

In 1971 he was elected a fellow in the American Society of Mechanical Engineers.

He is survived by his wife, Alleen Lewis Cockrell.

Louisiana Engineering Foundation (LEF) Plan "A"

In August 1982, Plan "A" of the Louisiana Engineering Foundation was launched. The plan sought to retire the \$65,000 mortgage on its headquarters building at 1213 Nicholson Drive, Baton Rouge. Originally LEF was paying 16% interest on the \$65,000 note. At present LEF is paying 11.95% on a \$41,850 mortgage. As of July 18, twenty-one engineers and organizations have subscribed to Plan "A". They are:

**Louisiana Society of Professional Engineers in Civil Service,
Baton Rouge**

**John C. Copes, P.E., Baton Rouge
Cappel, Tousley, Montgomery &
Moses, New Orleans**

**Meyer, Meyer, LaCroix & Hixson,
Alexandria**

**Walk, Haydel & Associates, New
Orleans**

**Domingue, Szabo & Associates,
Lafayette**

**Demopulos, Ferguson, Inc.,
Shreveport**

**Paul Landry, P.E., New Orleans
John J. Guth, P.E., Shreveport
Consulting Engineers Council of
Louisiana, Baton Rouge**

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Rouge**

**John E. Ritter, P.E., Baton Rouge
Don Chesson, P.E., Baton Rouge
Louis J. Capozzoli, P.E., Baton
Rouge**

**Alex Theriot, P.E., Baton Rouge
Charles Coyle, P.E., Shreveport
Lamon L. Moody, Jr., P.E., Baker
E. J. McNamara, P.E., New
Orleans**

**Bovay Engineers, Baton Rouge
Baton Rouge Chapter, LES
Waldemar S. Nelson, P.E., New
Orleans**

LEF is very appreciative of the twenty-one subscribers but we need forty-two

more. Please consider joining Plan "A". Send a check for \$1,000 to LEF as a no interest loan; it will be repaid.

LEF is a tax-exempt organization founded in November 1978 by the Louisiana Engineering Society. It was created to assist the engineering profession in Louisiana. LEF has presented scholarships to each of the accredited engineering universities in Louisiana. In 1982, a \$1500 scholarship was presented to a post-graduate engineering student who plans to teach engineering in Louisiana upon graduation. Plans are underway to award a similar 1983 scholarship. Other activities planned are seminars to keep engineers abreast of the latest developments in engineering.

Please consider Plan "A" or financial assistance to LEF. It is your profession and LEF is one way you can help your profession in Louisiana. Make checks payable to LEF and mail to P.O. Box 2683, Baton Rouge 70821.

SPEC SHEET

(Continued from page 13)

The report concluded that federal agencies were effectively limiting contracting out by "claiming numerous exemptions from doing so and preparing inaccurate cost comparisons."

The task force was not able to concretely determine how heavily federal agencies are involved in construction services. The Commission thus recommended that an inventory of federal construction services including construction, design, engineering, surveying, and drafting be conducted to determine the federal government's actual involvement in the construction industry.

The task force found that the Veterans Administration contracted out 108 A-E projects, totaling \$538 million in fiscal year 1978-79, versus using in-house design personnel on 24 projects worth \$24.7 million that year.

The task force report also indicated that federal construction projects are burdened by costs higher than those of the private sector, in part because there are no incentives for federal employees to hold down costs. The report noted that individual projects, as well as entire programs, have become burdened with costly requirements, yielding low or marginal benefits to the public.

While the recommendations of the panel are not binding, they are to be used as guidelines for further action by Congress and the Executive Branch.

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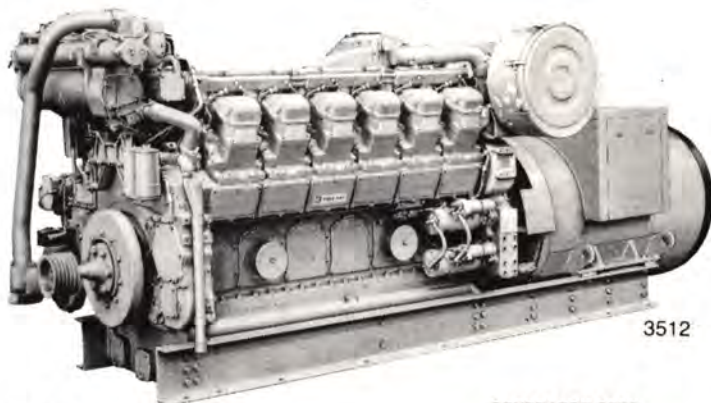
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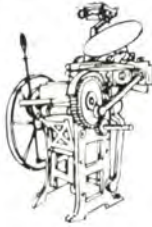
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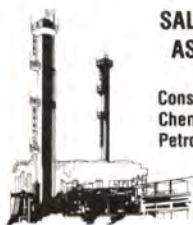
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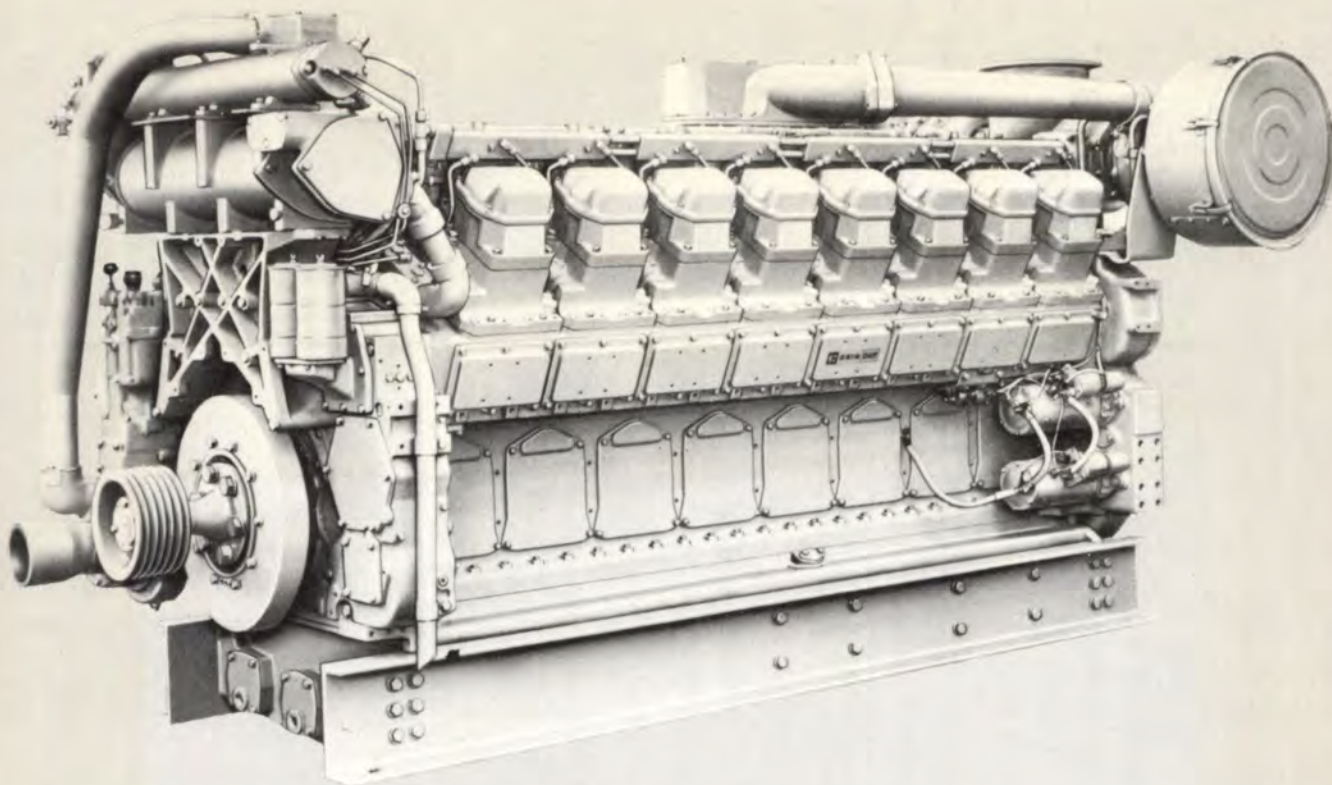


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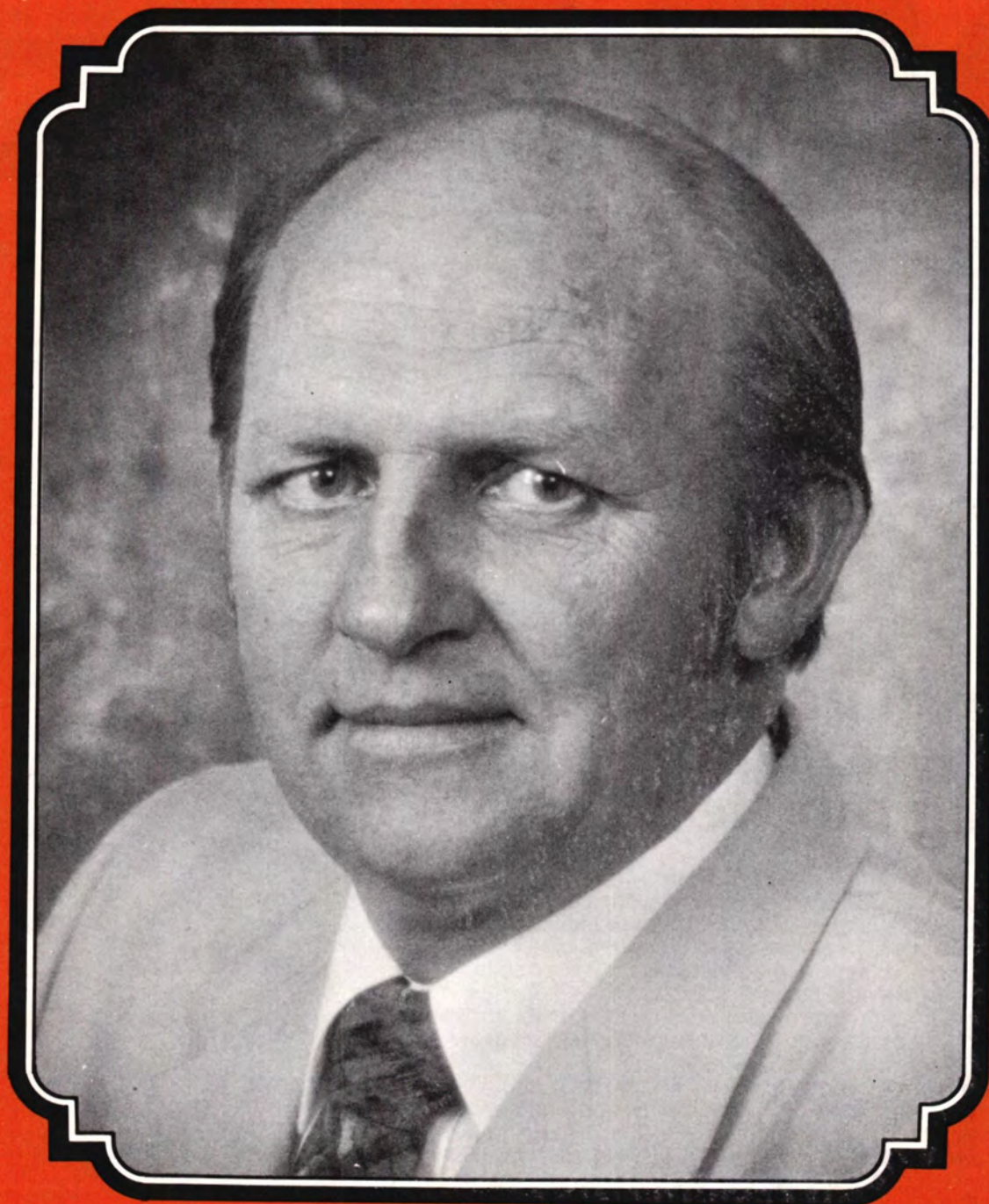
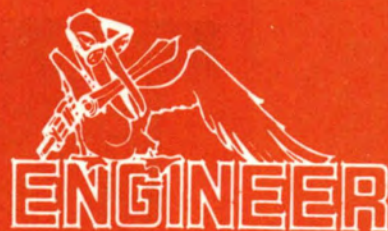
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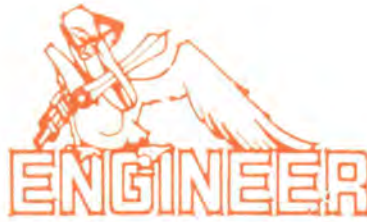
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ABOUT THE COVER

Vernon F. Meyer, P.E. has been selected President of the Consulting Engineers Council of Louisiana. See complete story on page 8.

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What Is Nominal?



Thomas Dudley Hixson, P.E.
LES President

Official NSPE policies contain a provision stating that an engineer shall not give more than a "nominal" amount as a campaign contribution to a candidate for public office, or to a political party, when said candidate or political party may have influence or control over a public agency for which the engineer may provide, or offer to provide, professional services. Bringing rise to this policy was the inclusion of an earlier version of the following in the NSPE Code of Ethics:

"Engineers shall not offer, give, solicit or receive, either directly or indirectly, any political contribution in an amount intended to influence the award of a contract by public authority, or which may be reasonably construed by the public of having the effect or intent to influence the award of a contract. They shall not offer any gift, or other valuable consideration in order to secure work. They shall not pay commission, percentage or brokerage fee in order to secure work except to a bona fide employee or bona fide established commercial or marketing agencies retained by them."

In several ethics cases brought before the NSPE Ethics & Professional Conduct Review Board, the word "nominal" has been interpreted differently depending on the various circumstances surrounding each case. The truth is, the word "nominal" cannot be finitely quantified. Dictionary definitions of "nominal" include: existing in name only; not real or actual; so small, slight, or the like, as to be hardly worth the name, as a "nominal" price.

It is certainly not very enlightening to be bound to a Code of Ethics by such a non-entity as the word "nominal." In truth, it should be deleted from the policy and replaced with some meaningful and concise guidance to our profession. As it now stands, the door is left open to excessive speculation, latitude and interpretation.

It should not be too presumptuous to think that our profession is capable of adopting a "standard of giving" which would not be held suspect.

We are encouraged on every front to participate in the political process and to support the candidate of our choice. This is as it should be. It is the American way. But when does the amount of a contribution become more than nominal? It may well be when the contribution exceeds the established legal reporting amount. When the amount of an individual or business campaign contribution is made public information, there are many who will judge the contribution as being excessive, or given in return for special consideration or favors. Our profession does not need this kind of publicity!

The reporting limits for campaign contributions in the State of Louisiana are as set forth in the Louisiana Election Code under R.S. 18:1481 to 18:1511.11 under the heading "Election Campaign Finance," as amended in 1982, by Act No. 266. The Code requires that the name of an individual or business that gives an amount exceeding the reporting limit shall be filed in a public report, thus available for public scrutiny. The currently established reporting amounts are defined as follows: (a) one thousand dollars for any major (statewide) office; (b) five hundred dollars for any district office, and (c) two hundred fifty dollars for all other offices.

If you are not familiar with the publications mentioned herein, it is suggested that you obtain copies through your attorney or from a local library.

We, as a profession, have full responsibility to remove any cloaks of suspicion resulting from our actions. Is there any good reason why we should not remove our heads from the sand, and impose upon ourselves the limitation that no campaign contribution may exceed the legally established reporting amount?

High School for the Engineering Professions Is A Reality

The High School for the Engineering Professions is a secondary school designed to provide a preparatory program for the college-bound student who may wish to major in some phase of engineering. The high school is located within Scotlandville Magnet High School in Baton Rouge. This "school-within-a-school" concept was chosen because it is not economically feasible to maintain all of the support facilities for a school of only 60 to 80 students, or for the eventually anticipated 400.

The school was opened this year with 82 students, 40 ninth graders and 42 tenth graders. The Baton Rouge Chamber of Commerce is commended for spearheading this outstanding addition to the school system of Baton Rouge. The Louisiana Engineering Society and the Louisiana Engineering Foundation wholeheartedly endorsed the concept of this operation.

The Chamber first researched the successful application of the High School for Engineering concept at the Houston School District. All of Houston's school graduates entered college. Even more dramatic is the fact that a number of the nation's prestigious colleges seek the graduates. The Chamber mounted a successful campaign for donations to fund and implement the high school in the East Baton Rouge Parish School System. A Technical Advisory Committee has been busy the last several months assisting school personnel in designing curriculum, computer facilities, engineering laboratory facilities and related activities. Members of the committee are: Richard Lee, Chairman, Exxon; Dr. Clarence Hall, LSU; Militiades Dimitriadis, parent; John Knighten, parent; Morgan Watson, parent; John Kancavicus, parent; Larry McGhee, Southern University; Hugo Marrero, P.E., Marrero, Couvillon & Assoc.; Roland Carson, Dow Chemical, USA; Cooper Harrell, Baton Rouge Bank; Lucy Priddy, Ethyl Corp.; Margina Spencer, Chamber of Commerce; Bob Wales, CPA, Hawthorn, Waymouth & Carroll; Bill Rainey, Exxon; John Jagot, D.H. Holmes; Roger Seals, P.E., LSU.

The High School for the Engineering Professions is a secondary school with a major emphasis on applied science and mathematics. This program will provide

the student with an excellent background for majoring in mathematics, the sciences, business, law, medicine or any number of technical disciplines.

The program was designed to attract students who have the talents and abilities indicative of success in an engineering or technical field, and to provide those students with a superior preparation that will enable them to enter and succeed in the most prestigious engineering schools in the country. The graduates of this program should be resourceful, self-motivated, well-rounded young men and women able to analyze new situations, make well-thought-out decisions, and communicate their ideas effectively. These people should be problem solvers.

The school is located on a 35.6-acre campus at 9870 Scotland Avenue. The site presently contains 11 buildings, including a 1,200 seat auditorium, a library of over 11,000 volumes, an engineering laboratory building, a computer laboratory, a cafeteria, and two major classroom buildings. Large vacant areas on the campus will allow construction if needed.

A major problem faced by the school is the unusual facility cost. Every student is taking at least one (more often two or more) laboratory course each semester and these labs require extensive and expensive equipment, well in excess of that required in the traditional academic preparatory high school. The school board has undertaken the renovation of the computer room, science labs and the engineering lab building, but generous donations from industry and the community are necessary if these labs are to be adequately equipped.

The computer-science laboratory provides facilities to educate students in the utilization of computers as a tool in the engineering/business professions. A mini-computer with hard disc storage capacity is the central computer. Software is included to allow instruction in several different programming languages utilized in the technical professions.

This system provides maximum capability for instruction to students at all levels, and duplicates a very successful system installed in the Houston High School Engineering program.

The High School for the Engineering Professions is utilizing some of the newer individualized instructional techniques that have been demonstrated to be particularly effective with high-ability students. Individually Guided Education permits high-ability students to progress as fast as they are able to demonstrate mastery of the subject material.

A faculty advisor program assigns each teacher a number of students to be appraised and advised on a weekly basis. Through these weekly meetings the faculty member gets to know the student's strengths, recognize his problems, and analyze his difficulties when the student is not fulfilling his potential.

The faculty was selected from teachers whose track records showed excellence in their field of study, innovation in their teaching style, and dedication to the engineering concept. An advisory board consisting of professors from the schools of engineering at LSU and Southern as well as leaders of local industry closely supports and advises the faculty.

To enter the Magnet High School for the Engineering Professions a student must have a sincere interest in an engineering or technical career and have displayed an aptitude for mathematics and creative or abstract thinking. An overall average of 3.0 (on a 4.0 scale) for the previous five semesters is desired (additional achievement level and aptitude testing may be required). Promising students may be admitted on a provisional basis. Parental consent is required.

Our country has entered a new phase of industrial and human productivity guided by people who manage, create and apply technology. Professional and technical positions have become the fastest growing segments of the labor force, and current indicators predict this situation will continue to exist into the next century. The Louisiana Engineering Society, the Baton Rouge Chamber of Commerce and the East Baton Rouge Parish School Board believe the Magnet High School for the Engineering Professions will be a big step in meeting a need for professional and technical training for tomorrow's leaders.

CURRICULUM

The curriculum of the High School for the Engineering Professions is rigidly structured to provide the student with the courses required to be successful in any engineering school in the country. With the current six-hour day, elective offerings are curtailed (none are available in the ninth and tenth grades).

The schedules for the ninth and tenth grades are:

Grade 9	Grade 10
English	English
Algebra I-E	Geometry -E
Physical Science I-E	Biology - E
Computer Science I-E (basic and fortran)	Computer Science II-E (1 semester)
Basic Engineering Graphics	Creative Design (1 semester)
Physical Education	You and the Law
	Physical Education

Courses not directly related to the engineering curriculum will be taught in the regular magnet setting. The "E" courses will be taught with an engineering emphasis.

Adjustments to these schedules have been made for incoming tenth graders who have not had all the required ninth-grade courses.

Eleventh and twelfth grade courses that have been tentatively proposed:

Grade 11	Grade 12
English	English
Algebra II-E	Trigonometry/Elementary Analysis
Chemistry - E	Physics - E
Computer Science III-E (1 semester)	Computer Science IV-E (1 semester)
Engineering Lab I (1 semester)	Electronics I-E (1 semester)
American History	Engineering Analysis I (1 semester)
*Elective or Free Enterprise Elective	Elective or Free Enterprise Elective

* Engineering electives include Introduction to Architecture, Engineering Analysis II, and Electronics II. Other electives may be taken with the regular magnet program.

The High School for the Engineering Professions has the equivalent of a six-period day (four 90-minute periods per day meeting a modular schedule). The possibility of increasing to a seven-period day will be considered next year. As it stands, this curriculum provides the student with four credits in English, four credits in math, four credits in science, 2½ credits in computer science and 3½ credits in pre-engineering laboratories and engineering graphics.

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Profile of Vernon F. Meyer, P.E.

Vernon F. Meyer, P.E., has been elected 1983-1984 President of Consulting Engineers Council of Louisiana, Inc. He is President of the three corporations in The Meyer Group: Vernon F. Meyer & Associates, Inc. (Surveying), Meyer & Associates, Inc. (Engineering), and Meyer, Joiner & Associates, Inc. (Architecture). The Meyer Group is located in Sulphur, Louisiana.

After obtaining his degree in civil engineering from Iowa State University in 1959, he worked five years for a Louisiana engineering firm where he specialized in surveys, preliminary studies, design and construction of paving, drainage, wastewater and waterworks projects. In 1964 he went into business for himself under the name of Vernon F. Meyer and Associates.

While continuing his personal involvement in engineering projects, he broadened his base by hiring eminently qualified surveyors, architects and engineers and developed an ever-increasing capability in architecture, engineering, planning, surveying, drafting, design and related fields.

In 1974 he established Vernon F. Meyer and Associates, Inc. as a separate surveying firm and incorporated Meyer and Associates, Inc., as an Architect-Engineering firm. With architectural capability increasing, he eventually established Meyer, Joiner and Associates, Inc., as a separate corporation in 1979.

By forming the four mutually supportive corporations in The Meyer Group, Vernon F. Meyer has managed to develop an in-house capability for complete engineering-planning services for most projects while his association with nationally known specialty firms provide total service capability for his clients.

He has displayed exceptional leadership and management capabilities in expanding a one-man firm that completed three projects in 1965, to three inter-dependent corporations today with over 170 members engaged in over 300 projects.

While managing, establishing policy, and instilling professional pride for excellence in his expanding organization,

Vernon F. Meyer has remained active in his chosen field, personally designing and/or supervising some 50 engineering projects to completion since 1965.

The full capability of the three corporations in The Meyer Group are available to each client. As he puts it, "One contract gets you three corporations," a concept which insures optimum internal management and maximum service to clients.

A registered professional engineer in both Louisiana and Mississippi, Meyer is affiliated with several other professional societies including the Louisiana Engineering Society, National Society of Professional Engineers, American Society of Civil Engineers, and the Louisiana Society of Professional Surveyors.

Meyer is married to the former Carolyn Armes. They have three children: Tijie, who is a freshman attending Louisiana Tech, Ruston, La.; Tim, who is quarterback of the Westlake High School Rams; and Chris, who attends Westlake High where he plays freshman football. They are affiliated with the First Baptist Church of Westlake, Louisiana.

Biographical Sketches of Board Members

DON W. CHESSEON, P.E., Don Chesson & Associates, Inc., Baton Rouge, La., as graduated from Louisiana State University in 1943 with a B.S. in Mechanical and Electrical Engineering. He and his wife, Mary Ann, have four children. He holds membership in several other professional societies including LES, ASHRAE, CSI, NFPA, and the Baton Rouge Electrical League. He currently serves CEC/L as its President-Elect.

ANDSEY J. AUCOIN, P.E., is President Aucoin & Associates, Inc., Eunice, La. He received a B.S. in Civil Engineering from Louisiana Tech University in 1949. He is a member of Louisiana Engineering Society, Louisiana Society of Professional Surveyors, and the Parish Engineers Association. He and his wife, Mary Jo, have five children. He was elected Vice President of CEC/L.

ERRY A. MCKEE, P.E., is owner and Chief Executive Officer of Professional

Engineering Consultants, Baton Rouge, La. He was elected Treasurer of CEC/L. He was graduated from LSU in 1958 with a B.S. in Civil Engineering and holds professional licenses in Mississippi, Alabama, Texas, Missouri and Minnesota. McKee is also a member of ASCE, NSPE, LES (1983-1984 Baton Rouge Chapter President), WPCF, and the AWWA. He serves on the Board of Directors of the Baton Rouge Chamber of Commerce. He and his wife, B.J., have two children.

PETER R. QUIRK, P.E., is Executive Vice President of Walk, Haydel & Associates, Inc., New Orleans, La. He received a B.S. in Electrical Engineering from LSU in 1959 and holds membership in NSPE, LES, the Instruments Society of America and the Engineers Club of New Orleans. He served as Section Chairman for the 1979-1980 United Way Campaign. He and his wife, Marilyn, have six children. Quirk was last year's CEC/L President and is currently serving as National Director.

BILL M. FERGUSON, P.E., is Board Chairman and co-founder of Demopolis & Ferguson, Inc., Shreveport, La. He was graduated with a B.S. in Civil Engineering from Texas A&M University in 1943. He holds professional licenses in Texas, Oklahoma and Kentucky. Ferguson is affiliated with a number of professional organizations including LES, APWA, Society of American Military Engineers, American Road and Transportation Builders Association. He was elected to serve CEC/L as Member-at-Large. He and his wife, Frances, have three children.

LAUREN L. WREYFORD, P.E., Wreyford & Associates, Inc., Shreveport, La., attended Southern Arkansas University and was graduated from the University of Arkansas in 1958 with a B.S. in Electrical Engineering. He serves on the CEC/L Board as Shreveport Chapter Chairman. Wreyford is a charter member of the Arkansas Academy of Electrical Engineers. He holds membership in

LES, IEEE, and NSPE. He is a registered professional engineer in Arkansas, Texas, Oklahoma and Mississippi. He and his wife, Dorothy, have two sons.

GERALD A. DUBROC, P.E., President of Sellers, Dubroc & Associates, Inc., Lafayette, La., is the CEC/L Lafayette Chapter President. He received a B.S. in Civil Engineering from the University of Southwest Louisiana in 1960. He holds membership in LES, NSPE, ASCE, APWA, and the Louisiana Society of Professional Surveyors. Dubroc serves on the Greater Lafayette Chamber of Commerce, the Lafayette Regional Planning Commission, and is member of the Lafayette Lions Club. He and his wife, Diane, have six children.

JAMES R. BALLARD, P.E., Executive Vice President of C E Maguire, Inc., Alexandria, La., serves on the Board as Alexandria Chapter President (second year). He received a Bachelor of Engineering Science from Marshall University, Huntington, West Virginia, in 1958 and a Master of Decision Sciences from Georgia State University, Atlanta, in 1977. He is registered in 11 other states and is a member of NSPE, LES, ASME, and PEPP. In 1980, Ballard was named "Engineer of the Year" by Georgia PEPP and "Engineer of the Year" by Georgia Society of Professional Engineers. He was also named "Outstanding Chapter President" by that society in 1979. He and his wife have 3 children.

RALPH W. JUNIUS, JR., P.E., is Vice President of Linfield, Hunter & Junius, Inc., New Orleans, La. He attended Tulane University, University of Illinois and Louisiana State University where he received a B.S. in Civil Engineering in 1970, a M.S. in Civil Engineering in 1972 and a Juris Doctorate in 1974. He is currently the CEC/L New Orleans Chapter President and is a member of LES, NSPE, ASCE, Tau Beta Pi Association and the Louisiana Bar Association. He and his wife, Sandra, have five children.

CHARLES S. HEDGES, P.E., is Vice President and founder of Geotechnical Associates Corporation, Slidell, La. He was graduated from Georgia Tech with a B.S. in Civil Engineering in 1956 and a M.S. in Civil Engineering in 1961 and he specializes in Geotechnical Engineering. His wife, Patricia, is president of the corporation. Hedges is a member of ASCE, American Society for Testing and Materials, LES, and Sigma Xi. He is serving on the CEC/L Board as Member-at-Large.

ARTHUR E. MEYER, JR., P.E., partner in Meyer, Meyer, LaCroix & Hixson, Inc., Alexandria, La., was elected to serve as CEC/L Secretary. He received a B.S. in Civil Engineering from Louisiana Polytechnic Institute in 1956. He served as a Civil Engineering officer in the U.S. Air Force in the latter 1950's. He is a member of LES where he has served as President of the Alexandria Chapter and as State Chairman for Engineers in Private Practice. He is also a member of

NSPE and ASCE. Meyer is a certified fall-out shelter analyst and certified to perform value analysis of engineering projects.

C. KEITH CAPDEPON, P.E., C. Keith Capdepon, Consulting Engineer, Newellton, La., is serving as Monroe-West Monroe Chapter President. Professionally registered in Mississippi, as well as Louisiana, he received a B.S. in Mechanical Engineering from Tulane University in 1956. He is a member of NSPE, LES, Mississippi Engineering Society, and American Society of Military Engineers.

FLOYD L. BARBAY, P.E., President of Barbay Engineers, Inc., received a B.S. in Electrical Engineering from LSU in 1956 and a M.S. in Electrical Engineering in 1962. He was elected to serve as Member-at-Large. Barbay holds professional licenses in Texas, Oklahoma, Mississippi, and Arkansas. He and his wife, Dolly, have three children. He is also affiliated with LES, PEPP, and the American Legion.

JOHN S. MATHERNE, P.E., was elected to serve as Baton Rouge Chapter President. He is Vice President of Bovay Engineers, Inc. and is General Manager of the Baton Rouge Regional Office. He attended Tulane and received a B.S. in Mechanical Engineering in 1957. He and his wife, Joyce, have five children. Matherne is also a member of NSPE, LE, ASME, TAPPI.

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On Being an Expert Witness

Proving professional negligence is not easy. Few design solutions can be reduced to questions of right and wrong. The law recognizes that how you go about evaluating alternatives and formulating recommendations depends upon circumstances unique to every project you undertake. It requires only that you approach your work with a reasonable degree of professional care.

The results of your efforts may prove to be less than ideal, even less than satisfactory, and still have nothing to do with negligence. But, in those unfortunate situations in which questions of negligence are raised, it usually takes the help of another architect or engineer to put them to rest. No one else is in a position to form an opinion as to whether or not what was done falls within the broad range of alternatives that might be considered acceptable in the professional community in which you practice.

The "best" solution, whatever that might be, is not an issue. The issue is usual and customary care. As a defendant, this puts you in a favorable position. As an expert witness, it can put you on the spot, for serving as an expert can be a challenging task. It is not one to be

undertaken without a good deal of careful consideration.

An Implicit Understanding

The negligence standard is part of a social contract between the profession and the public that goes back to the earliest days of the English Common Law. The public recognizes the fact that what you do requires the application of professional skill and judgment, often in the face of great uncertainty. It acknowledges the possibility of errors, and it generally will not hold you responsible for the consequences of those errors, so long as you exercise reasonable care. You are not required to be perfect.

You entered into this contract when you accepted your license to practice. It is not a bad bargain, but it does impose certain obligations in return. The public expects you to use your expertise to protect the public health, safety, and welfare. It also expects that, in doing so, you will place the public interest ahead of your own.

At times, this can seem to be something of a heavy burden, for it includes an obligation to maintain constant vigil over the profession itself. In fact, society has nowhere else to turn—only those

with professional training and experience are in a position to differentiate between reasonable care and sub-standard performance. Thus, the inescapable need for some to serve in the role of expert witness.

Ethics and Egos

The challenge lies in maintaining a very delicate balance. Somewhere between the "conspiracy against the laity," of which the professions have been suspected since time immemorial (not always without cause), and the setting of standards so high only an elite few would measure up, there lies the common ground on which the interests of the profession and the interests of the public converge. It takes mature judgment, complete objectivity, and great care not to compromise one or the other (which, in the end, usually compromises both).

It is not impossible to be overcautious—to so qualify an opinion as to create more confusion than clarity. But, this is not how the balance is most often upset. There is something about being an "expert," about being called upon to explain difficult concepts before a captive audience weighing important issues, that has a way of feeding an already

Continued on page 19

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RULE CHANGES NOTICE OF INTENT

A formal notice of intent to revise portions of Louisiana Administrative Code 19-3 will be published in the *Louisiana Register*. Interested persons are invited to submit written comments or offer amendments to the proposed rule to the Board office, 1055 S. Charles Avenue, Suite 415, New Orleans, Louisiana 70130 at any time prior to November 10, 1983. Revisions are proposed on the following:

LAC 19-3:3.2.2

This rule now reads, "The applicant shall have passed at least sixty semester hours in college curriculum approved by the Board, including at least six semester hours of approved surveying courses, and shall have acquired at least two years of combined office and field experience in land surveying, satisfactory to the Board, with a minimum of one year of experience at the level of a party chief under the supervision of a registered land surveyor."

The Board intends to revise this rule as follows, "The applicant shall have passed at least sixty semester hours in a college curriculum or the equivalent thereof," approved by the Board, including at least six semester hours of approved surveying courses and shall have acquired at least two years of combined office and field experience in land surveying, satisfactory to the Board, with a minimum of one year of experience at the level of a party chief under the supervision of a registered land surveyor."

This rule change is necessary because the Board finds Approved Equivalent College Curriculum to be acceptable.

LAC 19-3:4.3.1

This rule now reads, "— such registered professional shall be a full-time active employee whose primary occupation or employment is with the firm.—"

The Board intends to revise this rule as follows, "— such registered professional shall be either an active employee (1) whose primary occupation or employment is with the firm on a fulltime basis or (2) whose secondary occupation or employment is with the firm, provided the firm is totally owned by one or more of the professionals whose registration is used to qualify the firm for certification. —"

This rule change will make it possible for a registrant of the Board (Professional Engineer or Professional Land Surveyor) to incorporate a firm, although he may not be a full-time active employee of that firm. For example, the current Board rule prohibits a professor at a university from incorporating a firm for purposes of providing engineering consulting services without employing a full-time active registrant of the Board. The Board is of the opinion that this is too restrictive.

LAC 19-3:7.2.3

This rule now reads, "Related technical curricula shall be those four-year technical

LOUISIANA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

STATEMENT OF RECEIPTS AND EXPENDITURES FOR THE YEAR ENDED JUNE 30, 1983

RECEIPTS

Registrations of Professional Engineers and Land Surveyors	\$ 46,815
Certification of Engineers in Training and Land Surveyors in Training	31,705
Registration of Corporations and Other Firms	12,199
Temporary Permits	1,160
Renewals Professional Engineers and Land Surveyors	336,920
Renewals Engineers in Training and Land Surveyors in Training	26,747
Renewal of Licenses of Corporations and Other Firms	17,914
Delinquent Fees - Penalties - Delinquent Licenses	14,380
Miscellaneous Receipts - Sale of Duplicate Certificates, Compendia, Licenses, etc.	899
Interest:	
U.S. Treasury Bills and Notes	11,643
Savings & Loan Assoc.	2,891
TOTAL RECEIPTS	\$503,273

EXPENDITURES

Board Members Per Diem	\$ 10,325
Board Members Expenses	30,292
Salaries - Supervisors -	53,769
Salaries - All Others	71,442
Retirement Fund	9,445
Insurance	4,242
Unemployment and FICA Taxes	2,233
Attorney Fees and Expenses	26,192
Auditing and Accounting Fees	4,200
Data Processing Service	6,182
National Council of Engineering Examiners Fees	1,535
National Council of Engineering Examiners Examinations	27,928
Proctors	8,780
Office Rent	16,800
Office Operations	12,173
Office Equipment	3,540
Printing	11,299
Postage	21,247
Telephone	4,144
NSF Checks	750
Fees Refunded	1,235
Partial Cost of Publishing THE LOUISIANA ENGINEER	23,796
TOTAL EXPENDITURES	\$351,549

curricula approved by the Board. Such curricula shall be accredited by the Accreditation Board for Engineering and Technology (ABET) or equivalent to such curricula. Unaccredited technology curricula outside of Louisiana are not approved."

The Board intends to revise this rule as follows:

"Related technology curricula shall be those four-year technology curricula approved by the Board. Such curricula shall be accredited by the Accreditation Board for Engineering and Technology (TAC) or equivalent to such curricula. Unaccredited technology curricula outside of Louisiana are not approved."

This rule change is necessary to clarify the difference between Accreditation Board for Engineering and Technology Accreditation for Engineering Degrees, Engineering Accreditation Commission (EAC) versus the Accreditation of Technology Degrees, Technology Accreditation Commission (TAC).

LAC 19-3:9.2

Approval to Take the Fundamentals of Engineering Examination.

This rule is now silent regarding non-Accreditation Board for Engineering and Technology (TAC) Graduates and non-related Science Graduates.

The Board intends to amend this rule by adding:

LAC 19-3:9.2.5 Non-Accreditation Board for Engineering and Technology (TAC) Graduates and non-related Science Graduates of a four year curriculum may be permitted to take the examination in the Fundamentals of Engineering provided:

9.2.5.1 Four years or more of progressive experience is obtained subsequent to the award of a Masters' degree in an Engineering curriculum acceptable to the Board.

9.2.5.2 Acceptable graduate programs are generally those which maintain Accreditation Board for Engineering and Technology (EAC) accreditation in Engineering at the basic or advanced level and which require removal of deficiencies in science, mathematics, engineering science, and engineering design as a pre-requisite to the graduate courses.

9.2.5.3 Non-ABET (TAC) or ABET (TAC) Technology Graduates and non-related science graduates cannot be certified as Engineers-in-Training. See LAC 19-3:3.3.3 for Professional Engineering registration requirements.

This rule change will make it possible for recipients of Master of Science Engineering degrees, or higher, to obtain Professional Engineering registration.

ANNUAL RENEWAL FEES

All individual registrants of the Board will receive renewal notices in later October or early November of this year. This year, as announced in the last issue of the *Louisiana Engineer*, page 14, registrants will be billed

EXAMINATION SCHEDULE

SPRING	FALL
Apr. 14, 1984	Oct. 29, 1983
Apr. 20, 1985	Oct. 27, 1984

Fundamentals of Engineering Examination (8 hrs.)	X	X
Fundamentals of Land Surveying Examination (8 hrs.)	X	X
Principles and Practices of Engineering (8 hrs.) Civil (Including Structural & Sanitary), Mechanical, Chemical, & Electrical	X	X
Agricultural, Industrial, Metallurgical, Mining & Petroleum		X
Principles and Practices of Land Surveying (4 hrs.)	X	X
Laws and Procedures of Land Surveying (4 hrs.)	X	

Apply no later than August 1, for the October examination and no later than January 15, for the April examination.

either for six months, nine months, twelve months, or fifteen months. Following this bill cycle, the next renewal notice registrants will receive will be for a one year period. Please read the renewal notice carefully and remit the fee requested. Renewal notices are mailed to the registrants' last known address which is the address used for mailing out the *Louisiana Engineer* magazine. Inquire among your professional associates to see if they are receiving the *Louisiana Engineer* magazine. If they are not, the Board office does not have their current address and they will not receive a renewal notice. Should this occur, registrants of the Board should contact the Board office so that the file can be updated.

The Board office solicits your cooperation. Registrants can help by remitting renewal fees upon receipt of renewal notice. Cancelled checks are proof of payment; therefore allow at least 6 weeks for the receipt of registration cards.

BOARD MEETING NOTICE

The Louisiana State Board of Registration for Professional Engineers and Land Surveyors will hold its 1983 regular meetings at 1055 St. Charles Avenue - Suite 415, New Orleans, La. 70130 on the following dates:

1983	1984
Nov. 22	Jan. 24, 25 Mar. 27 May 22
	July 24 Sept. 25 Nov. 27

CHALLENGING POSITION . . .

Jefferson Parish, a suburban community in the New Orleans Metropolitan area, is currently seeking a Professional Engineer to aid the Director of Public Utilities in the contract management and coordination of major construction and repair projects. The position requires current registration as a Professional Engineer qualified to practice in Louisiana and at least five years of experience, some of which includes the demonstrated ability to manage and coordinate public works projects.

Send resumé and salary requirements for official application forms or call for details.

JEFFERSON PARISH PERSONNEL DEPT.
ROOM 818
NEW GRETNA COURTHOUSE BLDG.
GRETN, LA 70053
(504) 367-6611, EXT. 312

Alexandria Chapter Wins 1982-83 Membership Contest

The Alexandria Chapter won the 1982-83 membership contest with 75.0% of quota and 137.5% of contest. In addition to points for new LES members, chapters are credited one point for each new NSPE member. The Alexandria Chapter had a quota of 16 and added 12 new members, 10 of whom joined NSPE.

The New Orleans Chapter won second place with 133.8% of contest and the Baton Rouge Chapter was third with 107.9% of contest.

A portable rostrum was presented to the Alexandria Chapter at the September meeting in Alexandria.

Alexandria Chapter Hosts 27th Annual LES Training Conference

The 27th Annual Chapter Officers Training Conference and State Planning Conference was held September 15-16-17, 1983 at the Sheraton Inn, Alexandria, and was attended by 101 engineers and 42 ladies. Seventy-two engineers and guests attended the Thursday evening early bird cocktails and dinner at the Alexandria Golf and Country Club.

The Friday morning session was conducted by LES President T. Dudley Hixson, P.E. Each activity chairman reported on aspects of his area to the new officers and committee members: Legislative Activity, Wilfred Barry, P.E.; LES Political Action, Curtis Dyle, P.E.; Practice Divisions, James S. Janssen, P.E.; Louisiana Engineering Foundation, Vincent A. Forte, P.E.; and State Board of Registration, Paul L. Landry, P.E.

On Friday morning, 29 ladies were carpooled for a tour of the Crit Asher Home and Mt. Olive Episcopal Church. After the tour, the ladies were treated to a luncheon and tour of the Hotel Bentley.

Ninety-five engineers and guests attended a luncheon Friday and enjoyed a talk by Lt. Governor Bobby Freeman. John Bergeron, P.E., Chairman of the Professional Engineers in Industry, presented the Industrial Professional Development Award to J. J. Lennox, P.E., Plant Manager, Louisiana Plant of Texaco, USA.

Committee and practice division meetings were held Friday afternoon where the new groups made plans for the new year.

On Friday evening, 107 engineers and guests enjoyed a delicious cochon de lait at Harold Miles Park prepared by Gerald Simmons, a former Executive Secretary of the LES. It was a real treat and we extend a special "thank you" to Gerald, and his brothers, D.D. and Gene. Cocktails were hosted by Louisiana Industries, Inc. Golf and tennis prizes were presented by Art Meyer, P.E., golf tournament chairman, and Kerry LaBauve, P.E., tennis tournament chairman. Fifteen golfers and six tennis players entered

Leta Bueto Executive Director Louisiana Engineering Society



the competition. The golf winners: low gross, Jack Groh, P.E.; runner-up, Tony Suravitch; low net, Jed Lewis; runner-up, Blaise Carriere, P.E.; closest to hole, Billy Rentrop, P.E.; ladies first and second, Beverly Groh and Bonnie Gautreau. The tennis tournament winners were first place Larry McKee, P.E. and Bob Blanche, P.E. Jean Blanche won the ladies tournament.

Forty-five engineers and guests attended the Saturday morning breakfast. T. Dudley Hixson, P.E., President, presented the portable podium to Kerry LaBauve, P.E., president of the Alexandria Chapter, which won the 1982-83 membership contest.

Texaco's Louisiana Plant Receives PEI Award

Texaco USA's Convent, Louisiana plant has been awarded the 1983 Industrial Professional Development Award of the Industry Practice Division of LES. The award was presented to J. J. Lennox, P.E., Plant Manager, by J. J. Bergeron, P.E., PEI Chairman, at the LES Annual Training Conference in Alexandria. Texaco USA is the domestic division of Texaco Inc.

The Industrial Professional Development Award is presented annually to the industrial employer who is judged to have made the most outstanding contribution towards the advancement and improvement of the engineering profession through its employment policies and practices. Texaco's Louisiana Refinery was selected on the basis of its close adherence to the "Guidelines for Professional Employment," published by NSPE. These guidelines, endorsed by 26 societies, form the basis of the Industry Practice Division's efforts to promote a harmonious relationship between the employer and employee.

The Louisiana Plant's management has adopted employment practices which recognize the mutual responsibilities of both the employer and its professional engineering employees. Among these areas which were judged exemplary were encouragement of professional registration, continuing education, new employee indoctrination, salary administration, and manpower utilization.

Previous recipients of this award include Cities Service Co., Freeport Minerals, and New Orleans Public Service. The PEI Division has forwarded its nomination of Texaco's Louisiana Plant to NSPE for consideration in its National Professional Development Award selection process.

"Engineers: Partners for Progress" Is 1984 Engineers Week Theme

The National Society of Professional Engineers (NSPE), with a membership of more

than 80,000 professional engineers from all disciplines of the profession, first sponsored National Engineers Week in February 1951. The purpose of the Week is to bring visibility to the profession.

In 34 years of NSPE sponsorship, the annual observance has grown from a few scattered proclamations, dinners and speeches to elaborate programs and week-long activities in urban and rural areas throughout the country. The activities involve engineers in industry, government, construction, private practice and education. Governmental agencies, technical professional organizations and citizen groups honor outstanding engineers for their contributions to local communities.

Young people are an important part of the week. Thousands of students in junior and senior high schools and colleges are introduced to many facets of the engineering profession: tours and exhibits are staged in the nation's industrial and research facilities; scholarships are awarded to deserving and needy youngsters; local newspapers publish special sections calling attention to challenging careers in engineering; and radio and television panels discuss outstanding engineering achievements and explain what it takes to become a professional engineer.

National Engineers Week is so important to the U. S. and its communities that for the past 34 years, the Presidents of the United States have sent Engineers Week messages to the engineering profession through the National Society of Professional Engineers.

In 1984 National Engineers Week will be celebrated from February 19-25. The theme for the Week is "Engineers: Partners for Progress." It is intended to highlight the need for partnerships among government, academia and the private sector to ensure America's status as the world's technology leader.

NSPE-PAC Targets 23 Candidates for Early Support in 1984 Elections

The National Society of Professional Engineers Political Action Committee (NSPE-PAC) has targeted 23 congressmen for early, special support in their 1984 re-election campaigns. NSPE-PAC plans to orchestrate a full-scale engineer grass-roots support program which, in addition to financial support, will include the coordination of volunteer activities and mailings.

According to NSPE Political Affairs Manager Arthur Kropp, in close races targeting can be crucial, spelling the difference between victory or defeat. Unlike many of the largest political action committees, NSPE-PAC has not been working from target lists. It has been in a "growing phase" the first five years of its

existence. However, with the unprecedented level of activity undertaken in 1982, the PAC Trustees felt confident enough to expand their services to selected candidates, Kropp said.

Not all candidates receiving NSPE-PAC contributions automatically get on the target list. The list currently consists of 23 individuals representing 15 states, but should grow to 40 by the fall and beyond that number as good challengers announce their intentions. In making their selections the PAC Trustees cited the candidates' unusually strong ties to the profession and NSPE. Kropp states, "This early action will help solidify the profession's emerging role in American politics. The decision to establish a target list would seem to send yet another strong signal to the Washington community that engineers are determined to maintain a powerful presence in the nation's capital."

The following have been designated as targets so far:

Rep. Steve Bartlett (R3-TX); Rep. Herb Bateman (R1-VA); Rep. Sherwood Boehlert (R25-NY); Rep. Jack Brooks (D9-TX); Rep. William Clinger (R23-PA); Rep. Jim Cooper (D4-TN); Rep. Dick Durbin (D20-IL); Rep. Cooper Evans (R3-IA); Rep. Don Fuqua (D2-FL); Rep. Nancy Johnson (R6-CT); Rep. Elliott Levitas (D4-GA); Rep. John McKernan, Jr. (R1-ME); Rep. Stewart McKinney (R4-CT); Rep. James Olin (D6-VA); Rep. Don



John J. Bergeron, P.E. (left) presents the Industrial Professional Development Award to J. J. Lennox, P.E., Plant Manager of Texaco USA's Convent, LA Plant.

Ritter (R15-PA); Rep. Robert Roe (D8-NJ); Rep. Joseph Skeen (R2-NM); Rep. James Slatery (D2-KS); Rep. Doug Walgren (D18-PA); Rep. Ed Zschau (R12-CA) and Senate candidates: Sen. Pete Domenici (R-NM); Rep. Albert Gore (D-TN); and Sen. John Warner (R-VA).

PEI Recognizes Additional Employers for Professional Employment Practices

LES-PEI has added five companies to its list of employers whose employment practices closely parallel those spelled out in the "Guidelines for Professional Employment for Engineers and Scientists." These companies have reviewed their employment policies and practices in light of the published Guidelines and have acknowledged their agreement in principal with these recommended practices. The newly added employers are Gulf States Utilities, Mobil Oil Exploration & Producing Southeast, Inc., Rubicon, Inc., South Central Bell - Louisiana Operations, and Texaco Inc. - Louisiana Plant.

These companies join 48 other engineering employers who have previously endorsed the guidelines and who have been listed in the "Professional Engineer" magazine of NSPE.

The basis for this program, the "Guidelines to Professional Employment for Engineers and Scientists," endorsed by some 26 engineering and scientific organizations, sets out the responsibilities of both employers and employees in the areas of recruiting, employer-management communications, salary administration, position titling, job classification, compensation methods, physical support, legal support, professional development, continuing education, and termination and transfer. All endorsing companies have satisfactorily completed a questionnaire whereby they have indicated a high degree of correspondence with the philosophies contained within the "Guidelines."

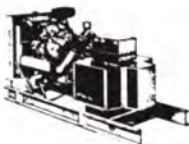
The Society hopes that the example set by these companies will inspire others to participate in this program and review their employment policies and practices.

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JOIN NSPE/LES FOR ABOUT 26 CENTS A DAY

The Louisiana Engineering Society is composed of approximately 32% of the registered professional engineers and engineers-in-training living and working in Louisiana. The legislature asks us every year why LES claims it represents the engineering profession in Louisiana and why LES makes nominations to the Governor for many Boards and agencies in state government. Our best answer: LES has the most representation of any engineering organization in the state. No other organization comes close. While this is true, we would be a lot stronger if we could claim more than 50% of all engineers in the state as members. Why do so many of you who received the LOUISIANA ENGINEER fail to participate in your professional society?

Engineers have a responsibility to set standards of excellence for their profession and to make sure those standards are observed. LES and NSPE continually promote quality in engineering through attention to ethical practices.

LES is the only organization representing engineers of all disciplines in lobbying before the legislators and dealing with state agencies.



Sound initial education and ongoing professional growth are hallmarks of a profession. LES and NSPE promote both through scholarships, guidance, continuing education and professional development programs.

A professional work environment for employed engineers — this LES considers essential. The Society working closely with NSPE promotes adequate compensation for engineering talent and a work environment conducive to technological innovation through many programs.

Almost 3,700 engineers are already members of LES. They ask you to join with them to make LES even bigger and more successful in its operation. More members mean adequate finances and manpower to give LES the necessary tools to carry through its all-inclusive programs for Louisiana engineers. It is only through the 8,860 Louisiana Professional Engineers and EIT's that an effective VOICE for the engineering profession can be heard. Help us to tell legislators that LES has more than 50% of all engineers in the state as members.

You are an engineer. It is your profession. Why procrastinate? Join today! Fill in the form below, clip or reproduce and mail to LES, P.O. Box 2683, Baton Rouge, La. 70821. NSPE and LES dues total \$94 a year (26 cents a day). A very small investment for your profession.

APPLICATION FOR MEMBERSHIP

Complete, detach and mail today!

LES, P.O. Box 2683, Baton Rouge, LA 70821

LOUISIANA ENGINEERING SOCIETY APPLICATION FOR MEMBERSHIP

GENTLEMEN:

I hereby apply for admission into the Louisiana Engineering Society and agree to comply with the Constitution and Bylaws and the Code of Ethics of the Society. I also apply for admission into the National Society of Professional Engineers, if qualified and if I have indicated 'yes' to question No. 8 opposite.

Please assign me to the Chapter checked below:

- Alexandria ☐ Lake Charles ☐
 Lafayette ☐ Bayou ☐
 New Orleans ☐ Monroe ☐
 Non-Resident ☐ Shreveport ☐
 Baton Rouge ☐ _____ ☐

Date _____

Signed: _____

FUNCTIONAL DIVISION PREFERENCE (Check One)

- ☐ Government ☐ Private Practice
☐ Industry ☐ Education
☐ Construction

PLEASE COMPLETE THE FOLLOWING SPACES

1. Name _____
 Last _____ First _____ Initial _____
2. Home Address _____
 Street _____ City and State _____ Zip Code _____
3. Business Affiliation _____ Position or Title _____
4. Business Address _____
 Street _____ City and State _____ Zip Code _____
5. Telephone: Home _____ Office _____ Please Send All Mail To: Home _____ Office _____
6. REGISTRATION: PE ☐ LS ☐ EIT ☐ None ☐
 State _____ Reg. No. _____ Branch _____
7. Are you now affiliated with NSPE Yes ☐ No ☐ If yes, what state? _____
8. If no, do you want to become a member of NSPE? Yes ☐ No ☐
9. Have you ever been a member of LES? Yes ☐ No ☐
10. Birth Date _____ Age _____ Spouse's First Name _____
11. Education _____
 School _____ Date Graduated _____ Degree Obtained _____
12. Major Engineering Discipline _____

NOTE: If you are a PE, EIT or LS only one LES Member Sponsor is needed, otherwise please list the names of three LES members as your references. A brief professional experience record must be attached if you are not a PE, EIT or LS.

1. _____ 2. _____ 3. _____

Recognition of fellow engineers has always been an important program of the Louisiana Engineering Society. It is the Society's feeling that honors and awards should be given deserving members so that public recognition of their attainments will inspire others.

The Society has six basic awards:

- The Andrew M. Lockett Medal for Civic Activities
- The A. B. Paterson Medal for an Engineer in Management
- The Charles M. Kerr Public Relations Award
- The James M. Todd Technological Accomplishment Medal
- The F. Hugh Coughlin Young Engineer Award
- The Leo M. Odom Professional Service Award



Nominations for recipients of the six basic awards may be made by:

- Any elected officer of the State Society or one of the Chapters.
- The Board of Direction of the Society.
- The Executive Committee or equivalent body of the Chapter.
- Three or more members of the Society.
- The individual Chapter Honors and Awards Committee.

Nominations may be submitted to a member of the Honors and Awards Committee, or to the Honors and Awards Committee in care of the State Office, no later than December 1, 1983. Nominations for the awards must be submitted on the appropriate form. These forms were delivered or mailed to each Chapter on September 16. The nomination forms should be supported by:

1. A full statement of the formal academic training, experience, progress, and notable technical or engineering contributions made by the nominee.
2. A statement of the basic reasons for submitting the nomination, and for believing that the nominee is eligible for the honor.
3. Such other information and references as may be of assistance to the Board of Direction in considering and acting upon the case.
4. It is essential that such documentation carry the present title and company connection of the nominee, and set forth clearly and concisely why he should be named for the award recommended.
5. A photograph of the nominee.

It is time for the Chapters to screen and select worthy candidates. Nominations for the awards must be in the hands of the Executive Director by December 1, 1983.

Awards will be presented during the Society's spring meeting on March 23, 1984 in Lafayette.

LES AWARDS SCHOLARSHIP TO LOUISIANA TECH UNIVERSITY STUDENT



C. Ray Wimberly, P.E., Dean of Engineering, Louisiana Tech University, presented a check to Joel Thomas Trammell, Ruston, for \$334. Joel was winner of the LES \$1,000 scholarship. He will receive the balance of the scholarship at the start of the second and third quarters.

IN MEMORIAM

Otis McCrory Jernigan

Otis McCrory Jernigan, former Chief, Operations Division, New Orleans District of the U.S. Army Corps of Engineers, died July 10, 1983. Born in 1907 in McCrory, Arkansas, he graduated with

highest honors with a degree in civil engineering from the University of Arkansas in 1927 and went to work for private consulting engineers in Arkansas before coming to the Corps in New Orleans in July 1931.

His first Corps assignment was design work on the Harvey Lock at New

Orleans. The following March he was given the assignment of inspecting contract work on South and Southwest Passes and managing the Corps shops at Burrwood.

In May 1936 he transferred to the now-defunct Mineral Wells, Texas, District where he supervised construction of a dam on the Brazos River. In August of the following year he was back with the New Orleans District first as design engineer and then project engineer for the Mississippi River Passes work, including supervision of the Burrwood complex, which had 300 Corps personnel employed there at the time.

In November 1940, he was named Head of the General Construction Section, where he directed general work.

With the outbreak of World War II he went into military service in the Army in April 1941. Assigned the rank of Captain, he was area engineer for the state, constructing three military airfields and four cantonments in Louisiana. In August 1942 he was promoted to major and was later transferred to Calcutta, serving as engineering executive officer and base engineer for Base Section #2 China Burma India Theatre. He planned and coordinated construction by combined British, Indian and American troops of military airfields, camps, ammo dumps, repair shops, warehouses and base facilities in eastern India.

In August 1944 he was promoted to Lieutenant Colonel and was discharged at the end of hostilities in 1945.

Returning to New Orleans District, he was named head of Revetment and Dredging Section, Construction division and then Chief, Hired Labor Branch and Revetment Section in May 1947. In this position he was responsible for personnel and equipment, construction of revetments, including asphalt, channel control and flood protection work along the Mississippi and Red Rivers.

For six months in 1950, he served temporary duty assignment in Germany with the European Command, Department of the Army, in a housing construction program.

In March 1951 he transferred to the Corps east Atlantic District, Mediterranean Division, where he was assistant chief of engineering division, and chief technical review and special project branch on military airfield construction in French Morocco.

He returned to New Orleans District and his old chief of hired labor branch.

Continued on page

SENIOR MECHANICAL Design/Project Engineers for Refinery/Petrochemical and Oil & Gas Production Projects New Orleans Location

Highly qualified mechanical engineers to fill senior level positions in our Mechanical Engineering Department. The technical requirements of the positions are as follows:

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- Working knowledge of all facets of multi-discipline projects.
- Expertise in particular areas of equipment or design will be given special consideration.

These positions require highly motivated team leaders who can carry a project from inception through completion. Qualified applicants send resume in confidence to:

Mr. John Serrano
Personnel Manager
WALDEMAR S. NELSON & CO., INC.
1200 St. Charles Avenue
New Orleans, La. 70130
(504) 523-5281

WITNESS

Continued from page 11

well-nourished professional ego.

It can be difficult for some to resist the temptation to demonstrate technical excellence at the expense of unbiased and considered professional judgment. It can be difficult for others to keep in mind that ordinary and reasonable care is all that is required of any professional (few of whom consider themselves "ordinary" in the first place). The unfortunate result is that standards can easily be set at the extreme.

Words of Caution

What would you advise one of your colleagues struggling, perhaps for the first time, with a decision about serving as an expert witness? Here are some considerations you might address:

1. Be certain, first, that you are an expert. Before you agree to serve, ask yourself if you truly understand the prevailing standard of care as it applies to the circumstances at issue. Remember, you have to know what the *average* architect or engineer might reasonably have done under similar conditions before you can form an opinion about what, in fact, was done. If you cannot think in terms of ordinary skill and care, you are probably the wrong expert.
2. Agree to serve only if you are convinced that the interest of both the profession and the public compel you to become involved. Keep in mind that a wide range of motivations, some good, some less than admirable, can be advanced under the noblest of banners. A court of law is no place to sort out reasonable differences among competent professionals about how high the standard of care ought to be, nor is it an appropriate forum for seeking new work.
3. Make certain you understand the constraints imposed on the original design. There are very few problems that could not be prevented if approached with the 20/20 hindsight you bring to the dispute. Sometimes this is difficult to keep in mind, especially so in the absence of information about the unique circumstances under which the work was performed in the first place.
4. Be prepared to resist pressures to arrive at the conclusion desired by those who are going to pay your fee. You have an obligation to uphold reasonable standards of professional performance, but you have no obligation to meet the expectations of the attorney who retains you—other than to render an objective opinion about the circumstances you have been asked to evaluate.

5. Resist the temptation to make judgments based on your own high standards. They are not relevant to the problem at hand. You may be the very best architect or engineer in the known universe, but you are not present in the courtroom to explain how much more effectively the tasks in question might have been performed. You are there to explain what usual and customary care would be under like circumstances and to express a considered professional opinion as to whether that level of care was met.
6. Finally, know what to expect in court. Recognize that by serving as an expert witness you open yourself up to chal-

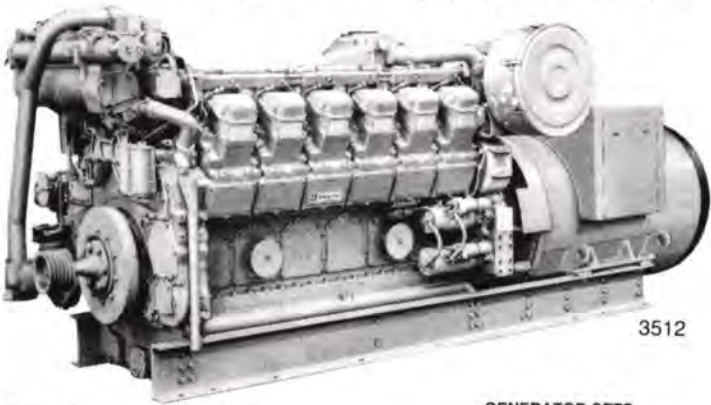
lenge in an adversary arena. Your presence invites inquiry by opposing attorneys into your knowledge, your qualifications, and the rationale underlying the opinions you advance. If there is room to discredit your testimony by casting doubt, you can be sure an attempt will be made to do so. Where even the slightest opening is found, it can be an unsettling and extremely unpleasant experience. In the face of it all, you have to remain composed, objective, and highly professional.

From:
The Professional Liability Perspective
August, 1983

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C. E. ROPER
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Continued from page 18

position with the completion of airfield construction in Morocco in 1955, and three months later was named assistant chief of operations.

With the retirement of the incumbent operations chief in early 1962, he was named acting chief. In March 1962 District Engineer Colonel Edward B. Jennings appointed him Operations Division Chief, the position which he held until his retirement at the end of October 1969, after 38 years of federal service.

He served as a consultant for the World Bank for review of cyclone and tidal wave damage to coastal embankments and for levee and river channel

maintenance and repair in East Pakistan. From 1974 until his death, he served as a consultant to the Mississippi River Bridge Authority on matters pertaining to ferry and bridge construction and operation projects.

His wife, Roberta, died in 1976. He has three children: Otis M., Jr., E. Barcus, and Elizabeth Ann.

IN MEMORIAM

Charles L. Graves, P.E.

Charles L. Graves, P.E., a member of LES since 1948 and a life member since 1978, died on July 6, 1983. Graves, who led the J. Ray McDermott & Co., now

known as McDermott International, Inc. to record-setting engineering feats in offshore oil construction and tenfold growth in the booming 1970s, died of heart failure.

Graves was president of Shamrock Plantation, a family-owned cattle farm in Wilkinson County, MS, and a director of McDermott. He served as director of Whitney National Bank of New Orleans, the New Orleans Museum of Art, International Trade Mart and Junior Achievement Inc. of Greater New Orleans.

Survivors include his wife, a daughter, two sons, and four grandchildren. The Louisiana Engineering Society extends its sympathy to the family.

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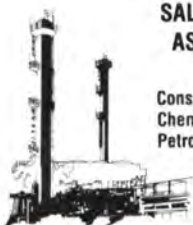
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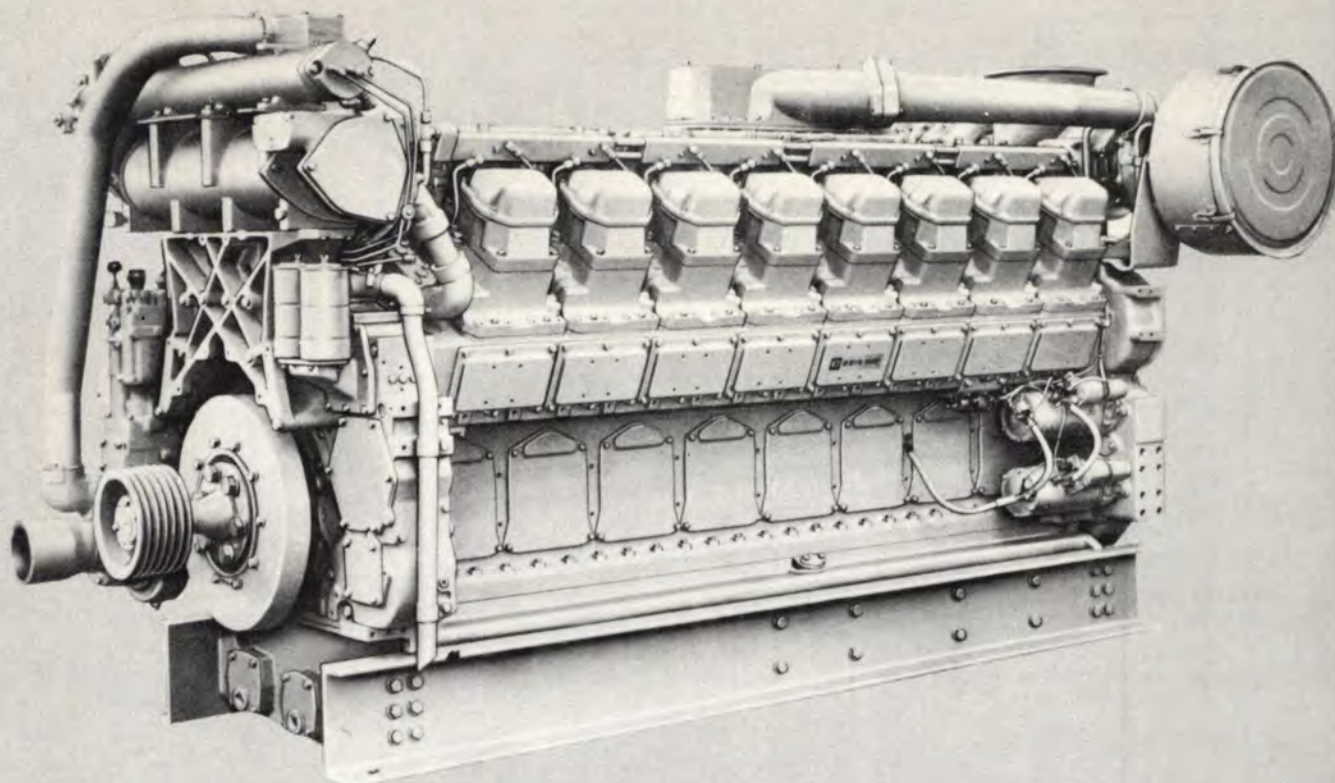
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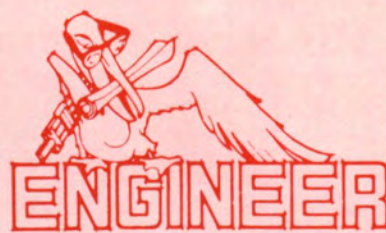
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DECEMBER, 1983

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ABOUT THE COVER

The Bonnet Carre Spillway was opened for the seventh time in its 52-year history in 1983. The high water led to some hard decisions by all parties involved. The complete story begins on page 8.

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OPPORTUNITIES

WORKING IN LOUISIANA

A PROGRAM TO MAT

WHAT IS THE PROGRAM?

One of the primary goals of your investor-owned electric companies has always been to improve our economy by bringing new industries to our area and creating job opportunities for our people. That's the



purpose behind "Opportunities: Working In Louisiana," a series of ten one-half hour television programs on career education, funded through a grant from the State of Louisiana, with major underwriting from Louisiana's investor-owned electric companies.

WHO WILL THE PROGRAM HELP?

The programs will provide information to people with little education, or those who are unemployed, under-employed, semi-skilled, in the hope of finding them jobs and finding skilled workers for industries and employment areas in Louisiana.

Each of the television programs will detail job information on several career areas as construction, hospitality, oil, finance and service and retail.



LOUISIANA'S INVESTOR-OWNED ELECTRIC COMPANIES

INVESTING IN YOUR ENERGY FUTURE

Central Louisiana Electric Company

Gulf States Utilities Company

Louisiana Power & Light Co.

PEOPLE WITH JOBS.

HOW WILL THE PROGRAM WORK?

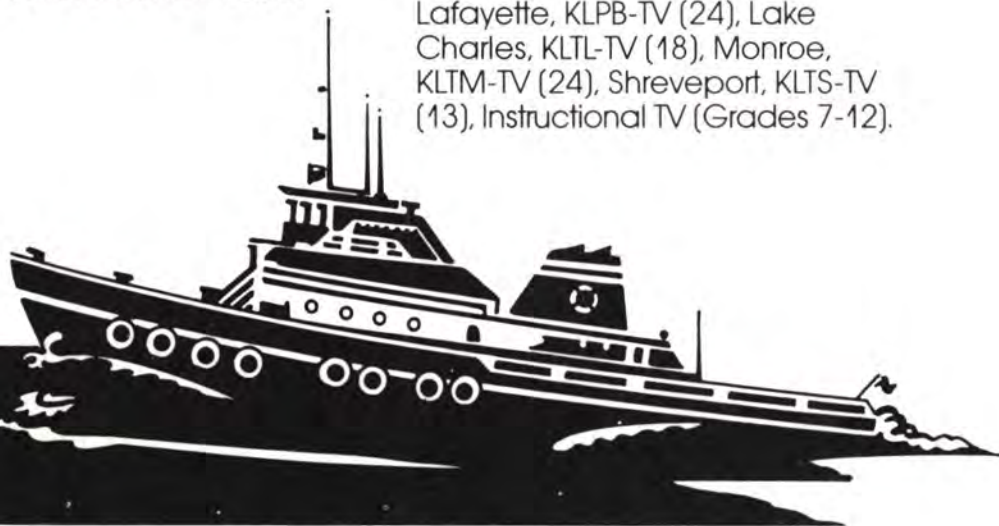
Individual computerized career and training counseling will be available through a toll-free number given at the end of each program. The programs will run one week for the first ten weeks of the fall of 1983 and will be repeated one per month for the following ten months. In addition, the programs will be shown to high schools throughout the state on TV (Instructive Television) starting in January, 1984, as well as be made available to business and civic organizations.

Providing jobs for our citizens is essential if we're to progress economically. Your Louisiana investor-

owned electric companies are proud to be part of the "Opportunities: Working In Louisiana" program.



Schedule of stations. Check your local listings for your city's station, date and time. New Orleans, WYES (12). Alexandria, KLPA-TV (25), Baton Rouge, WLPB-TV (27), Lafayette, KLPB-TV (24), Lake Charles, KLTL-TV (18), Monroe, KLTM-TV (24), Shreveport, KLTS-TV (13), Instructional TV (Grades 7-12).



Leans Public Service Inc.

Southwestern Electric Power Company

L.E.S. Board Meeting

Highlights of L.E.S. Meeting October 14, 1983 Covington, LA

The North Lake Chapter hosted the board meeting in the St. Tammany Parish Courthouse Annex with 17 members and six guests present.

1. The August and September financial statements were accepted subject to the annual audit.

2. The 1983 audit as prepared by CPA John I. Daniel was approved as presented.

3. The 1983-84 annual budget was approved as follows:

Income

LES Dues	\$103,364
Advertising	19,000
SB of Regis.	25,112
Miscellaneous	4,400
Contributions	10,200
Interest	4,000
Awards	350
Mathcounts	3,000
TOTAL	\$169,426

Expenses

Chapt. Rebates	\$ 12,896
Salaries	45,492
Payroll Taxes	3,600
Rent	6,000
Telephone	3,600
Electricity	1,000
Supplies	10,000
Postage	5,600
Rentals	1,900
Louisiana Engineer	44,600
Travel	5,425
Com. Exp.	1,000
Awards	2,000
Insurance	1,600
Employee	
Benefits	1,080
Pro. Services	1,500
Capital	
Improvements	2,200
Miscellaneous	4,408
Dues & Period	300
Automobile	3,000
Newsletter	1,000
Leg. Program	8,225
Mathcounts	3,000
	\$169,426

4. At the end of 1978, LES owned 200 shares of CLECO stock, gifts by two LES members to finance the F. Hugh Coughlin Young Engineer Award. In 1981, CELERON divorced itself from CLECO and LES was given 200 shares of CELERON stock and 86 shares of CLECO stock with the transaction. In May 1983, Goodyear Tire and Rubber Company bought out CELERON and LES ended up with 230 shares of Goodyear Tire and Rubber stock. The state office recommended that the Goodyear stock be sold and CLECO stock purchased. The Goodyear stock pays .46% dividends to CLECO's 11%. CLECO will earn the Society considerably more dividends and the board approved the sale of Goodyear stock to purchase CLECO stock.

5. The board approved a promotional membership mailing at the September meeting. The Membership Committee Chairman and LES President are preparing a letter to be mailed to at least 431 prospective members throughout the state, the present state membership quota for 1983-84, along with a dues invoice for both LES and NSPE membership. An ad hoc committee has been appointed by the President to develop a membership workshop for the September Training Conference.

6. The Louisiana Department of Transportation and Development contacted President Hixson requesting that LES file a joint friend of the court brief with ASCE and CEC/L on their behalf for use in a lawsuit they are involved in with Pepper and Associates, a New Orleans-based firm. After a lengthy discussion, the Board gave President Hixson authority to check with the other two organizations and to use his prerogative as to the action LES takes.

7. Curtis Dyle, Chairman of PAC, submitted to the Board a list of senators and representatives to which PAC contributions were made.

8. Kerry LaBauve, state chairman for the MATHCOUNTS Program, reported that updated and new rules are arriving weekly. The dates of February 18 and 19, 1984, have been set aside for all local contests and April 7 and 8 have been established for the state contest.

9. A draft of the Engineering Education Study was forwarded to President Hixson and Richard Matula, Dean of Engineering, LSU, for their review by Dr. Gautreaux. Hixson and Matula have sent their comments back to Dr. Gautreaux.

10. The Governor has not named a replacement for Fred Culpepper on the State Board of Registration for Professional Engineers and Land Surveyors.

11. R. C. Spears was not retained as a consultant, but will continue to work with the LES staff as needed and for the Louisiana Engineering Foundation.

12. The dates for the 1984 Training Conference have been changed to September 13-14-15, 1984, Sheraton Inn, Alexandria.

13. Approval was given for Paul Hale, P.E., to attend the NSPE Scholarship Committee meeting, February, 1984, in Richmond, Virginia.

14. Changes over the past several years in the Contractors' Licensing Law and how these changes relate to the practice of engineering and architecture prompted the Board to refer this matter to the Legislative Committee for its review.

15. McNeese State University has been nominated for the NSPE Koerpe Award.

16. Proposed amendments to Bylaw 6-Committees, were mailed on September 23, 1983. The Board could not act on the amendments as the Constitution requires that they be mailed a copy of such proposed amendments at least thirty days in advance of the meeting at which action thereon is to be taken.

Building a Superior Educational System



Thomas Dudley Hixson, P.E.
LES President

Louisiana has been fortunately blessed with outstanding schools of engineering in its educational system. This did not happen without the dedicated efforts of educators and the engineering profession. However, we cannot truthfully say that all is well in our national educational system or in Louisiana. If appointed to sit in judgement, we could all find things to change if it were within our power to do so, but a particular item perceived as an overriding concern, bears some special discussion and attention by our profession.

Why are fewer and fewer native-born U.S.A. citizens choosing the profession of teaching in our schools of higher education?

Some immediate responses to the question would undoubtedly include the mention of low salaries. It is a valid response, perhaps, but not in itself the sole reason for this alarming decline. Much has been said, and far too little done, regarding raising salaries of teachers in all levels of education. For anyone to enter any given profession, he most assuredly would have to hold that profession in high esteem. It is herein that some of the problem must exist.

The teaching profession, in general, has been the subject of much controversy and concern during the previous several decades. Salaries, quality of education, rapidly changing technology and social impacts have all generated conversation and some degree of action. Some of the intense controversy must not have been without negative impact on students, who in large numbers have chosen not to enter the teaching profession.

It should be society's responsibility to correct the situation, and reinstall the

esteem the teaching profession deserves. To fail is to delegate the responsibility for the education of many of our future leaders to foreign nationals who are entering the teaching profession in large numbers.

We should not accept with apathy the false premise that a teacher's dedication to teaching will override the desire and need for comparable financial remuneration. Physical facilities, quality of teachers and student/teacher ratios also affect students opinions of the teaching profession. These shortcomings are expensive to correct, but as has been said, "If you think education is expensive, try ignorance!"

America must pull itself up by its own bootstraps regarding this matter. If we are to establish and maintain eminent excellence in education and a position of technological leadership in the world, it must be through a superior educational system.

The solution involves the continued, diligent efforts of dedicated educators; it requires the preparation, introduction and passage of proper and timely legislation; it requires the financial support and efforts of industry, private business, professionals and individuals.

Do not take too much comfort solely in the fact that LES has undertaken an engineering education study, or that NSPE is well aware of the problem and is working daily to implement solutions. You may be assured that these things are happening, but what are you, as an individual, doing to the end that the educational system is the United States will be second to none?

The opportunity to effect positive change is virtually unlimited.

High Water, Hard Decisions: The 1983 Bonnet

by
Major General William E. Read
and
Dr. Michael C. Robinson

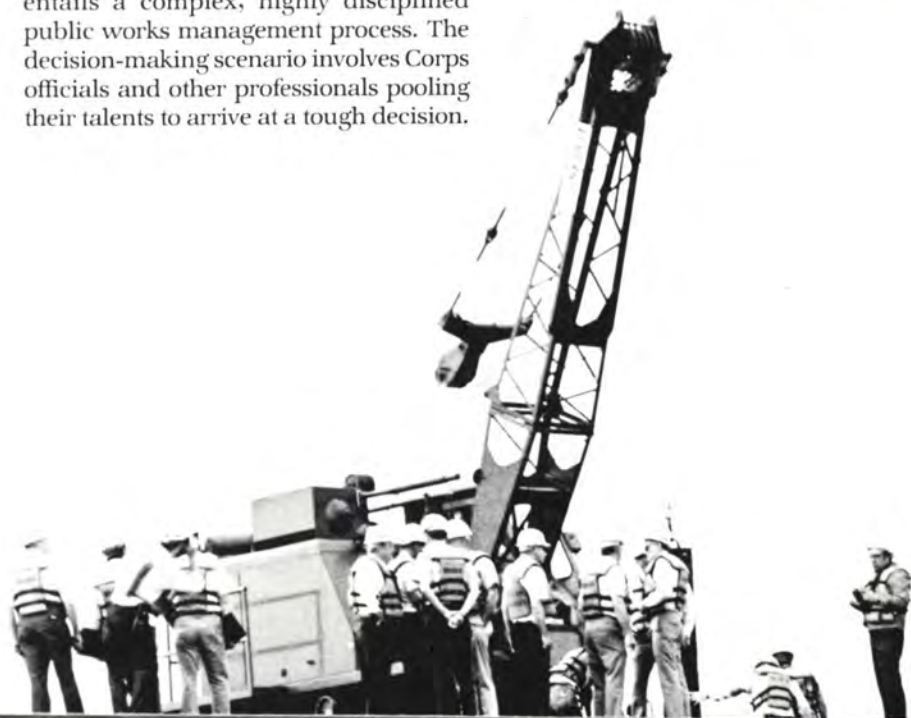
On May 20, 1983, for the seventh time in its 52-year history, the Bonnet Carre Spillway was opened by the U. S. Army Corps of Engineers. To the spectators who observed the event or casual viewers of the evening news, the operation may have seemed a simple, routine process. Once again water was diverted from the Mississippi River into Lake Pontchartrain to protect New Orleans and downstream parishes from undue risk of flooding—much as one would turn on a faucet.

In fact, any Bonnet Carre operation entails a complex, highly disciplined public works management process. The decision-making scenario involves Corps officials and other professionals pooling their talents to arrive at a tough decision.

Will predicted Mississippi river stages and discharges subject the main flood protection system to unacceptable stress and require the relief Bonnet Carre provides? This article will consider how the decision to open Bonnet Carre was reached in 1983 and discuss certain aspects of the spillway's operation.

The State of Louisiana is far from the Mississippi River's source that trickles out of Lake Itasca in Minnesota. However, on its way to the Gulf of Mexico North America's greatest river gathers the runoff of 31 states—a drainage basin that

Water pours through one of the Bonnet Carre's 350 bays.



re Spillway Operation

ranges from the Continental Divide, northward to Canada, and as far east as the Appalachians. The Missouri, Illinois, Ohio, and Arkansas rivers as well as hundreds of smaller streams directly or indirectly discharge into the Mississippi. Lower Louisiana forms the spout of this 1,246,000 square-mile, funnel-shaped drainage basin that encompasses 41 percent of the continental United States. Therefore, during major floods, such as the 1983 event, the river's enormous hydraulic forces severely test this area's flood control works as well as the skills and ingenuity of Corps and other professional emergency managers.

The Bonnet Carre Spillway is but one important feature of the Mississippi River and Tributaries Project (MR&T) which was authorized by the Congress in 1928.

This still-incomplete system of levees, floodways, channel improvements, and other elements provide flood protection along the Mississippi's main stem as well as to portions of tributary basins in the Lower Mississippi Valley. The main stem features of the MR&T project are designed to safely convey the project flood to the Gulf. The entire MR&T project is under the direction of the Mississippi River Commission (MRC) located at Vicksburg, Mississippi. Operational responsibility for Bonnet Carre rests with the Corps' New Orleans District (NOD). However, the decision of whether to open the spillway is the responsibility of the

MRC President, after consultation with the Chief of Engineers in Washington, D.C.

The spillway is located on the east bank of the Mississippi River some 32 river miles above New Orleans. The structure was built by the Corps following the disastrous record flood of 1927. It is designed to protect New Orleans and other downstream areas by diverting some Mississippi River flows from upstream of New Orleans into Lake Pontchartrain and thence into the Gulf of Mexico.

The spillway was completed in 1931 and its guide levees were finished the following year. The 7,000 foot-long structure contains 350 bays or openings separated by concrete piers. Each bay is closed by twenty 8 x 11½-inch timbers called "needles." They are either 10 or 12 feet long depending on the elevation of the weir crest. Cranes atop the spillway lift the individual timbers during operations. Guide levees confine the flow along the 5.7 miles from the Mississippi River



to Lake Pontchartrain. The floodway gradually widens from 7,700 feet at the river to 12,400 feet at the confluence with the lake.

As flows began to approach project flood magnitude in the main stem below Old River during April, the possibility of a Bonnet Carre operation became a major concern of the MRC, the NOD, and non-Federal interests. During the first two weeks of May, Corps' employees monitored weather and stage predictions, evaluated New Orleans' needs for temporary flood protection at certain locations, considered the affects of Bonnet Carre flows on shellfish in Lakes Pontchartrain and Borgne, studied the probable impacts of storm surges from the Gulf on river stages at New Orleans, poured over laws and regulations governing the spillway's use, and consulted with local interests on levee conditions and the influences of high stages on navigation activities.

These activities took place as other floodfight efforts were underway

throughout the Lower Mississippi Valley.

The prospect of a Bonnet Carre operation weighed heavily on the minds of Corps officials because of environmental considerations. Diverting a great deal of fresh water into Lakes Pontchartrain and Borgne would reduce salinity levels and further damage the shellfish harvest already seriously affected by record spring rains. In the long run, nutrients from the Mississippi River water would enhance the shellfish industry, but the immediate impacts were largely adverse.

On May 12, a meeting was held at the New Orleans District between Corps officials and representatives of various federal and state agencies that manage fishery resources in Louisiana and Mississippi. All parties agreed that if Bonnet Carre had to be opened the Corps would provide ample notice so that these interests could ameliorate impacts, prepare to conduct sampling, and monitor the affects of the event. The general consensus was that such meetings should

occur in any year river conditions dictated a potential Bonnet Carre operation.

By May 15, a peak stage of 18.0 feet on May 29 was predicted for the main stem at the Carrollton Gage in New Orleans by the National Weather Service. The authorized grade for the flood control system is about 25 feet on the Carrollton Gage. During the '83 flood, permanent protection through the entire New Orleans reach existed only for a river elevation of 19 feet on the Carrollton Gage. Above that elevation, reaches of increasing lengths for higher stages require temporary construction to provide the authorized freeboard. Temporary flood control works were being added at areas of deficient grade that would provide the city protection for a river stage of 21 feet on the Carrollton Gage. Relying on hastily constructed temporary protection to convey long duration floods through metropolitan New Orleans is at best very risky.

To further assess conditions, the MRC President and various MRC and NOD staff and local levee board officials inspected the temporary protection on May 16 and consulted with local interests on navigation-related and other issues. Thus, after considering a host of hydrologic, structural, navigational, legal and other factors, the need and schedule for operation of the Bonnet Carre Spillway was decided. Dialogue between the MRC and NOD ensured that all factors were considered and appropriate alternatives weighed.

On May 18, the MRC President, after consulting with the Chief of Engineers, accepted the District Engineer's recommendation to open Bonnet Carre on May 20 when the river was expected to reach a flow of 1.25 million cfs and to limit the river discharge to no more than 1.30 million cubic feet past New Orleans during the flood. This range in discharges (1.25 to 1.30 million cfs) was considered a practical necessity due to inability to precisely measure river flows or control the spillway discharge. This flow corresponded to a stage of about 17 feet on the Carrollton Gage, based on the stage-discharge relationship of that time. Subsequently, the stage at New Orleans never exceeded 17.2 feet but would have exceeded 19 feet without the spillway's operation.

Two weeks prior to the decision to operate the spillway, the New Orleans District began to implement a deliberate comprehensive plan to ensure the spill-

Water flows from the Mississippi River through a few of Bonnet Carre's 350 bays to Lake Pontchartrain to protect New Orleans and downstream Louisiana parishes from flooding.



way was in a proper state of readiness. Test bay openings were performed to familiarize work crews with proper procedures and verify that all equipment was in good working condition.

A general reconnaissance of the guide levees was made and roadways along their crests were judged capable of facilitating inspection during the spillway's operation. Contacts were made with the Louisiana Office of Emergency Preparedness as well as the Red Cross, and all interests with property in the floodway were advised to remove it. Furthermore, liaison was established with owners of pipelines, bridges, and powerlines that traverse the floodway. Finally, the U.S. Coast Guard was asked to close down a ship anchorage area near the spillway, and the Corps picket boat *Beinville* was stationed near the site to prevent wayward tows from being drawn into the structure.

Thus, by mid-May most preparations already had been made for the spillway operation. The first "needles" were removed from 70 bays on May 20 and by May 24 all 350 bays were in full operation. Based on the preliminary stage-discharge relationship, the maximum flow through the structure was approximately 260,000 cfs, which corresponded to about a 2-foot stage reduction at and below New Orleans. (Subsequent detailed analysis of the stage-discharge relationship could result in minor revision). Once the Mississippi began to fall, bay closings commenced on June 13 and the process was completed 10 days later. Corps officials determined that the closings operation should achieve a gradual decrease in the main stem stages to allow the levees and river banks to dry more slowly and help preclude the possibility of slides and cracking. Follow-up inspections of the spillway structure and guide levees revealed little damage or scouring. However, some minor seepage was observed in several areas along the guide levees near Lake Pontchartrain.

Once again Bonnet Carre did its job and reinforced public confidence in the flood control system that protects lives and property in the area. This faith in the Bonnet Carre and other features of the MR&T Project is a tribute to the farsighted leaders who founded the great undertaking more than a half century ago, and to the cooperative efforts of the local levee boards, the state of Louisiana, and the Corps of Engineers.



A crane atop the spillway lifts one of the 7,000 "needles" to begin opening one of Bonnet Carre's bays.



A crane atop Bonnet Carre spillway pulls an 8x11-1/2-inch timber "needle" from a bay.

Engineers' Club of New Orleans Relocated to Own Quarters

A well-attended "housewarming luncheon" was held in the club's new quarters on the 24th Floor of the Ten-O-One Howard Avenue building on November 17, 1983. After a pleasant year of residence above Kolb's Restaurant, the club's Board of Directors arranged for a more permanent home.

Parking within the 1001 garage, the very reasonable prices of catered luncheon specials and sandwiches, along with the view of the city behind the bar will all add to the attractiveness of having this professional club back in independent operation.

Mrs. Evelyn Markel, the new Executive Secretary, has put the club in order and is available at (504) 581-7981 for information and reservations for large luncheons or evening meetings.

Upcoming plans include the continuation of the Monday Red Beans 'n Rice luncheon buffet, \$1.00 drinks, and the possibility of open house for Superdome events.

The club invites all Louisiana and visiting engineers to stop by its new home when in New Orleans.

Highway Hall of Honor Inductee

Two-time Louisiana governor Jimmie Davis has been selected as the 1983 inductee into the Louisiana Good Roads & Transportation Association's Highway Hall of Honor. Davis, governor in 1944-48 and again from 1960-64, was officially inducted into the Highway Hall of Honor on Wednesday, November 30, 1983.

Ray W. Burgess, President of the Louisiana Good Roads & Transportation Association, said of the 1983 recipient, "Throughout Davis' two terms as governor, leadership and foresight enabled the transportation network in our state to develop into a first rate system in which our citizens and elected leaders could take pride."

It was during Davis' second term as governor that Louisiana experienced the phenomenal growth of its modern interstate highway system. "His foresight to first build the interstate through the major urban areas in New Orleans, Baton Rouge, Lake Charles, Monroe and Shreveport - won for him immense support from the state's citizens and leaders. This alone was instrumental to the completion of the super highway," Burgess said.

He added that other important highway construction projects completed by the Davis administration included two major bridges across Lake Ponchartrain, Highway 90 throughout South Louisiana, the West Atchafalaya Floodway crossing, the Inner Harbour Navigation Canal Bridge and the Red River Bridge in Alexandria.

"Governor Jimmie Davis personified a driving commitment to shape Louisiana's highway system into one of the best in the country," Burgess said. Burgess stated that the Highway Hall of Honor recognizes those individuals responsible for significant contributions to Louisiana's vital economic base, its transportation network.

Davis is the association's 16th inductee and joins notable prior recipients in the Hall of Honor home, the lobby of the Louisiana Department of Transportation & Development Headquarters in Baton Rouge, where Davis' induction and unveiling ceremony took place.

Following the official induction ceremony, former governor Davis was honored at a luncheon by members and guests of the Louisiana Good Roads & Transportation Association at the Baton Rouge Inn On The Lake.

Engineering Award

Cheryl M. Collarini was presented a Distinguished New Engineer Award from the Society of Women Engineers at a recent dinner meeting. The annual award goes to five women in the nation who have: 1) been actively engaged in an engineering profession for ten years or less, 2) shown outstanding performance in engineering and leadership, and 3) been actively involved in technical societies and other outside groups.

Ms. Collarini is a Reservoir Engineering Supervisor with Mobil Oil Corporation in New Orleans, LA, and serves on the Board of Directors for the American Petroleum Institute and the Society of Petroleum Engineers.

Toothpick Bridges and Falling Eggs: Get Ready for National Engineers Week 1984

In Dallas, Texas, they'll be building bridges out of toothpicks. In Raleigh, North Carolina, they'll be dropping eggs from a 23-foot perch.

They are students who will compete in some of the many National Engineers Week activities organized by engineers across the country February 19-25, 1984. This 34th annual celebration is sponsored by the National Society of Professional Engineers. The theme for the week is "Engineers: Partners for Progress."

The Dallas toothpick bridge-building contest (object: with 999 toothpicks, or less, build the lightest, strongest structure) and the Raleigh egg drop (object: design the lightest crash-resistant container) are educational as well as fun. Engineers Week activities across the country usually range from these kinds of events to professional development seminars, to sponsorship of community action projects, such as construction of playgrounds for handicapped children.

At the national level, plans are underway to announce the ten most outstanding U.S. en-

gineering achievements of 1983. Also, students across the country will be competing in the first round of MATHCOUNTS. MATHCOUNTS, co-sponsored by NSPE, is a new national mathematics coaching and competition program for 7th and 8th grade students. Regional competitions will be conducted by NSPE affiliates in 45 states and the District of Columbia. Winners of the regional meets progress to state and then national finals in the spring.

"Engineers have crucial roles to play in helping the U.S. remain competitive in the global marketplace. In part, that means educating our youth for a technological future," said J. Paul Oser, P.E., National Engineers Week Chairman, when asked about the 1984 celebration. "Engineers in government, academia and industry must lead these sectors to forge new partnerships to reach these goals. This is why we selected the partners for progress theme."

U.S. Postal Service to Issue Commemorative Engineering Stamp in 1984

In conjunction with the 50th anniversary of the National Society of Professional Engineers (NSPE), the U. S. Postal Service will issue a commemorative stamp honoring the engineering profession and engineer Lillian Gilbreth. The stamp will be issued February 24, 1984, during National Engineers Week.

The idea of a commemorative stamp honoring an engineer and the profession was proposed by NSPE to the Postal Service two years ago. The suggestion to use Gilbreth came from NSPE member Sharon Loeffler, currently a member of the Oklahoma Society of Professional Engineers.

NSPE conducted a nationwide letter-writing campaign urging the Postal Service to issue the Gilbreth stamp. Postmaster General William F. Bolger announced selection of the stamp, saying it will be part of the continuing "Great American" series of commemoratives and will be issued from Montclair, New Jersey, Gilbreth's home.

Acknowledging the Postal Service's selection, NSPE Executive Director Don Weinert said, "As we think of honoring engineering, it is fitting to honor the growing influence of women in the profession. Lillian Gilbreth's work epitomizes the creative capacity, aptitude and inventiveness that characterize the engineering profession."

Gilbreth, who lived from 1878 to 1972, is often referred to as the "first lady of engineering." With her husband Frank, she ran a consulting engineering firm that pioneered in the field of time-and-motion studies designed to increase productivity and reduce workers' fatigue. Their motion-study techniques are used widely today.

Gilbreth was the first woman elected to the National Academy of Engineering (1965) and the first woman to receive the prestigious

Leta Bueto
Executive Director
Louisiana Engineering Society



Hoover Medal for distinguished public service by an engineer (1966).

Made in U.S.A.:
NSPE Honors Three Manufacturers
with First New Product Awards

An instant camera, a blood pump for open-heart surgery and a portable fire extinguisher have won their manufacturers top honors in the National Society of Professional Engineers' (NSPE) first annual New Product Award competition. The prize honors a new product, machine, process or material that has been developed and manufactured in the U.S.

The Eastman Kodak Company of Rochester, New York, is the winner in the large company category for its Kodak Disc Photographic System; Sarns, Inc., of Ann Arbor, Michigan, developed the 7400 Pulsatile Blood Pump which receives the award in the medium-sized company category; and, for small companies, the NSPE New Product Award goes to ULTEC, Inc., of Exton, Pennsylvania, for its small but powerful fire extinguisher called CEASE FIRE.

Fully automatic, the Kodak Disc camera was introduced in 1982 after 10 years of research and development. It analyzes the scene, sets the proper exposure, activates a built-in flash if necessary, takes a picture, advances the film, and recharges the flash—all in less than 1.3 seconds. The system had created 6,000 new jobs by the time it went into production in 1981. To date, it has generated an estimated \$1 billion in sales.

The 7400 Pulsatile Blood Pump, designed for use during open heart-surgery, can deliver not only the continuous blood flow of conventional blood pumps, but also two forms of the pulsating flow that simulates or augments the action of a patient's heart.

Design of the pump, which was introduced in March 1982, involved a blend of electronic engineering, bio-engineering, mechanical engineering, and human factors design. The machine's unique pulsating flow capability is expected to reduce stress on heart patients' vascular systems.

The CEASE FIRE extinguisher delivers more than twice the fire-killing potency in half the space of conventional fire extinguishers. Because its two main ingredients—monoammonium phosphate and halons—are in a permanent gel suspension, it has an indefinite shelf life and needs no recharging. The extinguisher's small size enables it to be operated with one hand, and makes it accessible in places where fire extinguishers frequently are not available. In a limited local test marketing, approximately 20,000 CEASE FIRE units were sold; the estimated U.S. mar-

ket for the product is 13 million households.

The New Product Award is sponsored by the Professional Engineers in Industry (PEI) practice division of NSPE. Winners are chosen by the PEI Awards Committee from among nominations submitted by NSPE state societies.

Judging is based on the economic contribution (in jobs and sales) of the product, the firm's ingenuity in using engineering principles and materials and the product's overall benefits of improved function and ease and savings in use.

The 1984 awards will be presented to Kodak, Sarns and ULTEC representatives at NSPE's annual Winter Meeting on January 17 in San Francisco.

NSPE Recognizes Five For Outstanding
Employment Practices

The National Society of Professional Engineers (NSPE) has honored five employers for their outstanding employment practices and policies. They will receive the Society's Professional Development Award in recognition of their superior programs.

NSPE offers one award annually in each of five areas: construction, education, government, industry and private practice. The awards are presented to employers judged to have made the most outstanding contributions to the advancement of the engineering profession through programs that encourage the professional development of their engineering staff.

Dresser Engineering Co. of Tulsa, Oklahoma, is this year's winner of the Construction Professional Development Award. The company, a division of DM International, Inc., offers strong incentives to encourage professional registration of its engineers. In addition, paid membership fees and leave time are offered to Dresser engineers who participate in professional and technical society activities. The firm was nominated for the award by the Professional Engineers in Construction practice division of the Oklahoma Society of Professional Engineers.

This year's Education Professional Development Award goes to the Professional College of Engineering at the University of Central Florida. The school's facilities, academic policies, and encouragement of a wide variety of research, professional, and continuing education activities among its engineering faculty made it the most outstanding nominee for the education award. The Florida Engineers in Education division of the Florida Engineering Society nominated the school for the honor.

The annual award for government rotates among federal, state, and local government agencies. This year, the New Mexico State Highway Department was chosen from among state government nominees as the winner of the Government Professional Development Award. All 125 of the department's engineers are registered professional engineers or certified engineers-in-training. The agency provides its engineers with many incentives for continuing education and career development. The agency was nominated by the Professional Engineers in Government practice division of the New Mexico Society of Professional Engineers.

The Central Engineering division of Borg-Warner Chemicals, Inc., was chosen among industry nominees to receive the Industrial Professional Development Award. The division, headquartered in Parkersburg, West Virginia, is responsible for the design, engineering and construction of new Borg-Warner production facilities worldwide. The company's engineers have access to a wide variety of research and technical support. They are encouraged to seek professional registration through full company reimbursement of all costs associated with obtaining a P.E. license.

Pennoni Associates, Inc., of Philadelphia, is this year's recipient of the Private Practice Professional Development Award. The consulting firm provides civil, environmental, sanitary, mechanical, electrical, structural and transportation engineering services, and employs 26 engineers and engineering supervisors. Among other favorable employment practices, the firm offers a "dual ladder" promotion policy for engineers who desire to stay in the technical, rather than supervisory, field. Administrative and technical support provided to the company's engineering staff allows Pennoni engineers to restrict their activities primarily to professional activities. The company also provides full tuition reimbursement for its engineers' continuing education. Pennoni was nominated for the award by the Professional Engineers in Private Practice division of the Pennsylvania Society of Professional Engineers.

One honorable mention award was given this year in the construction category. The award winner is The Crom Corp. of Gainesville, Florida. The firm was nominated by the Florida Engineers in Construction practice division of the Florida Engineering Society.

The 1984 Professional Development Awards will be presented to the winners by NSPE President Louis A. Bacon, P.E., during the Society's Winter Professional Meeting in San Francisco, January 17.



NÔTRE MÉTIER

Paul L. Landry, P.E., Executive Secretary
Louisiana State Board of Registration for
Professional Engineers & Land Surveyors.



National Council of Engineering Examiners (NCEE)

What is NCEE? Who are members of NCEE? What does NCEE do?

Until I was appointed Executive Secretary, about two years ago, I had only a vague idea what NCEE was. Dr. Vliet, my predecessor, quickly let me know the importance of NCEE to the Louisiana Board. Within weeks of my appointment, I was directed to attend the fall 1981 NCEE annual meeting in Tulsa, Okla. I immediately noted that the Louisiana Board was there in full force (all current members of the Board plus most of the past Board members). That got my attention—"these are busy people; why are they here? Best I pay attention."

I've learned since that fall meeting that members of the Louisiana Board were among the founders of NCEE. Colonel Marcel Garsaud, a member of the Louisiana Board from its inception in 1908 thru 1924, was elected the first president of NCEE in 1920. The Louisiana delegation has been and continues to be a strong delegation at the annual meeting, and take an active part in the affairs of the organization, and many of its members serve on various committees. Current committee assignments are:

Arthur R. Theis, P.E./PLS—Advisor on Council Activities

Roy T. Sessums, P.E.—Past President—Advisor on Council Activities

James W. Reeves, P.E.—Constitution and Bylaws

Roy T. Sessums, P.E.—Awards

Edward J. McNamara, P.E./PLS—International Relations

James W. Reeves, P.E.—Subcommittee Foreign Education

Chris Demopoulos, P.E./PLS—Nominations

Paul L. Landry, P.E.—State Board Secretaries

Chris Demopoulos, P.E./PLS—Uniform Examinations and Qualifications for Professional Engineers

James L. Meyer, P.E./PLS—Uniform Examinations and Qualifications for Professional Engineers

Francis C. Roy, P.E.—Uniform Examinations and Qualifications for Professional Engineers

Roy T. Sessums, P.E.—Council History
Fred C. Culpepper, P.E./PLS—Chairman Office Automation (Ad Hoc)

Paul L. Landry, P.E.—Office Automation (Ad Hoc)

By now you are probably bored because all I've said is that I'm impressed. Let me try to answer the questions.

What is NCEE?

The Council is a council of all of the state Boards who register Professional Engineers

Annual Renewals

All individual renewal notices have been mailed out to all registrants of the Board who were active in 1983. Renewals postmarked after December 31, 1983 are subject to a delinquent fee, therefore please submit your payment early. Late renewal fees established by the Board, as permitted by the statutes, are twice the normal fee for the first six months delinquent and three times the normal fee thereafter.

Registrants of the Board who were inactive as of October 28, 1983 will receive a notice from the Board in mid-to-late January, 1984.

This notice will give the inactive registrant an opportunity to become current with the Board.

BOARD MEETING NOTICE

The Louisiana State Board of Registration for Professional Engineers and Land Surveyors will hold its 1984 regular meetings at 1055 St. Charles Avenue - Suite 415, New Orleans, La. 70130 on the following dates:

1984

Jan. 24, 25	July 24
Mar. 27	Sept. 25
May 22	Nov. 27

EXAMINATION SCHEDULE

SPRING	FALL
Apr. 14, 1984	Oct. 26, 1983
Apr. 20, 1985	Oct. 27, 1984

Fundamentals of Engineering Examination (8 hrs.)

X

X

Fundamentals of Land Surveying Examination (8 hrs.)

X

X

Principles and Practices of Engineering (8 hrs.)

Civil (Including Structural & Sanitary),
Mechanical, Chemical, & Electrical

X

X

Agricultural, Industrial,
Metallurgical, Mining &
Petroleum

X

Principles and Practices of Land Surveying (4 hrs.)

X

X

Laws and Procedures of Land Surveying (4 hrs.)

X

Apply at least six to eight months prior to an examination. Board approval *must* be given for anyone to be scheduled for an examination.

The applicant and the Board depends upon information provided by third parties in the processing of an application, therefore no assurance can be given that one will be scheduled for a specific examination.

and Land Surveyors throughout these United States. There are fifty-four (54) Member Boards (the fifty states plus the District of Columbia, Virgin Islands, Guam, and Puerto Rico).

Who are Members of NCEE?

Member Boards are members of the Council. Individual Board Members of these Boards are representatives of their respective Boards in the Council. Each Member Board has one vote. An individual registrant of the Louisiana Board cannot be a member or join NCEE, only the Louisiana Board represented by the members of the Board participate in the Council's activities.

What does NCEE do?

Model Law—The council maintains a model law for all states to use in revising their respective state laws governing the registration of engineers and land surveyors.

Examinations—All fifty-four (54) Mem-

ber Boards now use the NCEE examinations. Illinois was the last to hold out but it's my understanding that it will begin to make use of the NCEE examinations shortly.

Comity—The exchange of information is vital between Boards so as to make comity possible. As a member of the Secretaries Committee I am working on standardizing the verification of registration format so that we can readily exchange information. Standardizing becomes extremely important if we are to use electronic means to transfer data in the future.

Enforcement—Exchange of information between member Boards is vital to any state's enforcement program.

Foreign Education—Over the years O. B. Curtis, Sr., Consultant to the Mississippi Board, has published a series of reports which Member Boards use in the evaluation of foreign education.

Records Verification Program—A professional engineer of any of the Member Boards may, for a fee, have NCEE maintain a

record which will simplify, and should expedite, registration via comity/reciprocity in a majority of the states. The Records Verification Program is most helpful to the registered professional engineer who needs to be registered in a number of states. It does serve to expedite registration in most states. To obtain further information on this program write to: NCEE Records Program, NCEE, P. O. Box 1686, Clemson, SC 29633-1686.

Conclusion

NCEE is most important to all registrants of all Boards because of the transient nature of the engineering profession. NCEE provides a forum for the exchange of information. The NCEE model law is just that, a model law, for all Member Boards to strive for and adapt to their own needs.

The members of the Louisiana Board have been very active participants in NCEE because only through this organization can orderly evolution of the profession and the protection of the public take place.

1984 Engineering Management Courses

FACULTY

The courses will be taught by regular faculty members of the LSU College of Business Administration and Engineering or by able, qualified professors from other universities in the state.

CERTIFICATE

Upon completion of four acceptable courses and a certificate application form, the participant will be awarded a Certificate in Engineering Management by the Division of Continuing Education. An Advanced Certificate will be awarded to students who take a total of six courses.

COST

The fee per participant is \$200 for each course and includes the cost of textbooks.

REGISTRATION

To insure that each student will have an opportunity to participate in discussion, enrollment in each section will be limited to 30 students.

Classes will be organized Wed., Jan. 4, 1984 in Room 503, LSU Medical Center, New Orleans - 7:30 PM and on Thurs., Jan. 5, 1984 in Room 3136 CEBA Bldg., LSU, Baton Rouge - 7:30 PM.

Class sessions will be held in the University Medical Center at New Orleans, on the Baton Rouge campus, and in other cities throughout the state where there is adequate demand. To preregister for the classes complete the attached form and return.

AVAILABLE COURSES

- Course A — Modern Management
- Course B — Project Management with CPM/PERT
- Course C — Engineering Economy
- Course D — Financial Decision Making
- Course E — Automation and Computer Aided Manufacturing
- Course F — Basic Engineering Statistics
- Course G — Human Relations
- Course H — Cost Estimating
- Course I — Microcomputers for Decision Making
- Course J — Legal Aspects of Engineering

Please complete the following form and return it to the address below if you are interested in the program. (Classes will begin during the week of Jan. 16, 1984.)

Name _____
 Address _____ Phone _____
 City & State _____ Zip _____

MAIL FORM TO:
 Dr. L. Mann
 Industrial Engineering Dept., CEBA Bldg.
 Louisiana State University
 Baton Rouge, Louisiana 70803-6409

I wish to preregister for the course indicated. (Please show your first choice with a 1, second with a 2, etc. Show a single location choice only.)

COURSES OFFERED

- () Management
- () Project Management
- () Engineering Economy
- () Finance
- () Automation
- () Statistics
- () Human Relations
- () Cost Estimating
- () Microcomputers
- () Legal Aspects

LOCATIONS

- () Baton Rouge
- () New Orleans
- () Monroe
- I cannot attend on the following nights:
 M____T____W____Th____

Consulting Engineers Council to Host Annual Meeting In Nassau

Plans are well underway for the CEC/L Annual Meeting in Nassau, specifically, Paradise Island. The date is April 12-15, 1984. The flight will originate in New Orleans; however, arrangements have been made for those wishing to depart from Monroe, Shreveport, Baton Rouge, and Alexandria to catch planes in these cities and meet the group in Atlanta then fly on to Paradise Island.

You are asked to get your reservation form in immediately to give the travel agency adequate time to firm up airline and hotel reservations. If you need reservation forms, please contact Beltram Travel Agency, 1301 Eastridge Drive, Slidell, Louisiana 70458, (504) 649-0811. The New Orleans number is (504) 524-5644. CEC/L expects a large turnout as a result of the very well planned trip to Cancun, Mexico, where the group held its 1983 Annual Meeting.

You are reminded that for a quicker response, please contact the Beltram Travel Agency directly!

Frivolous Lawsuit Legislation

Consulting Engineers Council of Louisiana (CEC/L) has been giving some consideration to introducing legislation which would offer the design professional some measure of protection against the dreaded frivolous lawsuit.

The simplest method is the "loser pays" law. It states that if a suit is brought to court and the judge rules that the case is frivolous, the plaintiff would be liable for all court costs and attorneys' fees.

The state of California has a different approach. The Consulting Engineers Association of California (CEAC), along with several other design professional organizations, was instrumental in clarifying the language in California's Certificate of Merit law. The law requires that the plaintiff's attorney, when suing a design professional, file a certificate with the court stating that the attorney consulted with a licensed design profession-

al and concluded that there is "reasonable and meritorious cause" for the lawsuit.

Some of the changes to the law, now extended until January 1, 1987, include a provision insuring that the design professional being consulted by the attorney be of the same discipline as the design professional being sued and that college faculty members consulted by the plaintiff's attorney must be licensed to practice in California or another state. Under the old law, a license to practice was not required of teachers in higher education. Other new provisions cover the failure to comply and cross-complaints, including cross-complaints for indemnity.

Would You Accept Partial Services From Your Doctor?

Assume for a moment that you could save (and keep) 20% of the cost of major surgery if you took over responsibility for your own post-operative care, or that you could effect a similar savings in the cost of your defense by stepping in for your attorney at trial. Would you take the risk? From your doctor's point of view, or your lawyer's, would it make any sense at all to even consider giving you the option?

As far-fetched as these propositions might seem, they are not very different from the notion that an architect or an engineer can somehow provide all of the services needed on a building project without following through during construction. The risk is every bit as great, and the question of professional responsibility every bit as relevant. Unfortunately, not all clients see it that way, and the professional liability consequences can be serious.

Unsettling Symptoms

Unsophisticated clients, lacking an understanding of the importance of your role in construction, will seek to cut their front-end costs by eliminating your construction phase services. They assume that when your working drawings are "complete," your work as a designer is finished. They view any continued in-

The Spec Sheet

Consulting Engineers Section

Warren J. Wilder
CEC/L Executive Director



involvement on your part as a largely superfluous expense, one that prudent business people (like themselves) would do well to avoid. The fact that their savings are likely to prove to be false economies is lost on these clients, largely because they harbor wildly unrealistic expectations about the building process. They do not anticipate that problems will arise during construction, nor do they recognize the need to balance your concern with quality against the contractor's concern with time and cost.

There are other clients (and we use the term guardedly) who care not a whit about quality. If there is a cheaper way to do the job, they will find it. Their objective is to maximize a financial advantage. Their strategy is to get in, create value (no matter how temporary it might be), and get out. Regardless of what your contract of hire might say, few of these clients have any intention of paying for your services during construction. Once their building permit is in hand, they have everything they need to transfer the squeeze from you to the contractor. They operate on the certainty born of experience that should they run into problems later, their attorney will find a way to make them whole at someone else's expense.

When the inevitable problems do arise, it will not matter whether your client happened to be the lamb or the predator. Nor, will it matter that the problems might easily have been resolved had you been on the job. If a loss can somehow be attributed to your work, you are likely to find yourself drawn into a costly and time-consuming dispute over who should pay to make it right. And the hard reality is that you cannot avoid liability simply because your client was foolish enough to view your presence on the job-site as an unnecessary extravagance.

An Ounce of Prevention

If there were a single professional ability loss prevention measure you could take that would do more than any

other to reduce your exposure to unwarranted claims, it would be to place yourself in a position to follow through on each and every job you undertake. That this is easier said than done is granted, but there are some steps you can take which should improve your chances for success.

You can begin by strengthening your firm's position on the issue of partial services. In most small firms this is simply a matter of resolve (and communication with a few key people). Larger firms have found it useful to put their policy on design without construction review in writing—including it as an integral part of their firm-wide quality standards. This not only helps make the position of the principals clear, but also affords an opportunity to explain the reasoning behind it and the conditions under which exceptions might be made.

Then, take a critical look at the contracts you sign with your clients, particularly the provisions governing termination, ownership of documents, and payment of fees. Ask yourself these questions: What would happen if this client, for some unknown reason, should decide to remove us from the job at the start of the construction phase? What recourse would we have? Who would own the documents? To what extent would we be protected against the possible consequences of misinterpretation, modification, and misuse? How would we collect the fees we are owed for our work? These considerations may not seem terribly important at the start of the job, when good intentions and goodwill abound, but in the event that your relationship with your client should begin to deteriorate, they can turn out to be critical leverage factors.

Be prepared to spend time with some of your potential clients to create an understanding on their part of the importance of your role in construction. You will need to explain that there is no such thing as a "complete" set of drawings, and that all construction documents are subject to a certain amount of interpretation and to occasional mod-

ification to accommodate conditions encountered in the field.

It would also be best if you were candid about the possibility for error on your part, in spite of your best intentions and exacting quality control. Tell your clients that one of your more important functions in the field is to identify and resolve problems, regardless of their source, before they become costly mistakes built into the job. Try to make certain they understand the conflicting pressures under which the contractor will have to operate, and that working with contractors is not a task to be left to people without a good deal of expertise. Finally, make an effort to convey an appreciation of the professional obligation you have—to them, to the contractor, and to the public—to do everything you can to see that the intended result is reflected in the completed project.

Terminal Cases

Having done all this explaining to a model of perfection in client communications, what happens if your client still refuses to acknowledge that you have an essential role to play during construction? One option is to put your attorney's contract formation skills to the test, take a deep breath, and plunge in anyway. If you choose this option, however, you may want to be prepared to hold your breath for a long time.

A preferable alternative might be to test your own resolve. Remember, not everyone is a suitable client, and some projects may not be worth the risk. Very few architects or engineers (and none that we know) are in a position to set fees high enough to cover the cost of doing work where serious liability problems are built into the job from the outset. On most projects, construction review is no more separable from design than post-operative care is from surgery. Considering the risks involved, there may be no valid reason short of imminent starvation to treat it as if it were.

From: "The Professional Liability Perspective"
(November, 1983)



Marion J. Chaney, P.E.

MARION J. CHANEY, P.E., APPOINTED TO STATE BOARD OF REGISTRATION

Marion J. Chaney, P.E., partner in the architectural and engineering firm of Barron, Heinberg & Brocato, Alexandria, has been appointed by Governor Treen to the Louisiana State Board of Registration for Professional Engineers and Land Surveyors. The appointment became effective November 23 and is for a period of six years.

Chaney replaces Fred Culpepper, P.E., who has been a member of the Board for the past nine years.

He graduated from Louisiana Tech University, Ruston, with a B.S. degree in mechanical engineering in 1955 and is registered in both Louisiana and Mississippi.

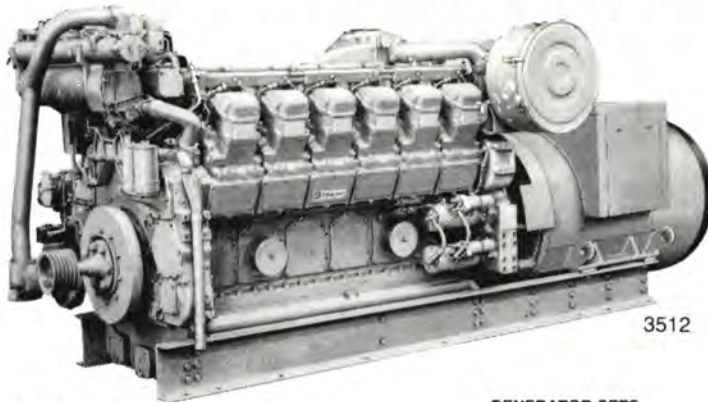
Chaney is a member of the Louisiana Engineering Society, the National Society of Professional Engineers and the American Society of Heating, Refrigeration and Air Conditioning Engineers. He is a past president of the Alexandria Chapter of the LES. Chaney was the 1981 recipient of the Louisiana Engineering Society's Andrew M. Lockett Medal for Civic Activities.

He has served his community in many ways; Councilman-at-Large, City of Alexandria, two terms and past president; past president, Alexandria Lions Club; board member, YMCA; board member, Louisiana Industrial Development Board; and a member of the Alexandria-Pineville Chamber of Commerce.

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LES Member to Head DOTD

Robert G. Graves, P.E. is the designee for the secretary of the Department of Transportation & Development under the upcoming Edwards administration. He will assume the post on March 12, 1984.

Graves was born in New Hebron, Mississippi. He was graduated from Hammond High School, attended Southeastern College in Hammond and transferred to LSU, where he earned a BS degree in civil engineering in 1960. He has been a member of the Louisiana Engineering Society since 1960.

Graves will be leaving his job as president of Dawson Engineers, Inc., Baton Rouge to assume the state post. He has been president of the firm since August 1982. Prior to this position, he was director of Public Works for the East Baton Rouge City-Parish government.

Before the City-Parish position, Graves was with DOTD for many years. He was director of maintenance and field operations in 1980-81. Other jobs held DOTD include coordinating highway engineer, chief construction and maintenance engineer and bridge construction engineer.

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As a young engineer, your development of a keen insight into areas outside, yet related to your chosen field of practice, is important to your successful professional growth.

Due to the fact that modern technology, progress and development have made the traditional ways of meeting today's challenges somewhat obsolete, you will soon see that a working knowledge of our environment, sociology and economics is necessary to your continued professional development.

While your practical expertise can prepare you for the future of your work, the Louisiana Engineering Society can prepare you for the future of your profession. Your involvement in LES activities affords you the self satisfaction of knowing you are a viable part of the forces shaping the future of your profession. Your involvement provides the insight and awareness necessary for your professional success.

This year, at the State Training Conference in Alexandria, program ideas were put forth that, if implemented and carried out would make the Young Engineers Committee of LES a very vital part of the function of our organization. Among the most important of these ideas was to construct an extremely well organized presentation to be presented by Young Engineers of LES to engineering students at the university level. The basis of the presentation would be to convey the importance of their membership and active involvement in their professional organization.

Another important program idea was to use young engineers as speakers at area high schools during Engineer's Week and to act as counselors at their Career Day functions.

Programs such as these require an investment of your time and talent in behalf of important professional concerns. Information on these and other programs will soon be received by the Chapter Young Engineer's Committee Chairman. Please don't wait to ask to participate. Volunteer Now! Whether or not you realize it, as an active member, you are a very important part of LES and as a young engineer, there is no other organization that will respect you as the individual you are and the full professional you are to become.

Your future standing as a professional will be directly proportional to the quantity and quality of contributions you make to engineering professionalism. While a high level of proficiency in your technical specialty is vital, it is simply not enough if engineering and engineers are to maintain true professional status.

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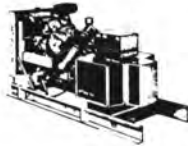
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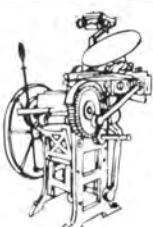
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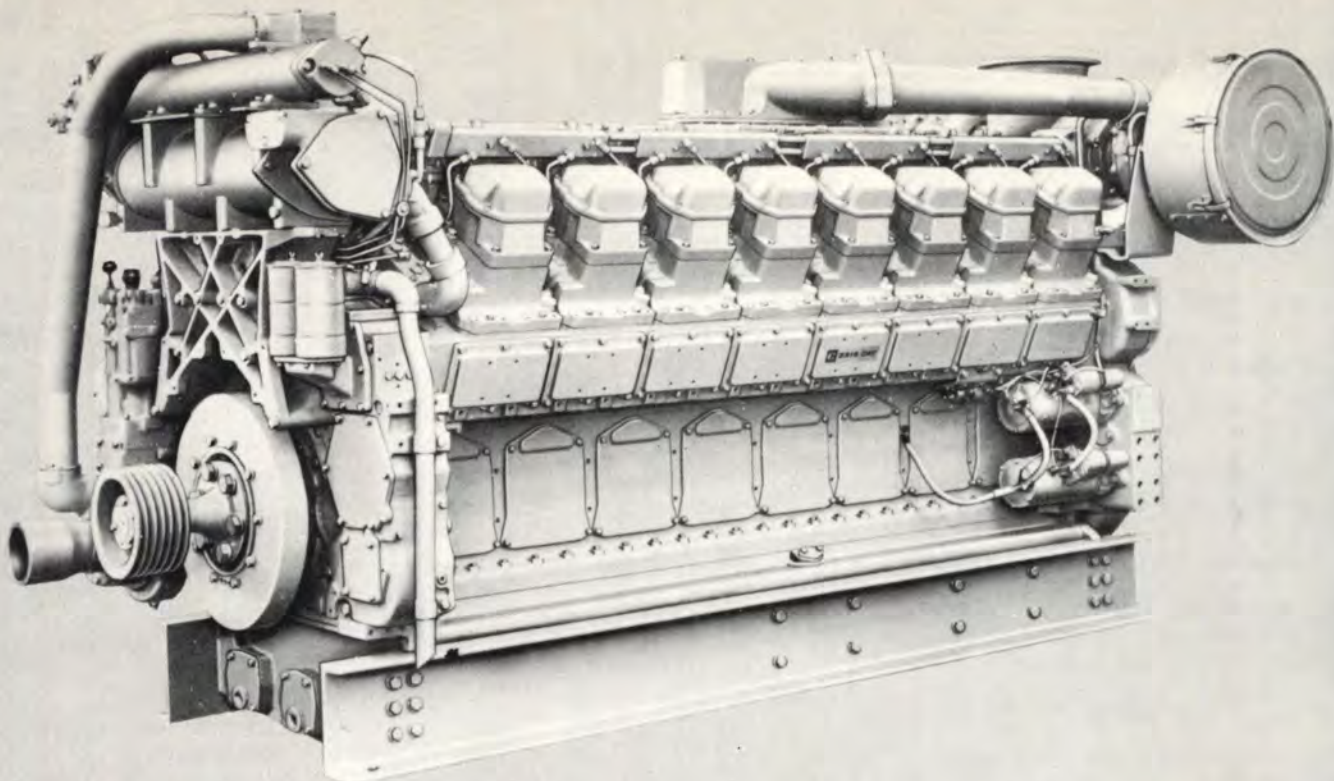


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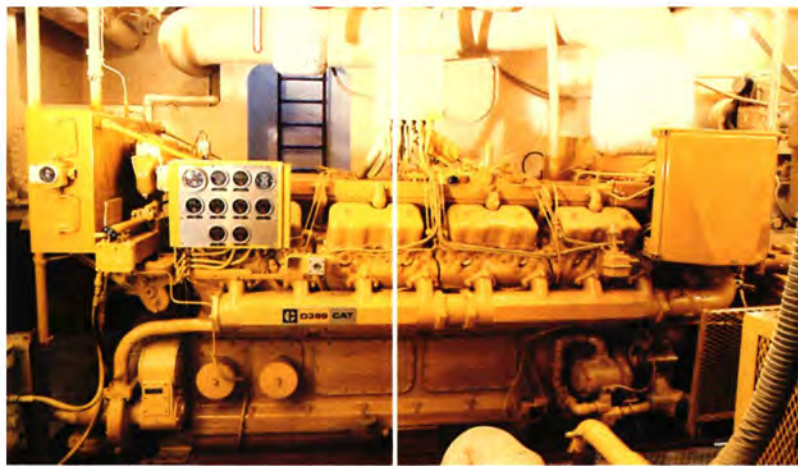
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DIRECTORY**





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1982

LOUISIANA ENGINEER SERVICES DIRECTORY

The Louisiana Engineering Services Directory is an official publication of the Louisiana Engineering Society. The Louisiana Engineering Society does not guarantee the accuracy of statements made or necessarily concur with opinions expressed in this publication.

Address LES Communications and Change of Address Forms to LOUISIANA ENGINEERING SOCIETY, P. O. Box 2683, Baton Rouge, La. 70821. Telephone 504/344-4318; 1213 Nicholson Drive, Baton Rouge, La.

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Lamon L. Moody, Jr., P.E.
President

1982
LOUISIANA
ENGINEERING SOCIETY DIRECTORY

Presidents' Message

The Louisiana Engineering Society is proud to present the 1982-83 Directory issue. In addition to the roster of members, this Directory includes a History of the Society, the Constitution and Bylaws, State Officers, Chapter and Practice Division Officers, Award Recipients over the years and other informative data.

We are grateful to our advertisers for making this Directory possible. Special

thanks to those organizations who subscribed to the "outstanding project" format.

Every effort has been made to make this publication a single source of pertinent information about the Society. We hope you agree that the 1982 Directory was successfully designed to serve our members. The Louisiana Engineering Society welcomes your comments and suggestions.

PAST PRESIDENTS AND SECRETARY-TREASURERS OF LES

Year	President	Sec./Treas.	Year	President	Sec./Treas.
1898	*Sidney F. Lewis	J. F. Coleman	1940	*William H. Rhodes	A. M. Hill
1899	*Thomas L. Raymond	J. F. Coleman	1941	*David W. Stewart	J. K. Mayer
			1942	*C. Glenn Chappel	J. K. Mayer
1900	*Henry J. Malochee	Grevais Lombard	1943	*Karl P. Kammer	J. K. Mayer
1901	*Frank M. Kerr	J. F. Richardson	1944	*Charles M. Kerr	J. K. Mayer
1902	*Alfred F. Theard	G. W. Lawes	1945	*R. A. Steinmaver	J. P. Fernandez
1903	*Alfred Raymond	G. W. Lawes	1946	*Leo J. Lassalle	J. P. Fernandez
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1905	*W. B. Wright	G. W. Lawes	1948	*W. Stone Leake	J. P. Fernandez
1906	*W. H. Hoffman	M. Garsaud	1949	*Hermann L. Lehmann	J. P. Fernandez
1907	*G. W. Lawes	L. C. Datz			
1908	*C. W. Wood	L. C. Datz	1950	Lionel L. Cucullu	J. P. Fernandez
1909	*J. T. Eastwood	L. C. Datz	1951	*Harry P. Newton	J. P. Fernandez
			1952	*John A. McNiven	J. P. Fernandez
1910	*W. B. Gregory	L. C. Datz	1953	Michael C. Abraham	J. P. Fernandez
1911	*J. C. Haugh	Datz & J. M. Robert	1954	Frank W. MacDonald	J. P. Fernandez
1912	*D. S. Anderson	J. M. Robert	1955	R. Mallard Seago	J. P. Fernandez
1913	*A. M. Shaw	J. M. Robert	1956	Wayne P. Wallace	J. P. Fernandez
1914	*W. H. Willilams	W. T. Hogg	1957	Waldemar S. Nelson	J. P. Fernandez
1915	*L. C. Datz	W. T. Hogg	1958	Ernest M. Freeman	J. P. Fernandez
1916	*Samuel M. Young	W. T. Hogg	1959	Roy T. Sessums	J. P. Fernandez
1917	*A. T. Dusenbury	J. M. Robert			
1918	*John Klorer	J. M. Robert	1960	Edward A. McLellan	J. P. Fernandez
1919	*Ole K. Olsen	J. M. Robert	1961	*Ben T. Bogard	J. P. Fernandez
			1962	James S. Janssen	J. P. Fernandez
1920	*John Riess	J. M. Robert	1963	Calvin T. Watts	J. P. Fernandez
1921	*R. S. Manley	J. M. Robert	1964-65**	John T. Knight, Jr.	J. P. Fernandez
1922	*Donald Derickson	J. M. Robert	1965-66	*Charles W. Stokes	J. F. Vogt, Jr.
1923	*J. S. Bareli	F. A. Muth	1966-67	Louis Duclos	J. F. Vogt, Jr.
1924	*J. M. Robert	F. A. Muth	1967-68	Edward J. McNamara	T. J. Hogue, Jr.
1925	*Marcel Garsaud	F. A. Muth	1968-69	Leo M. Odom	T. J. Hogue, Jr.
1926	*Farrar P. Hamilton	F. A. Muth	1969-70	John F. Vogt, Jr.	J. J. Thigpen
1927	*Edward S. Lamphier	F. A. Muth			
1928	*John L. Porter	F. A. Muth	1970-71	A. J. Szabo	J. J. Thigpen
1929	Frederick H. Fox	F. A. Muth	1971-72	T. J. Hogue	M. L. Hurstell
			1972-73	Hoyt W. Brown	M. L. Hurstell
1930	*James M. Todd	F. A. Muth	1973-74	J. J. Thigpen	J. L. Meyer
1931	*Frank G. Frost	F. A. Muth	1974-75	Fred C. Culpepper	C. H. Thomas
1932	F. N. Billingsley	F. A. Muth	1975-76	Malcolm L. Hurstell	C. H. Thomas
1933	*John H. O'Neill	F. A. Muth	1976-77	James L. Meyer	F. C. Roy
1934	*A. L. Dunlap	F. A. Muth	1977-78	E. E. Moncla	J. E. Ritter
1935	*Edward S. Bres	Muth & A. M. Hill	1978-79	Carl H. Thomas	J. E. Ritter
1936	*Allen S. Hacket	A. M. Hill			
1937	*C. S. Williamson	A. M. Hill	1979-80	Francis C. Roy	T. Dudley Hixson
1938	*Bernard H. Grehan	A. M. Hill	1980-81	Jerrel J. Freeman	T. Dudley Hixson
1939	*David W. Godat	A. M. Hill	1981-82	John E. Ritter	Henry E. Markel, Jr.
			1982-83	Lamon L. Moody	Robert P. Blanche

*Deceased

**Due to change in the Administrative Year, this term was lengthened to eighteen months. Col. Knight became the first President whose duties were exclusively those of the state-wide organization and did not include leadership of the New Orleans area. This occurred as a result of a major Constitutional revision to more closely align the LES structure with that of NSPE.

Introducing LES's Board of Direction 1982-83



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Chief, Western Electric
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Division CLECO
Pineville*



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Chief Engineer
Louis J. Capozzoli & Assoc.
Baton Rouge*



*Dale C. Thompson, P.E.
President, Coastal Mechanical
Contractors, Inc.
Houma*

Chapter Presidents

Chapters are the foundation of the Society's organization. Chapters are located at Alexandria, Baton Rouge, Lafayette, Lake Charles, Monroe, New Orleans, Shreveport and the Bayou serving Morgan City, Houma and Thibodaux Areas.



*James E. Bowie, Jr., P.E.
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Civil Engr. USL
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& Company
New Orleans*



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Partner
Nesbit & Partle, Inc.
Shreveport*

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LES has five practice divisions, which provide the means for engineers to develop professional relationships with others in the same field of employment.



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Sr. Electrical
Engineer, NOPSI
New Orleans*



*Private Practice
Michael W. Flores, P.E.
President/Gen. Mgr.
VTN Louisiana, Inc.
New Orleans*

Engineers' Creed

As a Professional Engineer, I dedicate my professional knowledge and skill to the advancement and betterment of human welfare.

I pledge—

To give the utmost of performance;

To participate in none but honest enterprise;

To live and work according to the laws of man and the highest standards of professional conduct;

To place service before profit, the honor and standing of the profession before personal advantage, and the public welfare above all other considerations.

In humility and with need for Divine Guidance, I make this pledge.

*Adopted by
National Society of Professional Engineers
June, 1954*

Louisiana Engineering Society Calendar of Events 1982-1983

September 16, 17, 18, 1982.....	LES Training Conference, Sheraton Inn, Alexandria
September 18, 1982.....	LES Board of Direction Meeting, Alexandria
September, 1982.....	NSPE Mails "Engineers Week" Material to State and Chapters
September 24, 1982.....	Deadline for Copy LOUISIANA ENGINEER, October Issue
September 28, 1982.....	State Board of Registration Meets, New Orleans
September 29, 30, Oct. 1, 1982	NSPE Southwestern Regional Meeting, Keystone, Colorado
October 30, 1982.....	NCEE Exams (PE & EIT) (LSU, Tulane, La. Tech., USL)
November 1, 1982.....	NES/NSPE Dues Notices Mailed to Members for 1983 Dues
November 5, 1982.....	LES Board of Direction Meeting, Houma
November 23, 1982.....	State Board of Registration Meets, New Orleans
November 25, 1982.....	THANKSGIVING DAY
November-December 1982.....	Scholarship Applications to be Collected, Interviews Conducted, Chapter Winners Selected
December 1, 1982.....	Deadline Date for Submitting LES's Six Award Nominees
December 17, 1982.....	LES Board of Direction Meeting, Baton Rouge
December 25, 1982.....	CHRISTMAS DAY
January 3, 1983.....	Deadline Date for Chapters to Submit NSPE/LES Scholarship Applications to State Office
January 14, 1983.....	LES-PEE Start Procedures to Elect Two Members, Engineers Selection Board
January 10-15, 1983.....	NSPE Winter Meeting, Dupont Plaza Hotel, San Juan, P.R.
January 10-11, 1983.....	NSPE Presidents Conference San Juan, P.R.
January 21 1983.....	Deadline for Copy LOUISIANA ENGINEER, February Issue
February 1, 1983.....	Deadline for Submitting Young Engineer Award Nominee to NSPE
February 15, 1983.....	Mardi Gras
February 18, 1983.....	LES Board of Direction Meeting, Monroe
February 20-26, 1983.....	National Engineers Week, Theme: "Turning Ideas Into Reality."
March, 1983.....	LES Nominating Committee Appointed by President
March 25, 1983.....	Deadline for Copy LOUISIANA ENGINEER, April Issue
April, 1983.....	LES Nominating Committee Meets and selects Slate of Officers and Directors for 1983-84
April 3, 1983.....	Easter Sunday
April 7, 8, 9, 1983.....	LES Spring Meeting, Chateau Charles, Lake Charles
April 9, 1983.....	LES Board of Direction Meeting, Lake Charles
May, 1983.....	LES Officer Ballots Mailed to Members
May, 1983.....	Engineers Selection Board Ballots Mailed to All Registered Professional Engineers in State
May 13, 1983.....	LES Board of Direction Meeting, Baton Rouge
May 20, 1983.....	Deadline for Copy, LOUISIANA ENGINEER, June Issue
May 30, 1983.....	MEMORIAL DAY
June 1, 1983.....	Deadline for Return of Engineer Selection Board Ballots
June 10, 1983.....	Deadline for Return of Officer Ballots
June, 1983.....	LES Finance Committee Meets to Prepare 1983-84 Budget
June 16, 17, 18, 1983.....	LES Annual Meeting, Royal d'Iberville Hotel, Biloxi
June 18, 1983.....	LES Board of Direction Meeting, Biloxi
July 11-16, 1983.....	NSPE Annual Meeting, Stouffer's Dayton Plaza, Dayton, Ohio
January 16-21, 1984.....	NSPE Winter Meeting, Sheraton-Palace Hotel, San Francisco
July 9-14, 1984.....	NSPE Annual Meeting, Hyatt Regency Washington, Washington, D.C. (50th Anniversary of NSPE)

Code of Ethics

Preamble

The Engineer, to uphold and advance the honor and dignity of the engineering profession and in keeping with high standards of ethical conduct:

- Will be honest and impartial, and will serve with devotion his employer, his clients, and the public;
- Will strive to increase the competence and prestige of the engineering profession;
- Will use his knowledge and skill for the advancement of human welfare.

Section 1—The Engineer will be guided in all his professional relations by the highest standards of integrity, and will act in professional matters for each client or employer as a faithful agent or trustee.

a. He will be realistic and honest in all estimates, reports, statements, and testimony.

b. He will admit and accept his own errors when proven wrong and refrain from distorting or altering the facts in an attempt to justify his decision.

c. He will advise his client or employer when he believes a project will not be successful.

d. He will not accept outside employment to the detriment of his regular work or interest. Before accepting any outside employment he will notify his employer.

e. He will not attempt to attract an engineer from another employer by false or misleading pretenses.

f. He will not actively participate in strikes, picket lines, or other collective coercive action.

g. He will avoid any act tending to promote his own interest at the expense of the dignity and integrity of the profession.

Section 2—The Engineer will have proper regard for the safety, health, and welfare of the public in the performance of his professional duties. If his engineering judgment is overruled by non-technical authority, he will clearly point out the consequences. He will notify the proper authority of any observed conditions which endanger public safety and health.

a. He will regard his duty to the public welfare as paramount.

b. He shall seek opportunities to be of constructive service in civic affairs and work for the advancement of the safety, health and well-being of his community.

c. He will not complete, sign, or seal plans and/or specifications that are not of a design safe to the public health and welfare and in conformity with accepted engineering standards. If the client or employer insists on such unprofessional conduct, he shall notify the proper authorities and withdraw from further service on the project.

Section 3—The Engineer will avoid all conduct or practice likely to discredit the profession or deceive the public.

a. The Engineer shall not make exaggerated, misleading, deceptive or false statements or claims about his professional qualifications, experience or performance in his brochures, correspondence, listings, advertisements or other public communications.

b. The above prohibitions include, but are not limited to, the use of statements containing a material misrepresentation of fact or omitting a material fact necessary to keep the statement from being misleading; statements intended or likely to create an unjustified expectation; statements containing prediction of future success; statements containing an opinion as to the quality of the Engineer's services; or statements intended or likely to attract clients by the use of showmanship, puffery, or self-laudation, including the use of slogans, jingles, or sensational language or format.

c. Consistent with the foregoing, the Engineer may advertise for recruitment of personnel.

d. Consistent with the foregoing, the Engineer may prepare articles for the lay or technical press. Such articles shall not imply credit to the author for work performed by others.

Section 4—The Engineer will endeavor to extend public knowledge and appreciation of engineering and its achievements and to protect the engineering profession from misrepresentation and misunderstanding.

a. He shall not issue statements, criticisms, or arguments on matters connected with public policy which are inspired or paid for by private interests, unless he indicates on whose behalf he is making the statement.

Section 5—The Engineer will express an opinion of an engineering subject only when founded on adequate knowledge and honest conviction.

a. The Engineer will insist on the use of fact in reference to an engineering project in a group discussion, public forum or publication of articles.

Section 6—The Engineer will undertake engineering assignments for which he will be responsible only when qualified by training or experience; and he will engage, or advise engaging, experts and specialists whenever the client's or employer's interests are best served by such service.

Section 7—The Engineer will not disclose confidential information concerning the business affairs or technical processes of any present or former client or employer without his consent.

a. While in the employ of others, he will not enter promotional efforts or negotiations for work or make arrangements for other employment as a principal or to practice in connection with a specific project for which he has gained particular and specialized knowledge without the consent of all interested parties.

b. He will not, without the consent of all interested parties, participate in or represent an adversary interest in connection with a specific project or proceeding in which he had gained particular specialized knowledge on behalf of a former client or employer.

Section 8—The Engineer shall disclose all known or potential conflicts of interest to his employer or client by promptly informing them of any business connections, interests, or other circumstances which could influence his judgment or the quality of his services, or which might reasonably be construed by others as constituting a conflict of interest.

a. When in public service as a member, advisor, or employee of a governmental body or department, an Engineer shall not participate in considerations or actions with respect to services provided by him or his organization in private engineering practice.

b. An Engineer shall not solicit or accept an engineering contract from a governmental body on which a principal or officer of his organization serves as a member.

Section 9—The Engineer will not accept compensation, financial or otherwise, from more than one interested party for the same service, or for services pertaining to the same work, unless there is full disclosure to and consent of all interested parties.

a. He will not accept financial or other considerations, including free engineering designs, from material or equipment suppliers specifying their product.

b. He will not accept commissions or allowances, directly or indirectly, from contractors or other parties dealing with his clients or employer in connection with work for which he is responsible.

Section 10—The Engineer will uphold the principle of appropriate and adequate compensation for those engaged in engineering work.

a. He will not accept remuneration from either an employee or employment agency for giving employment.

b. When hiring other engineers, he shall offer a salary according to the engineer's qualifications and the recognized standards in the particular geographical area.

c. If in sales employ, he will not offer, or give engineering consultation, or designs, or advice other than specifically applying to the equipment being sold.

Section 11—The Engineer will not compete unfairly with another engineer by attempting to obtain employment or advancement or professional engagements by taking advantage of a salaried position, by criticizing other engineers, or by other improper or questionable methods.

a. He will not pay, or offer to pay, either directly or indirectly, any political contribution, or a gift, or other consideration in order to secure work. He will not pay a commission, percentage or brokerage fee in order to secure work except to bona fide employees or bona fide established commercial or marketing agencies retained by him.

b. Contingency provisions for professional engineering services are not recommended. When a contingency provision must be accepted, however, in order for the Engineer to make available the technical expertise necessary to secure funding for a project for a public body, such acceptance shall not be considered unethical if the engineering agreement assures the engineer of his continued employment once funding arrangements are completed, or full payment be made for his preliminary services (quantum), should his employment be terminated. When a professional commission must be accepted on a contingency basis, an engineer shall not permit his professional judgment to be compromised in order to assure funding of the project.

c. While in a salaried position, he will accept part-time engineering work only at a salary not less than that recognized as standard in the area.

d. An Engineer will not use equipment, supplies, laboratory, or office facilities of his employer to carry on outside private practice without consent.

e. An Engineer will not use "free engineering" as a device to solicit or otherwise secure subsequent paid engineering assignments.

Section 12—The Engineer will not attempt to injure, maliciously or falsely, directly or indirectly, the professional reputation, prospects, practice or employment of another engineer, nor will he indiscriminately criticize another engineer's work. If he believes that another engineer is guilty of unethical or illegal practice, he shall present such information to the proper authority for action.

a. An Engineer in private practice will not review the work of another engineer for the same client, except with the knowledge of such engineer, or unless the connection of such engineer with the work has been terminated.

b. An Engineer in governmental, industrial or educational employ is entitled to review and evaluate the work of other engineers when so required by his employment duties.

c. An Engineer in sales or industrial employ is entitled to make engineering comparisons of his products with products by other suppliers.

Section 13—The Engineer will not associate with or allow the use of his name by an enterprise of questionable character, nor will he become professionally associated with engineers who do not conform to ethical practices, or with persons not legally qualified to render the professional services for which the association is intended.

a. He will conform with registration laws in his practice of engineering.

b. He will not use association with a nonengineer, a corporation, or partnership, as a "cloak" for unethical acts, but must accept personal responsibility for his professional acts.

Section 14—The Engineer will give credit for engineering work to those to whom credit is due, and will recognize the proprietary interests of others.

a. Whenever possible, he will name the person or persons who may be individually responsible for designs, inventions, writings, or other accomplishments.

b. When an Engineer uses designs supplied to him by a client, the designs remain the property of the client and should not be duplicated by the Engineer for others without express permission.

c. Before undertaking work for others in connection with which he may make improvements, plans, designs, inventions, or other records which may justify copyrights or patents, the Engineer should enter into a positive agreement regarding the ownership.

d. Designs, data, records, and notes made by an engineer and referring exclusively to his employer's work are his employer's property.

Section 15—The Engineer will cooperate in extending the effectiveness of the profession by interchanging information and experience with other engineers and students, and will endeavor to provide opportunity for the professional development and advancement of engineers under his supervision.

a. He will encourage his engineering employees' efforts to improve their education.

b. He will encourage engineering employees to attend and present papers at professional and technical society meetings.

c. He will urge his engineering employees to become registered at the earliest possible date.

d. He will assign a professional engineer duties of a nature to utilize his full training and experience, insofar as possible, and delegate lesser functions to subprofessionals or to technicians.

e. He will provide a prospective engineering employee with complete information on working conditions and his proposed status of employment, and after employment will keep him informed of any changes in them.

Statement by NSPE Executive Committee

In order to correct misunderstandings which have been indicated in some instances since the issuance of the Supreme Court decision and the entry of the Final Judgment, it is noted that in its decision of April 25, 1978, the Supreme Court of the United States declared: "The Sherman Act does not require competitive bidding."

It is further noted that as made clear in the Supreme Court decision:

1. Engineers and firms may individually refuse to bid for engineering services.

2. Clients are not required to seek bids for engineering services.

3. Federal, state, and local laws governing procedures to procure engineering services are not affected, and remain in full force and effect.

4. State societies and local chapters are free to actively and aggressively seek legislation for professional selection and negotiation procedures by public agencies.

5. State registration board rules of professional conduct, including rules prohibiting competitive bidding for engineering services, are not affected and remain in full force and effect. State registration boards with authority to adopt rules of professional conduct may adopt rules governing procedures to obtain engineering services.

6. As noted by the Supreme Court, "nothing in the judgment prevents NSPE and its members from attempting to influence governmental action . . ."

Note: In regard to the question of application of the Code to corporations vis-a-vis real persons, business form or type should not negate nor influence conformance of individuals to the Code. The Code deals with professional services, which services must be performed by real persons. Real persons in turn establish and implement policies within business structures. The Code is clearly written to apply to the Engineer and it is incumbent on a member of LES to endeavor to live up to its provisions. This applies to all pertinent sections of the Code.

LES Code of Ethics, As Adopted November 2, 1979

Louisiana Engineering Foundation (LEF)

The Louisiana Engineering Foundation was incorporated in 1978 and formed exclusively for charitable, educational and scientific purposes including:

1) The granting of scholarships and providing guidance to students who wish to obtain instruction and training in engineering. A \$1500 scholarship will be presented this year to a full time graduate engineering student who expresses a sincere desire to enter the teaching profession at the university level.

2) To conduct and support programs for education in engineering subjects.

3) To disseminate engineering information beneficial to the interested public.

4) To establish and maintain an engineering center.

In order to fulfill its goals and to retire a \$65,000 debt on the current headquarters building, contributions and endowments are needed. Every engineer during his or her career, and every organization employing engineers should support the improvement of the profession. The Foundation is one good way this can be done.

Contributions of \$500 or more places one on the Honor Roll; a Founder contributes \$100 to \$499; a Patron \$50 to \$99; and a Sponsor up to \$50. Special contributions may be made "in memory of" a deceased friend or relative to the Foundation. All contributions are tax deductible.

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The Louisiana Engineering Society is composed of approximately 32% of the registered professional engineers and engineers-in-training living and working in Louisiana. The legislature asks us every year why LES claims they represent the engineering profession in Louisiana and why LES makes nominations to the Governor for many Boards and agencies in state government. Our best answer: LES has the most representation of any engineering organization in the state. No other organization comes close. While this is true, we would be a lot stronger if we could claim more than 50% of all engineers in the state as members. Why do so many of you that receive the LOUISIANA ENGINEER fail to participate in your professional society?

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Almost 3,700 engineers are already members of LES. They ask you to join with them to make LES even bigger and more successful in its operation. More members mean adequate finances and manpower to give LES the necessary tools to carry through its all-inclusive programs for Louisiana engineers. It is only through the 8,860 Louisiana Professional Engineers and EIT's that an effective VOICE for the engineering profession can be heard. Help us to tell legislators that LES has more than 50% of all engineers in the state as members.

You are an engineer. It is your profession. Why procrastinate? Join today! Fill in the form below, clip or reproduce and mail to LES, P.O. Box 2683, Baton Rouge, La. 70821. NSPE and LES dues total \$94 a year (26 cents a day). A very small investment for your profession.

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GENTLEMEN:

I hereby apply for admission into the Louisiana Engineering Society and agree to comply with the Constitution and Bylaws and the Code of Ethics of the Society. I also apply for admission into the National Society of Professional Engineers, if qualified and if I have indicated 'yes' to question No. 8 opposite.

Please assign me to the Chapter Checked below:

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2.

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Introducing your Board: Chairman



H. L. Henry, P.E.

H. L. Henry received a B.S. in Mechanical-Electrical Engineering at Louisiana Polytechnic Institute 1940, M.S. in Mechanical Engineering, Illinois Institute of Technology 1946.

Additional graduate study at University of Arkansas Graduate Assistant and Instructor, Illinois Institute of Technology 1940 - 1946

Assistant Professor and Associate Professor of Mechanical Engineering, La. Tech 1946 - 1951 Design Engineer and Project Engineer, Dow Chemical Co., Freeport, Texas 1951 - 1955, 1955 to present, Associate Professor of M.E., Professor of M.E., Head of General Engineering Department, Head of Industrial Engineering and Computer

Science, and Associate Dean of Engineering at Louisiana Tech University. Engineering specialties, engineering economic analysis, steam-electric power plants and construction contracts.

Edward J. McNamara, P.E.

Edward J. McNamara is a native of Thibodaux, Louisiana. He was educated in the public schools there and entered Tulane University in 1932, receiving his Civil Engineering Degree in 1937.

He was employed by Freeport Sulphur Company upon graduation. His career with Freeport found him holding many varied positions in engineering design, construction, maintenance, mining operations and project management. Elected a Vice President in 1968, he was responsible for the Engineering and Research and Development Departments for the parent company Freeport Minerals Company in the United States and abroad for many years. He retired from Freeport-McMoRan Incorporated in July 1981. He formed his own consulting engineering business immediately upon retiring from Freeport.

He served his country in World War II

and the Korean Conflict as a commissioned officer in the U.S. Navy Civil Engineer Corps retiring as a Commander in 1960.

A past president of the Louisiana Engineering Society, he is also a Fellow and Life Member of the American Society of Civil Engineers and has served on various national committees for ASCE. He is also a member of the National Society of Professional Engineers and the Society of American Military Engineers.

A registered professional engineer in several states, and a licensed professional land surveyor in Louisiana, he is presently serving as Vice Chairman of the Louisiana State Board of Professional Engineers and Land Surveyors. He was appointed to the Board of Registration by Governor Edwin Edwards in August 1978.



Arthur R. Theis, P.E.



Arthur R. Theis is a native of Louisiana, born and raised in Shreveport. Attended public schools in Shreveport, Louisiana.

After serving in both World War II and the Korean Conflict graduated from Louisiana Tech with a B.S. in Civil Engineering.

Presently resides in Baton Rouge, Louisiana, with office at the State Capitol Annex.

Employed by the Office of Public Works, Department of Transportation and Development, since June 1953. Has served in various capacities from resident engineer through the position of Assistant Chief Engineer. Assumed duties as Public Works Chief Engineer on April 1, 1976.

Has served on numerous committees related to water resources development, land use planning, and beach erosion.

Author of several articles published in regard to Louisiana coastal beach erosion. Served as consultant to U.S. Corps of Engineers, Chief of Engineers on Shoreline Erosion Advisory Panel. Has also represented Louisiana on numerous engineering committees related to compact commissions and flood control.

Represents State of Louisiana as Commissioner on Red River Compact.

Member of Louisiana Engineering Society and National Society of Professional Engineers. Serves as a member of the State Board of Registration for Professional Engineers and Land Surveyors.

Verdi Adam, P.E.

Verdi Adam, presently Director of Maintenance and Field Operations Division for the Louisiana Department of Transportation and Development, graduated from Louisiana State University, with a Masters of Science Degree in Civil Engineering.

He has been employed by the Louisiana Department of Highways (renamed Department of Transportation and Development) since 1953 in various capacities ranging from Bituminous Research Engineer, Highway Research Engineer, Research and Development Engineer, Materials and Research Engineer, Assistant Chief Engineer, Director of Construction & Services Division, Highway Chief Engineer, and Deputy Assistant Secretary.

During 1975 he was employed by a consultant engineering firm as Regional Manager to supervise international highway engineering training. Subsequently, he was employed by the Federal

Highway Administration as the Chief Paving and Structural Materials Engineering in Washington, D.C.

He has been active in AASHTO and is presently serving as Secretary of the Highway Transport Subcommittee and a past member of the Materials Subcommittee and past Chairman of the Bituminous Materials Technical Section.

He is an Honor Member of Chi Epsilon National Civil Engineering Honor Society.

He is also serving on numerous panels for the National Academy of Sciences, Transportation Research Board's National Cooperative Highway Research Program.

He has authored many reports and presented numerous papers and was awarded the National Asphalt Pavement Association Industry Award in 1970 for recognition of his efforts to improve the quality of bituminous construction in the United States.



A. J. Brouillette, L.S.



A. J. Brouillette is a charter member of the Louisiana Land Surveyors Association and a member of the American Congress of Surveying and Mapping. He has served on the LLSA Board of Directors and on the Legislative Committee. In 1975 he became the first Surveyor member appointed to the Louisiana State Board of Registration for Professional Engineers and Land Surveyors. On the Board he is Chairman of the Land Surveying Committee and is on the examinations committee. He served as Secretary of the Board in 1978. He also serves on the National Land Surveying Committee with the National Council of Engineering Examiners. He has been a Registered Land Surveyor since 1955 and has been in private practice as a Land Surveyor since 1956 in Natchitoches,

Louisiana. In 1980 he was the recipient of the "Surveyor of the Year" award at the annual meeting of LLSA. A distinguished service award and was awarded him the same year at the Southern Zone meeting of the National Council of Engineering Examiners.

At the present time he is a Principal in the firm of Brouillette, Giering and Associates, Inc., Consulting Engineers and Land Surveyors in Natchitoches, Louisiana.

A. J. is a World War II Navy veteran, is now residing in Natchitoches, Louisiana. He is married to Florine Borell and is the father of four children. He is on the Board of Directors of Exchange Bank and Trust of Natchitoches, is a member of the American Legion and of Knights of Columbus Council 1327.

Fred C. Culpepper, Jr., P.E.

Fred Culpepper, President of Culpepper Enterprises, Ltd., a management consulting firm, graduated from Virginia Military Institute with a Bachelor of Science degree in Civil Engineering.

After graduation from college he worked for United Gas Pipeline Company. In 1942 he became associated with Ford, Bacon & Davis Construction Corporation as a Junior Engineer. He served in various capacities in the field and in the office. He was elected a Director of the parent firm, Ford, Bacon & Davis Inc. in New York, in 1963. He ultimately became President and Chief Operating Officer of all Ford, Bacon & Davis activities, both nationally and internationally. In 1979 the company was purchased by Deutsche Babcock, a German firm. Culpepper resigned from active participation in the firm and formed his own company to do specialized consulting.

Active in business, professional, and civic affairs, he has served as President of the Louisiana Engineering Society, Chairman of the National Constructors

Association, President of the U.S. & Overseas Employees Tax Fairness Committee, Southern Gas Association, Pulp and Paper Foundation, Boy Scouts of America Area Council, and Junior Achievement of Monroe. He was President of the United Way and Bayou DeSiard Country Club. He serves on the Session of First Presbyterian Church in Monroe, and is Chairman of the Board of Evergreen Presbyterian Vocation School in Minden.

A licensed Professional Engineer in 12 states, Culpepper has been awarded by the Louisiana Engineering Society the A. B. Paterson Medal for accomplishments as an engineer in the field of management and the Leo M. Odom Award for distinguished service to the engineering profession. He has been cited by *Engineering News-Record* for accomplishments in construction. He is currently serving on the Board of Directors of the National Council of Engineering Examiners and is Vice President of the Southern Zone.



Chris Demopolus, P.E.



Chris Demopolus graduated from Texas A&M with a B.S. in Engineering in 1947.

His professional activity has been concentrated in the consulting engineering field as a civil and structural engineer. He was with E. M. Freeman and Associates, Shreveport, from July 1947 - December 31, 1952. He was co-founder of the firm of Demopolus and Ferguson starting the firm January 1, 1953. The firm has designed many projects in the past twenty-nine (29) years including water and waste treatment plants, water distribution systems, sewage systems, highways, bridges, flood control, buildings and special structures for municipal, State and Federal Agencies, industrial and private enterprises.

Demopolus has been active in many professional societies and civic organiza-

tions. He is a Fellow in the American Society of Civil Engineers and the American Council of Consulting Engineers. He holds a Certificate of Qualification from the National Council of State Boards of Engineering Examiners issued in 1965 and is currently registered as a professional engineer in Louisiana, Texas, Arkansas, Oklahoma and Pennsylvania. He has been a member of the Louisiana Board of Registration for Professional Engineers and Land Surveyors since 1977.

He is the recipient of the 1979 Engineer of the Year Award from the Engineering & Scientific Council of Shreveport and the 1980 A. E. Wilder, Jr. Award from the Consulting Engineers Council of Louisiana.

James L. Meyer, P.E.

James L. Meyer, P.E., Founder and President of Meyer, Meyer, LaCroix & Hixson, Inc., Consulting Engineers and Land Surveyors, graduated from Louisiana Tech with a Bachelor of Science Degree in Chemical Engineering, 1956, and with a Masters of Science Degree in Civil Engineering, 1965.

Upon graduation, he worked in industry for approximately one year, leaving Gulf Oil Corporation in 1957 for a three year tour in the U.S. Air Force.

His consulting engineering experience began in 1960 when he was employed by Louis J. Daigre Associates in Alexandria. In 1962 he returned to Louisiana Tech as a graduate student and part-time faculty member. After receiving his masters degree in 1965 he was employed as an instructor of Civil Engineering until 1966.

From 1966 to 1968 he was again employed by Louis J. Daigre Associates. In 1968 he founded James L. Meyer & Associates, Consulting Engineers and Land Surveyors, the parent company of Meyer, Meyer, LaCroix & Hixson, Inc.

His professional activities have included President, First and Second Vice-Presidents, Secretary-Treasurer, Board Member and Practice Division Chairman of the State Louisiana Engineering Society, and similar positions at the Chapter level. He has also served as Chapter President and on the Board for the Consulting Engineers Council of Louisiana, and is a National Committee Chairman for the American Consulting Engineers Council. He is a member of the American Waterworks Association and the Water Pollution Control Federation.

Honors which he has received are the Louisiana Engineering Society Leo M. Odom Award, and is a Life Member of Tau Beta Pi.

He is currently President of the Louisiana Tech Engineering Foundation, Inc., having served previously as Area Vice-President and Board Member.

He is active in St. Timothy's Episcopal Church having served as Junior Warden and Treasurer.



In civic matters he is a member of the Alexandria-Pineville Chamber of Commerce, the Rotary Club of Alexandria, and currently serves as President of the United Way of Central Louisiana, having served previously as Vice-President, Board Member and Campaign Co-Chairman. He is a member of the Industrial Development Board of Central Louisiana.

James W. Reeves, Ph.D., P.E.



James W. Reeves, presently Dean of the College of Engineering at the University of Southwestern Louisiana, was born and reared in Covington, Louisiana. He attended Louisiana State University where he obtained a B.S. degree in Civil Engineering in 1952 and an M.S. degree in Civil Engineering in 1959. He was awarded a National Science Foundation Faculty Fellowship to attend the University of Arizona, where he received his Ph.D. degree in Civil Engineering in 1970.

Following his B.S. degree and after working a year for Chance-Vought Aircraft in Dallas, Texas, he entered the U.S. Navy as an Ensign in the Civil Engineer Corps. During the three-year tour in the Navy, he served as Company Commander and Projects Officer with a Seabee construction battalion in the Philippine Islands, and as Maintenance Officer of the U.S. Naval Air Station in Corpus Christi, Texas. In 1956 he returned to civilian life and worked as a design engineer for the Louisiana Department of Public Works, and later for George

Covert & Associates, consulting engineers, in Baton Rouge.

He has been a faculty member at U.S.L. since first joining the civil engineering faculty in 1959. After serving three years as Head of the Civil Engineering Department, he was appointed Dean of the College of Engineering in 1972.

He has participated in a long list of consulting work and has several publications in the field of structural engineering. He has been a registered professional engineer since 1952 and holds membership in the American Society of Civil Engineers, American Society for Engineering Education, Louisiana Engineering Society, National Society of Professional Engineers and several honorary societies. He is presently serving on the Board of Directors for the Louisiana Engineering Foundation.

He is a recipient of a Halliburton Education Foundation Award for Excellence in Teaching and is listed in several biographical compendia such as Who's Who and Outstanding Educators of America.

Francis C. Roy, P.E.

Francis C. Roy, P.E. is Vice-President of Industrial Equipment and Engineering, Inc. in Lake Charles. He has been associated with that firm since 1965. The company deals in electrical power equipment and controls, pumps and compressors, unitized specialty oilfield equipment, and manufacture pressure vessels. Prior to being in Lake Charles, Roy was Associate Professor of Electrical Engineering (1955 - 65) at Louisiana Tech University in Ruston. Earlier employment, after receiving the B.S. in EE from LSU (Baton Rouge) in 1949, covered three years each with Allis Chalmers in Milwaukee, WI, and as Instructor of Physical Sciences at the Jeff-Davis Technical-Vocational School in Jennings.

A native of Iota, he holds the M.S. in EE from the University of Texas (Austin) and is a member of Tau Beta Pi (honorary

engineering) and Eta Kappa Nu (honorary EE) fraternities. Roy holds membership in the NSPE, LES, and is a Senior Member of IEEE. He is past state President of the LES, and was selected this year to receive the Leo M. Odom Award for Professional Services. For the past four years, he has served as a member of the Educational Council Steering Committee for the Louisiana Association of Business and Industry (LABI).

Roy is married to the former Pauline Dischler of Rayne. They have three children, Mary Monica Roy of Houston, TX, Dr. Michael A. Roy of San Francisco CA, and Richard R. Roy, deceased.

Listing include Who's Who in the South and Southwest Dictionary of International Biography, and Who's Who in Engineering.



LES AWARDS PROGRAM

The recognition of fellow engineers has always been an important program of the Louisiana Engineering Society. It is the Society's belief that honors and awards should be given deserving members so that public recognition of their attainment will inspire others.

The Society has six basic awards:

The Andrew M. Lockett Award for Civic Activities—This award consists of a cast bronze medal and certificate. The cost is underwritten by the Society.

The A.B. Paterson Award for an Engineer in Management—This award consists of a cast bronze medal and certificate. Its cost is underwritten by New Orleans Public Service Incorporated.

The Charles M. Kerr Public Relations Award—This award consists of a wall plaque. Its cost is underwritten by the Society.

The James M. Todd Technological Accomplishment Award—This award consists of a cast bronze medal and certificate. The cost is underwritten by the Society.

The F. Hugh Coughlin Young Engineer Award—This award consists of a key and certificate. The cost is underwritten by interest from utility stocks presented by Mr. Coughlin.

The Leo M. Odom Professional Service Award—This award consists of a wall plaque. The cost is underwritten by friends of Mr. Leo M. Odom.

CRITERIA GOVERNING THE AWARD of the LOUISIANA ENGINEERING SOCIETY FOR CIVIC ACTIVITIES THE ANDREW M. LOCKETT MEDAL

The Louisiana Engineering Society Civic Activities Award

The Andrew M. Lockett Medal

will be awarded as conditions warrant, but not more often than annually, for

Distinguished Civic Service

by an Engineer, in the interest of the Public, without compensation for those services.

The character and scope of the services rendered are the predominant criteria, rather than strictly engineering or scientific attainments.

The desire of the Society is not only to recognize the recipient but to encourage and inspire other engineers to take a greater part in the civic well being of their communities, parishes and the State of Louisiana.

The award is named in honor of Andrew M. Lockett, P.E., a distinguished member of the Society from 1900 until his death in 1945. Mr. Lockett was a strong advocate for engineers to get involved in civic activities.

RECIPIENTS

Lester F. Alexander	1951	U. J. Gajan	1967
Harold C. Leonard	1952	H. Nash Ogden	1968
A. B. Paterson	1953	Not Awarded	1969
Arthur J. Naquin	1954	Dean Ben T. Bogard	1970
Not Awarded	1955	Max M. Merrick	1971
Homer G. Fritchie	1956	James S. Janssen	1972
Frank Hugh Coughlin	1957	Elmer E. Shutts	1973
Neville Levy	1958	Irwin R. Schneider	1974
Not Awarded	1959	Charles A. Killgore	1975
Franklyn G. Hornsby	1960	D. Allan Collette, Jr.	1976
Clayton L. Nairne	1961	Frank H. Walk	1977
Not Awarded	1962	Paul W. Murrill	1978
Richard R. L. Ward	1963	Hugh B. Balfour	1979
W. J. Evans	1964	Edward W. Midlam	1980
Edwards S. Bres	1965	Marion J. Chaney	1981
Jeffrey H. Collins	1966	Rodney M. Vincent	1982

CRITERIA GOVERNING THE AWARD of the LOUISIANA ENGINEERING SOCIETY LEO M. ODOM PROFESSIONAL SERVICE AWARD

The Louisiana Engineering Society Professional Service Award will be given as conditions warrant, but not more than annually, for
Distinguished Service to the Engineering
Profession in Louisiana

by a registered Professional Engineer member of the Louisiana Engineering Society, over a period of long duration, in an unselfish manner and in keeping with the highest profession standards of conduct, including active participation and leadership in the technical societies as well as in this and other professional engineering groups.

The character, scope and duration of the services rendered are the predominant criteria, rather than strictly engineering or scientific attainments.

The desire of the Society is not only to recognize the recipient but to encourage and inspire other engineers to take a greater part in the advancement of the profession in its service to mankind.

The award is named in honor of Leo M. Odom, P.E., president of the Society in 1968-69, active member since 1942, and the award's first recipient.

RECIPIENTS

Leo M. Odom	1972
Roger W. Richardson	1973
Marshall B. Ewing	1974
Farrell W. Adams	1974
A. J. Szabo	1976
Waldemar S. Nelson	1977
J. J. Thigpen	1978
Fred C. Culpepper, Jr.	1979
David L. Johnson	1980
James. L. Meyer	1981
Francis C. Roy	1982

**CRITERIA
GOVERNING THE AWARD
of the
LOUISIANA ENGINEERING SOCIETY
JAMES M. TODD
TECHNOLOGICAL ACCOMPLISHMENT
MEDAL**

The Louisiana Engineering Society Medal will be awarded as conditions warrant, but not more often than annually, for

Distinguished Service by an Engineer
for

Technological Advancement or Discoveries as contributions to the advancement of Engineering.

The purpose of honoring Engineers with this award is to encourage and inspire other engineers to reach even greater heights of professional achievement.

The award is named in honor of James M. Todd, P.E., president in 1930 and an active member of the Society until his death in 1971. Mr. Todd suggested the formation of an award for engineering ingenuity in 1950.

RECIPIENTS

A. Baldwin Wood	1951	Clifford M. Cockrell	1967
Edwin L. Dennis	1952	Not Awarded	1968
C. Glenn Cappel	1953	Not Awarded	1969
Alexis Voorhies	1954	Paul Whitfield Murrill	1970
Not Awarded	1955	Roger W. Richardson	1971
Wiley D. Poole	1956	Not Awarded	1972
Irven E. Hanson	1957	George L. Heller	1973
Jesse Coates	1958	Frank W. Macdonald	1974
William B. Gurney	1959	Walter E. Blessey	1975
Robert J. Kuhn	1960	Philip W. Bohne	1976
Not Awarded	1961	John C. Copes	1977
Not Awarded	1962	Louis J. Capozzoli, Jr.	1978
Not Awarded	1963	Pierre A. Lapeyre	1979
Joseph H. Barnwell	1964	Not Awarded	1980
Armand L. Willoz	1965	J. Bres Eustis	1981
Frederick William Zur Burg .	1966	Hugh A. Thompson	1982

**CRITERIA
GOVERNING THE AWARD
of the
LOUISIANA ENGINEERING SOCIETY
FOR AN ENGINEER IN MANAGEMENT
THE A. B. PATERSON MEDAL**

The Louisiana Engineering Society Engineer-In-Management Award,

The A. B. Paterson Medal

will be awarded as conditions warrant, but not more often than annually, for

Distinguished Service in Management
by an Engineer

Achievements in management rather than engineering or scientific attainments shall be the primary criteria for the selection of the recipient.

The desire of the Society is not only to recognize the recipient but to encourage and inspire other engineers to greater effort in the field of Business Management.

This award is named in honor of A. B. Paterson, P.E., and active member of the Society from 1923 until his death in 1952. Mr. Paterson was an engineer, administrator, executive, banker, civic leader and humanitarian.

RECIPIENTS

John R. Gaugler	1965
Harrell R. Smith	1966
Vertrees Young	1967
Z. W. Bartlett	1968
Not Awarded	1969
J. W. Affolter, Jr.	1970
Lionel J. Cucullu	1971
Fred C. Culpepper	1972
Clayton L. Nairne	1973

Andrew M. Moore	1974
William McCollam, Jr.	1975
Robert E. Chappuis	1976
Raymond E. Pillow	1977
Edward J. McNamara	1978
Roger P. Guissinger	1979
Malcom L. Hurstell	1980
Lamon L. Moody	1981
Waldemar S. Nelson	1982

CRITERIA GOVERNING THE AWARD of the LOUISIANA ENGINEERING SOCIETY F. HUGH COUGHLIN YOUNG ENGINEER KEY AND CERTIFICATE

The Louisiana Engineering Society F. Hugh Coughlin Young Engineer Award

Key and Certificate

will be awarded as conditions warrant, but not more often than annually, to an engineer not over thirty-five (35) years of age who has demonstrated to a high degree capabilities in his chosen field of engineering, thereby indicating potential for further advancement and leadership as a professional engineer.

The desire of the Society is not only to recognize the recipient but to encourage and inspire young engineers with a desire to reach greater heights of professional achievement and service.

This award is named in honor of F. Hugh Coughlin, P.E., a distinguished member of the Society from 1944 until his death in 1980. His interest and support of young engineers was instrumental in the establishment of this award.

RECIPIENTS

Dr. Randall F. Barron	1967
Dr. Olin K. Dart	1968
Dr. Cecil L. Smith, Jr.	1969
Dr. Daniel D. Reneau	1970
David S. Huval	1971
Dr. Rodolfo J. Aguilar	1972
Blaise M. Carriere	1973
E. Raymond DesOrmeaux	1974
J. Alvin Badeaux	1975
Eric J. Guilbeau	1976
John W. Moore	1977
John J. Bergeron	1978
James F. Guion	1979
Kerry J. LaBauve	1980
Dale T. Hunn	1981
Michael V. Aderman	1982

**CRITERIA
GOVERNING THE AWARD
of the
LOUISIANA ENGINEERING SOCIETY
CHARLES M. KERR
PUBLIC RELATIONS AWARD**

The Louisiana Engineering Society Public Relations Award
The Charles M. Kerr Plaque

will be awarded as conditions warrant, but not more often than annually, for

Distinguished Service by an Engineer
in

Promotion of the Public Relations Program
for the Engineering Profession in Louisiana.

The character and scope of the contributions to the Society's overall public relations program internally and/or externally is the predominant criteria, rather than strictly engineering accomplishments. Officers of the Society and members of the LES Public Relations Committee are not eligible for the award.

The desire of the Society is not only to recognize the recipient but to encourage and inspire other engineers to take a greater part in the Society's public relations program in their communities, parishes and the State of Louisiana.

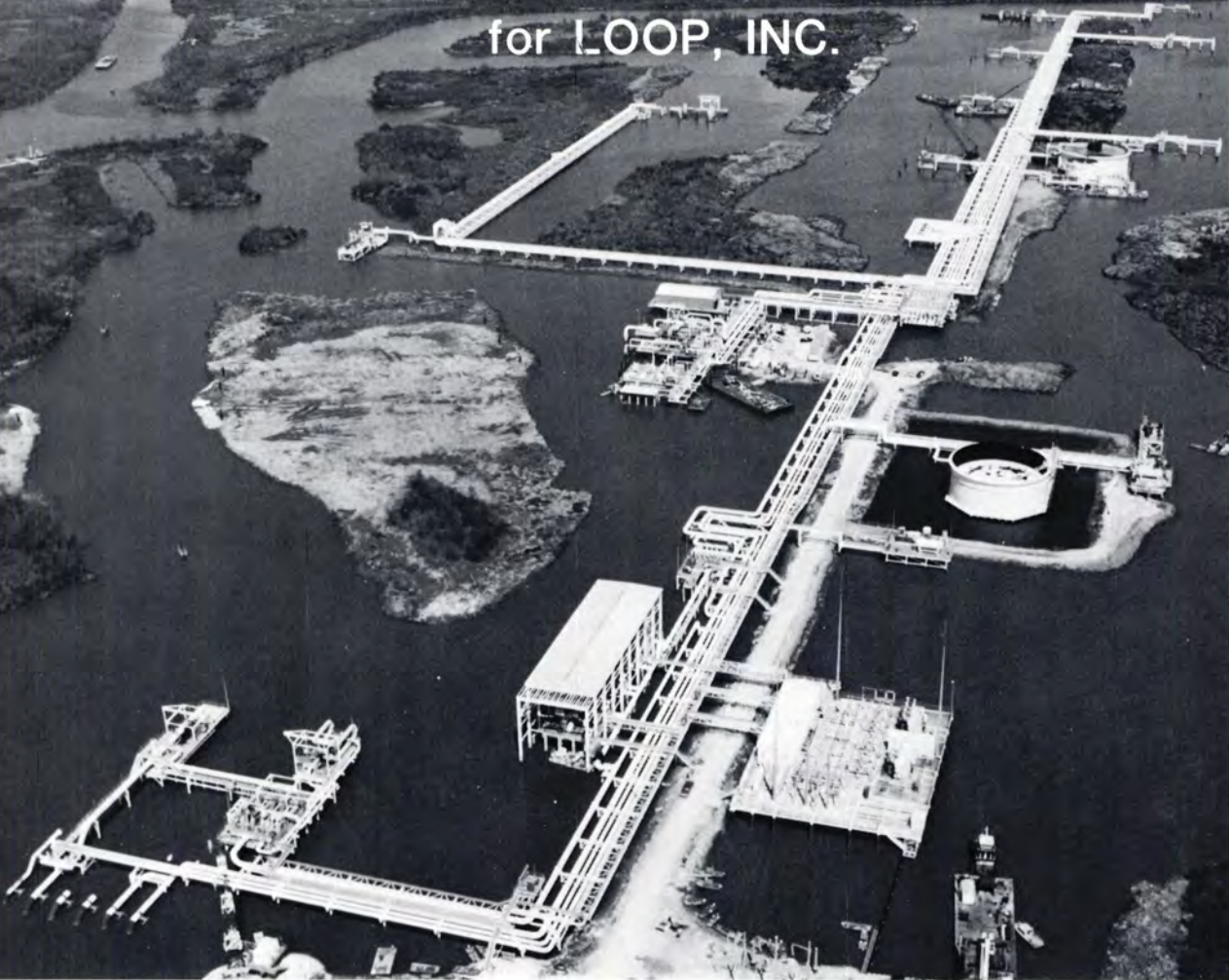
The award is named in honor of Charles M. Kerr, P.E., LES President in 1954 and a member of the Society from 1912 until his death in 1964. Mr. Kerr was very active in the business world in promoting his chosen profession, engineering.

RECIPIENTS

J. Mason Guillory	1965
Not Awarded	1966-70
Lamon Moody, Jr.	1971
Not Awarded	1972
Leo M. Odom	1973
Roy T. Sessums	1974
Waldemar S. Nelson	1975
Not Awarded	1976-77
Daniel H. Vliet	1978
James S. Janssen	1979
Not Awarded	1980
Not Awarded	1981
Not Awarded	1982

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—A—

Abadie, Paul J.-7-IND
 Abadie, Randall J.-7-PEP
 Abadie, Reynold J., Jr., P.E.-7-IND
 Abaunza, Alfred E., P.E.-9-IND
 Aberly, Thomas K.-2-PEP
 Abraham, Mack, P.E.-5-GOV
 Abraham, Michael C., P.E.-7-IND
 Abramson, Aaron, P.E.-7-IND
 Adam, Verdi-2-GOV
 Adams, Aaron F., P.E.-8-IND
 Adams, Clyde C., P.E.-2-IND
 Adams, Farrell W., P.E.-9-IND
 Adams, F. Lee-1-IND
 Adams, John C., P.E.-7-PEP
 Adams, Neal J.-4-EDU
 Adams, Ray L.-3-EDU
 Adams, Richard B., P.E.-2-PEP
 Adcox, Charles A., P.E.-8-GOV
 Addison, William W., P.E.-2-GOV
 Aderman, Michael V., P.E.-2-PEP
 Adkins, J. Carroll, P.E.-8-IND
 Adoue, Albert J., Jr., P.E.-7-IND
 Affolter, Jerry W., Jr., P.E.-2-IND
 Agnew, Larkin B., P.E.-1-GOV
 Aguilar, R. J., P.E.-2-EDU
 Ahmad, Saeed, P.E.-7-IND
 Aillet, Richard R., P.E.-8-PEP
 Aillet, Robert R., P.E.-8-PEP
 Albano, August J., P.E.-7-PEP
 Albarado, Jeff J.-4-IND
 Albarado, Ronald J., P.E.-4-IND
 Albarado, Warren D.-4-CON
 Albert, Walter A.-3-IND
 Albritton, James V., P.E.-6-EDU
 Aldridge, Daniel R., P.E.-7-PEP
 Alexander, Charles R.-5-IND
 Alexander, Jerry W.-7-IND
 Alexander, T. E., P.E.-2-IND
 Alexandrian, Hayrabid-4-GOV
 Alexcee, Kevin F.-7-IND
 Alfonso, Christopher D., P.E.-7-CON
 Alford, Van H., P.E.-2-PEP
 Aljamel, Mahmoud M.-8-CON
 Allain, Wilbur L., Jr., P.E.-4-PEP
 Allen, Alton E., P.E.-8-IND
 Allen, Jack W., P.E.-7-IND
 Allen, Robert D., P.E.-2-PEP
 Allen, Virgil B.-3-CON
 Allen, W. J., P.E.-7-IND
 Allmand, Lionel C., Jr., P.E.-2-IND
 Allred, George W., P.E.-7-IND
 Alsop, Winfield W., P.E.-8-IND
 Altamirano, Magna-7-None
 Alvarez, David G., P.E.-2-IND
 Alwell, David L., P.E.-4-IND
 Amini, Hadi-7-IND
 Ammons, Eugene H., P.E.-5-PEP
 Amos, Ralph W., Jr., P.E.-2-PEP
 Amy, Alvin A., P.E.-4-CON
 Amy, Gary F.-4-PEP

Amy, James P. III, P.E.-4-IND
 Anderson, Mark C.-7-None
 Anderson, Robert B., P.E.-7-IND
 Andrepont, Keith L., P.E.-4-PEP
 Andrews, Carroll W., P.E.-8-IND
 Andrus, James B.-4-IND
 Andrus, Joseph L., Jr., P.E.-4-PEP
 Anepohl, Fred G., Jr., P.E.-2-PEP
 Angers, John W., P.E.-4-IND
 Angle, Howard G., P.E.-8-CON
 Ansley, Joe M., Jr., P.E.-2-GOV
 Anstead, Royce W., P.E.-8-CON
 Anthony, Spate R., P.E.-8-IND
 Antoine, Ann L.-9-None
 Antoine, Yvette-7-None
 Anyan, Jimmy R.-1-IND
 Appel, Robert L., P.E.-7-CON
 Apple, Clarence L., P.E.-8-PEP
 Arbo, Lloyd J., Jr., P.E.-7-CON
 Arceneaux, Charles Jr., Jr.-7-IND
 Arceneaux, Mark A.-4-IND
 Arceneaux, Thomas W.-7-None
 Ardoin, Larry-1-GOV
 Ardoin, Simone A.-2-GOV
 Argus, Wilbert L., Sr., P.E.-7-None
 Arman, Ara, P.E.-2-EDU
 Armour, Maj. Harold M., Jr., P.E.-9-GOV
 Arnold, G. Dean, P.E.-7-IND
 Arnold, Herbert L.-8-GOV
 Arnold, Jesse L., P.E.-2-PEP
 Aronstein, James M., Jr., P.E.-2-PEP
 Arthur, Jett C., Jr., P.E.-7-GOV
 Artigue, Wade J., P.E.-4-IND
 Ashby, Frank H., Jr.-3-IND
 Ashton, Jack A., Jr., P.E.-2-PEP
 Ashworth, Vernon W., P.E.-7-IND
 Atchley, Ben D., Jr., P.E.-8-PEP
 Atchley, Ben D., Sr., P.E.-8-PEP
 Attaya, Moses, P.E.-7-CON
 Atteberry, James G., P.E.-2-GOV
 Aucoin, Ruby R., P.E.-3-IND
 Aucoin, Theodore A., Jr., P.E.-7-CON
 Austen, Jones H., III-2-CON
 Avegno, Ashton B., Jr., P.E.-7-PEP
 Avery, John J. Jr., P.E.-7-PEP
 Avis, Chester E., P.E.-6-IND
 Ayeni, Babatunde J.-4-EDU
 Ayres, Bruce C., P.E.-8-IND

—B—

Babcock, Don P., P.E.-2-PEP
 Baber, Willbur H., Jr.-9-PEP
 Babineaux, Jules D., P.E.-4-IND
 Babineaux, Thomas C., P.E.-5-PEP
 Backstedt, David W.-2-None
 Badalament, Anthony-4-IND
 Badeaux, J. A., Jr., P.E.-3-PEP
 Baehr, Jerome C., P.E.-7-PEP
 Bailes, John M.-2-None
 Bailey, Barbara A., P.E.-7-IND

Bailey, C. C.-1-GOV
 Bailey, M. Craig-3-GOV
 Bailey, W. S., P.E.-8-PEP
 Bailliet, Victor J., P.E.-3-PEP
 Bain, Earl R., P.E.-6-IND
 Baker, James R., Jr., P.E.-3-CON
 Baker, John R., P.E.-2-PEP
 Baker, Neal W., P.E.-9-CON
 Baker, Oren, P.E.-2-None
 Baker, Wm. R., P.E.-6-PEP
 Baldwin, George A., Jr.-8-PEP
 Balfour, Hugh B., P.E.-6-IND
 Ballard, James R., P.E.-1-PEP
 Ballay, Thomas P.-7-IND
 Bankston, Carl L., Jr., P.E.-7-CON
 Bankston, Leo V., P.E.-2-IND
 Banning, Austin L.-7-IND
 Banta, H. T., P.E.-7-IND
 Barbay, Floyd L., P.E.-2-PEP
 Barbe, Donald E., P.E.-7-PEP
 Barbe, Henry J., Jr., P.E.-7-IND
 Barber, C. L., P.E.-4-IND
 Barbier, August J., Jr., P.E.-7-IND
 Barcelo, Wayne R., P.E.-7-IND
 Bared, Joe G.-4-PEP
 Barfield, Thomas J., P.E.-2-IND
 Barker, Claude G.-7-IND
 Barnard, Charles P., P.E.-2-PEP
 Barnes, Charles-7-IND
 Barnes, Gary J., P.E.-7-IND
 Barnes, J. W., P.E.-7-IND
 Barnes, Mettulus A., P.E.-7-CON
 Barnett, James H., P.E.-2-IND
 Barnhill, Calvin C.-4-PEP
 Barnwell, John R.-8-PEP
 Barnwell, Joseph H., P.E.-6-EDU
 Barr, Harold T., P.E.-2-EDU
 Barr, Herman D., P.E.-2-PEP
 Barr, William T., P.E.-6-CON
 Barron, Otha E., Jr., P.E.-7-IND
 Barron, Otha, E., P.E.-1-PEP
 Barry, David W., P.E.-4-IND
 Barry, Wilfred B., P.E.-2-PEP
 Bartlett, A. Jack, P.E.-7-IND
 Bartlett, George R.-7-IND
 Bartlett, Linda W.-7-IND
 Bartlett, William G., P.E.-6-IND
 Bartley, John C., P.E.-7-CON
 Barton, Bruce D., P.E.-7-CON
 Basha, Fred A., P.E.-7-CON
 Basile, Frank J., P.E.-3-CON
 Basinger, Robert A., P.E.-8-PEP
 Bassich, James B.-7-PEP
 Batchelor, A. P., P.E.-2-GOV
 Battle, Clark R., P.E.-7-None
 Bayham, Dalan J., P.E.-7-IND
 Beakley, William D., P.E.-7-PEP
 Bealer, Quinton G., P.E.-4-PEP
 Beall, Perry H., P.E.-7-PEP
 Beall, Ronnie T., P.E.-8-None
 Bean, James W., P.E.-7-IND
 Bean, Ralph C.-7-None

Bear, Thomas A.-7-PEP
 Beard, Gary J., P.E.-2-PEP
 Beard, Kathy A.-7-IND
 Beard, Philip W., P.E.-1-PEP
 Bearden, Robert G.-7-IND
 Beaullieu, Theodore, Jr., P.E.-4-PEP
 Beaver, John F., P.E.-7-IND
 Bechtold, Michael W., P.E.-6-GOV
 Becker, Hal C., P.E.-7-IND
 Beckham, R. O., Jr., P.E.-7-IND
 Becnel, Glenn A., P.E.-7-IND
 Becnel, P. A., Jr., P.E.-7-GOV
 Becnel, Richard J., Jr., P.E.-7-IND
 Beedle, Warren P., P.E.-4-GOV
 Begnaud, Claude M., P.E.-3-IND
 Bell, Fred, Jr., P.E.-2-IND
 Bell, George L.-7-IND
 Bell, John W., P.E.-7-EDU
 Bellaire, Alvin, Jr.-4-PEP
 Bellinger, F. G., P.E.-5-IND
 Bellocq, Paul M.-7-None
 Belsom, Charles L., P.E.-7-GOV
 Benbow, Michael S., P.E.-7-PEP
 Beneventano, Thomas M.-9-IND
 Bengtson, Richard L., P.E.-2-EDU
 Bennett, Armand I., P.E.-7-CON
 Bennett, Frank W., Jr.,-7-CON
 Benoit, Edgar P., P.E.-3-IND
 Benoit, James M.-5-CON
 Benoit, Jerome P.-3-CON
 Benoit, Kinney R., Jr.-4-CON
 Benson, Hamilton R., Jr., P.E.-8-IND
 Berard, Dailey J.-4-IND
 Bergamini, Albert J., P.E.-9-CON
 Berger, Chris J.-3-PEP
 Bergeron, David J.-4-CON
 Bergeron, Francis L., P.E.-2-PEP
 Bergeron, George D., Jr.-3-PEP
 Bergeron, Henry J., Jr., P.E.-7-PEP
 Bergeron, J. David, P.E.-3-PEP
 Bergeron, John J., P.E.-7-IND
 Bergeron, Keith W.-4-IND
 Bergeron, Michael R., P.E.-4-PEP
 Bergeron, Regis P.-4-IND
 Bergeron, William J., P.E.-5-EDU
 Bergeron, William S., P.E.-4-IND
 Bergstrom, Michael D.-7-IND
 Berlin, Robert A.-7-PEP
 Bernal, Ramiro J., P.E.-4-PEP
 Bernard, C. C., P.E.-2-PEP
 Bernard, Jules C., P.E.-7-CON
 Bernard, Stephanie A.-3-PEP
 Bernat, Henry A., P.E.-8-IND
 Berniard, Lester P., P.E.-2-IND
 Berry, Ricky-5-None
 Bertheaud, Sidney L., P.E.-1-GOV
 Berthold, Charles W., Jr., P.E.-7-IND
 Bertrand, Dudley J., P.E.-6-IND
 Bertrand, S. P., P.E.-2-PEP
 Bertucci, John-7-None
 Betz, Allen W. II, P.E.-7-PEP
 Betz, Allen W., P.E.-7-PEP
 Biggers, Dale C., P.E.-7-CON
 Biggs, Leslie-7-None
 Biles, James E., P.E.-6-CON
 Biles, William E.-2-EDU
 Billeaud, Joseph S.-4-PEP
 Billeaud, Manning F., P.E.-4-IND
 Billingsley, David L., P.E.-8-PEP
 Billodeau, Dewey D., P.E.-4-CON
 Bills, Charles E., P.E.-7-GOV
 Bingham, Billy, Jr., P.E.-4-EDU
 Bird, Anthony-7-None
 Birdsong, Edmond K.-7-IND
 Birdsong, Frank A., P.E.-7-PEP
 Bischof, George N., P.E.-7-CON
 Bishop, Donald J., Jr., P.E.-4-IND
 Bissinger, Roger, P.E.-7-IND
 Bivins, D. E., Jr., P.E.-6-IND
 Blache, E. J., P.E.-7-IND
 Black, Amos L. III, P.E.-2-PEP
 Black, C. Roberick-7-PEP
 Black, Donald M., P.E.-2-IND
 Black, James M., P.E.-2-IND
 Black, Kenneth L., P.E.-7-IND
 Blackburn, Douglas B., P.E.-9-CON
 Blackmer, William M., P.E.-1-PEP
 Blackstone, Richard W., P.E.-2-None
 Blackwelder, Stephen K.-6-IND
 Blackwood, Alan T., P.E.-2-GOV
 Blain, Hugh M., Jr.-7-IND
 Blalock, Paul J., Jr., P.E.-2-IND
 Blan, Douglas-4-None
 Blanchard, Glenny P., P.E.-2-PEP
 Blanche, John J.-2-None
 Blanche, Robert P., P.E.-2-PEP
 Blanco, Jorge L., P.E.-7-IND
 Bland, Robert F., P.E.-9-IND
 Bleichner, Barry J., P.E.-4-PEP
 Bleke, James H., P.E.-7-PEP
 Blessey, Walter E., P.E.-7-EDU
 Bloomfield, Timothy J.-5-IND
 Blouin, Jacques-7-IND
 Blum, Richard K., P.E.-7-PEP
 Blunck, George C., P.E.-1-IND
 Bobo, Jack C., P.E.-4-IND
 Bocchino, Robert M.-7-IND
 Bode, George A.-7-PEP
 Bodin, William J., P.E.-7-PEP
 Boelte, Albert R., P.E.-7-None
 Boelte, William F., P.E.-7-IND
 Boese, Henry A., P.E.-3-GOV
 Boggs, Isaac E., Jr., P.E.-7-IND
 Boh, Henry-7-PEP
 Boh, Robert H., P.E.-7-CON
 Boh, Robert S.-7-CON
 Bohne, Philip W., P.E.-7-IND
 Bohne, William H., P.E.-7-CON
 Bolger, Frederick P.-1-IND
 Boll, Gerard, Jr.-3-IND
 Bollich, Kevin G.-4-None
 Bolling, John R.-7-IND
 Bollinger, Richard N., P.E.-3-PEP
 Bolton, Stephen D.-6-PEP
 Bolyard, James F.-1-CON
 Bond, Foster, P.E.-9-IND
 Bonie, Walter C., P.E.-7-PEP
 Bonneau, John E.-7-PEP
 Bonner, Joseph C., P.E.-7-IND
 Bonnett, Thomas M., P.E.-6-PEP
 Bonnoitt, Ernest L., P.E.-7-IND
 Booksh, James H., P.E.-9-CON
 Booth, James E. Jr.,-7-IND
 Booth, Lionel S., P.E.-7-PEP
 Boozer, Jack W., P.E.-2-IND
 Boquet, Catherine-7-None
 Boquet, John-9-IND
 Boquet, Lydia G.-7-IND
 Bordelon, Richard M., P.E.-4-CON
 Bordelon, Thomas R., P.E.-1-IND
 Borie, Edward, P.E.-2-PEP
 Borland, William H., Jr., P.E.-8-IND
 Borrel, Rene-1-IND
 Bossier, L. H., P.E.-1-None
 Boston, Lawrence H., P.E.-7-IND
 Bouchereaux, William M., Jr.-7-None
 Boudreau, Thomas A. Jr.,-7-CON
 Boudreaux, Aldes T. III-4-None
 Boudreaux, Brian D.-5-IND
 Boudreaux, Dennis P., P.E.-4-IND
 Boudreaux, Donald P., P.E.-7-PEP
 Boudreaux, Hamilton J., Jr., P.E.-9-IND
 Boudreaux, Kenneth F., P.E.-3-PEP
 Boudreaux, Michael B.-4-PEP
 Boudreaux, Michael J., P.E.-4-GOV
 Boudreaux, Oscar J., Jr.-2-PEP
 Boudreaux, Paul C., P.E.-2-PEP
 Boudreaux, Raymond J., Jr., P.E.-3-IND
 Boudreaux, Ronald J., P.E.-3-None
 Boudreaux, Steve M.-2-PEP
 Boudreaux, Warren P.-4-PEP
 Boulet, James B., P.E.-5-IND
 Boultinghouse, H. R., Jr., P.E.-1-IND
 Bourgeois, Michael P.-7-None
 Bourgeois, Truman A., P.E.-2-GOV
 Bourgoyne, Rhodes J., P.E.-7-IND
 Bourque, David L.-4-PEP
 Bourque, Hugh O., Jr.-7-IND
 Bourque, Philip J.-3-IND
 Boutte, Claude W., Jr., P.E.-1-PEP
 Boutte, Ronald L., P.E.-8-PEP
 Boutwell, Gordon P., P.E.-2-PEP
 Bowie, James E., Jr., P.E.-4-EDU
 Bowman, John R., P.E.-8-PEP
 Boyles, David B., P.E.-2-PEP
 Bozargzad, Mahmood-2-GOV
 Bradford, Daniel W., P.E.-1-GOV
 Bradley, James H., P.E.-8-PEP
 Bragg, Gerald A., P.E.-7-PEP
 Brammer, Jerry D., P.E.-2-IND
 Branch, H. James, Jr.-1-GOV
 Branch, John W.-2-IND
 Branch, William H.-1-PEP
 Brantley, Albert V., P.E.-5-PEP
 Brantley, Kenneth L., P.E.-6-EDU
 Braquet, Merlin X., P.E.-1-IND
 Brassette, Truitt A., P.E.-5-PEP
 Braun, Mark E.-4-PEP
 Brauner, Emile J.-7-None
 Breaux, Chadwick P., P.E.-8-PEP
 Breaux, Charles Z., Jr., P.E.-2-PEP
 Breaux, Elton G., P.E.-4-IND
 Breaux, Ernest P., Jr., P.E.-4-IND

Breaux, George D., P.E.-4-CON
 Breaux, M. Gregory, P.E.-2-PEP
 Breaux, Michael A.-4-CON
 Breaux, Philip B.-4-CON
 Breaux, Robert J., P.E.-4-CON
 Breaux, Robert L.-2-PEP
 Breaux, Todd A.-4-None
 Breeden, John O., P.E.-9-IND
 Breffelh, George A., P.E.-5-PEP
 Breit, Hjalmar E., Jr., P.E.-7-IND
 Bretz, John A.-7-IND
 Brewer, J. H., P.E.-2-GOV
 Brewer, John F.-2-IND
 Brewster, James L., Jr.-6-IND
 Brian, Eugene A., P.E.-7-PEP
 Brian, Robert M.-2-PEP
 Bridges, Cleon E.-3-IND
 Bridges, Frank III, P.E.-3-PEP
 Bridges, J. M., P.E.-3-PEP
 Bridgforth, Austin S., III, P.E.-2-IND
 Bried, Frederick J., P.E.-9-IND
 Brierley, William R., P.E.-1-IND
 Briggs, Jeffrey R.-9-IND
 Briggs, Rene, Jr., P.E.-4-PEP
 Bright, Robert L., P.E.-4-IND
 Brignac, Edmond M., Jr., P.E.-7-IND
 Brinsmade, Akbar F., P.E.-7-IND
 Brinsmade, Robert B.-7-IND
 Brocato, Blace-7-None
 Brocato, Sam J.-1-IND
 Broderick, Gary M., P.E.-2-CON
 Brodnax, David K., P.E.-4-IND
 Brodnax, Marlynn G., P.E.-8-PEP
 Brodtman, A. W., P.E.-7-CON
 Brodtman, August J., P.E.-7-IND
 Brooks, Barnes E., P.E.-9-IND
 Brooks, Frederick M., P.E.-2-PEP
 Brooks, Leon E., P.E.-8-CON
 Brossette, Robert A., Jr., P.E.-7-IND
 Brouillette, Orvil J.-9-IND
 Brouillette, Rickey P.-4-EDU
 Broussard, Curtis, P.E.-4-IND
 Broussard, Daniel J., P.E.-2-None
 Broussard, Dennis J., P.E.-4-PEP
 Broussard, Donald C.,-4-GOV
 Broussard, Francis H., Jr., P.E.-4-CON
 Broussard, Frederick D., P.E.-2-IND
 Broussard, Gregory W.-3-GOV
 Broussard, Harry-7-None
 Broussard, Larry-9-None
 Broussard, Leon A.-3-CON
 Broussard, Oliver III, P.E.-5-GOV
 Broussard, Paul C. Sr., P.E.-7-IND
 Broussard, Peter A.-5-IND
 Broussard, R. Paul, P.E.-2-IND
 Broussard, Rene J.-7-IND
 Broussard, Reynold D., P.E.-7-GOV
 Broussard, Richard W., Jr.-7-GOV
 Broussard, Warren D., P.E.-8-IND
 Broussard, Wayne B.-7-None
 Broussard, Wesley J., P.E.-4-IND
 Brown, Alton D.-6-CON
 Brown, Brenda L.-7-None
 Brown, Buck F., P.E.-9-EDU
 Brown, C. C., P.E.-2-PEP

Brown, Dan A., P.E.-2-PEP
 Brown, Daniel W., P.E.-1-PEP
 Brown, E. E., P.E.-8-PEP
 Brown, Evan C., Jr., P.E.-2-IND
 Brown, Frederick J., P.E.-7-EDU
 Brown, Hoyt W., Jr., P.E.-9-IND
 Brown, J. Stanley, P.E.-9-IND
 Brown, Ralph H.-8-PEP
 Brown, Wayne, P.E.-8-CON
 Brown, William H., P.E.-2-EDU
 Browning, Phil A., P.E.-8-IND
 Browning, Robert J., Jr., P.E.-3-PEP
 Broz, Vencil L.-4-IND
 Bruce, John S.-6-PEP
 Bruce, Michael G.-2-PEP
 Bruce, Robert F., P.E.-2-PEP
 Bruley, Duane F., P.E.-6-EDU
 Bryan, Travis S.-6-CON
 Bryant, James E., P.E.-6-CON
 Bryant, Raymond G., P.E.-7-IND
 Brynsvold, John H., P.E.-6-CON
 Bubrig, Ross V., P.E.-7-CON
 Buchtel, James R., P.E.-2-PEP
 Buck, David E., P.E.-7-IND
 Bueche, Coan J., P.E.-2-GOV
 Bufkin, I. D., P.E.-9-IND
 Buford, Ralph D.-5-PEP
 Bugbee, Loring, Jr., P.E.-7-IND
 Buhls, Oliver L., P.E.-6-PEP
 Buisson, Robert A., Jr., P.E.-7-GOV
 Bulla, John T., P.E.-2-IND
 Buras, Michael A.-7-IND
 Burch, Ronald H., P.E.-7-IND
 Burch, William J., Jr., P.E.-5-IND
 Burfoot, Charles A., P.E.-8-IND
 Burgan, Jeffrey B.-3-IND
 Burgess, Ray E., P.E.-8-PEP
 Burgess, Ray W., P.E.-2-IND
 Burguires, Ernest A., Jr., P.E.-7-CON
 Burk, Jack S., P.E.-2-PEP
 Burkart, Roy B., P.E.-7-IND
 Burke, Brian J.-7-IND
 Burke, Errol J., P.E.-7-IND
 Burkhalter, D. F., Jr., P.E.-6-PEP
 Burnett, John O.-2-None
 Burrell, Montrust Q., Jr., P.E.-2-EDU
 Burton, Charles A.-9-IND
 Burton, Robert W., P.E.-2-PEP
 Busch, Courtney C., P.E.-7-PEP
 Bush, Eileen P.-5-IND
 Bush, Steven R., P.E.-2-IND
 Buteau, Craig-4-CON
 Buturla, Kenneth J.-2-IND
 Byers, Dorsey W.-6-PEP

—C—

Caballero, Mario P., P.E.-3-IND
 Caballero, Raymond L.-7-IND
 Cabiro, Richard J., P.E.-7-PEP
 Cade, Michael J.-9-IND
 Caffery, Donelson R., Jr.-5-IND
 Caffery, Russell, P.E.-4-PEP
 Cagle, John E., P.E.-8-PEP
 Cahill, John J. III, P.E.-2-PEP
 Cahoon, Merle L., P.E.-5-IND

Caire, Robert D.-7-None
 Calandro, Frank L., P.E.-7-CON
 Caldwell, Gary H., P.E.-4-IND
 Calhoun, John D., P.E.-6-EDU
 Calhoun, William M.-6-IND
 Callahan, Michael D.-1-PEP
 Callahan, Russell J.-3-IND
 Callaway, Kenneth P., P.E.-7-PEP
 Callegari, Stephen R., P.E.-4-PEP
 Callegari, W. A., P.E.-9-PEP
 Calloway, Randall L.-9-None
 Calongne, Henry J., P.E.-7-CON
 Cambeilh, Barry E.-7-IND
 Cambias, Seymour, Jr.-9-IND
 Cameron, Albert N., P.E.-2-GOV
 Camillone, Nicholas-7-None
 Cammarata, Nickie G.-7-IND
 Camp, Charles M.-3-PEP
 Campagna, Salvador J., P.E.-9-IND
 Campaneria, J.M.A., P.E.-4-IND
 Campbell, B. W., P.E.-4-CON
 Campbell, Kohlman, P.E.-7-IND
 Campbell, Lee, P.E.-2-IND
 Campbell, Mason M.-7-None
 Campbell, Philip H.-9-PEP
 Canale, Thomas A., P.E.-7-GOV
 Canavier, Donald L.-7-IND
 Cancienne, Craig-1-IND
 Cancienne, Inez D.-2-None
 Cancienne, Warren E., Jr., P.E.-7-IND
 Candler, David R.-7-PEP
 Cannon, Harry L., P.E.-8-IND
 Cano, Adolfo, P.E.-2-PEP
 Canterbury, Jack, P.E.-6-EDU
 Canzoneri, Raymond, P.E.-7-CON
 Caplan, A.S., P.E.-7-IND
 Capozzoli, Louis J., Jr., P.E.-2-PEP
 Cappel, Roy G., P.E.-7-PEP
 Cappel, Thornton L., Jr., P.E.-2-None
 Cardella, Russell-7-IND
 Cardon, David J., P.E.-7-IND
 Carlson, Clyde E., P.E.-2-None
 Carmichael, Chas. J., Jr., P.E.-4-PEP
 Carmichael, J. T., P.E.-8-PEP
 Carnegie, S. S., P.E.-2-PEP
 Carpenter, Earl H., P.E.-2-PEP
 Carr, Brian S.-7-IND
 Carradine, Charles R., P.E.-2-IND
 Carriere, B. M., P.E.-2-PEP
 Carroll, Thomas R. III, P.E.-4-PEP
 Carter, Donald C.-8-CON
 Carter, Herb S.-2-PEP
 Carter, J. B., P.E.-2-PEP
 Carter, Leland H., P.E.-8-PEP
 Carter, Troy-7-None
 Carter, William H., P.E.-2-EDU
 Cartier, Roy A., P.E.-7-PEP
 Cartwright, John H., P.E.-2-IND
 Caruso, Gerard P., P.E.-7-None
 Caruthers, John J., P.E.-5-IND
 Caruthers, Robert M., P.E.-6-EDU
 Carver, Dale R., P.E.-2-EDU
 Carville, Charles L., P.E.-2-PEP
 Carville, David J., P.E.-2-PEP
 Carville, Jules A., Jr., P.E.-7-IND

Carville, Thomas E., P.E.-7-IND
 Casey, David G., Jr., P.E.-4-PEP
 Cashen, John R. II-7-PEP
 Cashion, Ross B., Jr., P.E.-7-PEP
 Cason, Lloyd D., Jr., P.E.-7-IND
 Cassity, George M., P.E.-4-CON
 Casso, Jerry J., P.E.-7-EDU
 Castagnos, Lee J. Jr., P.E.-3-PEP
 Caster, Clarence R., Jr., P.E.-7-IND
 Castille, Alan J., P.E.-4-IND
 Castille, Dale J., P.E.-4-IND
 Castrillo, Carlos V.-3-IND
 Cate, John D., P.E.-2-PEP
 Catledge, John W.-7-IND
 Cedel, Richard A., P.E.-1-IND
 Cedotal, Jessie J.-3-PEP
 Cefalu, Joseph J., P.E.-3-GOV
 Celebi, Mehmet E., P.E.-7-PEP
 Centanni, Rosario J.,-7-IND
 Chakravarty, Samir K., P.E.-2-IND
 Chamberlain, Joseph P., P.E.-5-IND
 Chambers, Jim L.-4-IND
 Chambers, Michael A.-2-IND
 Champagne, Earl P., P.E.-3-IND
 Chance, John E., P.E.-4-PEP
 Chaney, Marion J., P.E.-1-PEP
 Chaney, Stewart L.-2-IND
 Chapman, Bryant L.-4-IND
 Chapman, Henry G., P.E.-7-CON
 Chapman, John P.-9-IND
 Chappell, Harmon L.-8-PEP
 Chappius, Robert E., P.E.-1-None
 Charrier, Thomas, P.E.-2-CON
 Chastant, Earl L.-1-IND
 Chatagnier, Gilbert J., III, P.E.-7-PEP
 Chatry, Frederic M., P.E.-7-GOV
 Chauvin, Kerry J.-3-IND
 Chauvin, Leonard J., Jr.-2-PEP
 Cheesman, William V. P.E.-2-PEP
 Chehl, Sahib S.-2-EDU
 Chenet, Theo T.-5-PEP
 Chesson, Don W., P.E.-2-PEP
 Chester, Charles W., P.E.-1-IND
 Chevalier, Willie T., P.E.-1-IND
 Chevis, Clifford J.-7-None
 Chevis, Marc-7-PEP
 Chiasson, Ronald P.,-3-IND
 Chieri, Pericle A., P.E.-4-EDU
 Chigoy, Warren A.-7-IND
 Childs, Henry B.-6-IND
 Chopin, Lamy J., Jr., P.E.-2-PEP
 Christensen, Marvin M., P.E.-2-PEP
 Christensen, Russel J., P.E.-9-IND
 Christian, Harvey D., P.E.-8-PEP
 Christman, John M. P.E.-2-PEP
 Chrouister, James N., P.E.-4-IND
 Chryssoverges, Gina-7-None
 Chryssoverges, Joseph-7-None
 Chyrssoverges, Louis B.-7-None
 Clabaugh, Jack H., P.E.-2-IND
 Clapp, Thomas W., P.E.-9-IND
 Clark, Jim W.-3-PEP
 Clark, Kenneth M., P.E.-2-IND
 Clarke, Herbert F.-1-IND
 Clary, Ben J., P.E.-6-PEP
 Clawson, Raymond M., P.E.-5-IND
 Claxton, Don E., P.E.-4-IND
 Clay, Edward H. III-7-IND
 Clayton, Donald W., P.E.-1-PEP
 Clement, Christy A., Jr., P.E.-7-IND
 Cloninger, Sarah K.-2-IND
 Clouatre, Martyn A.-7-IND
 Coakley, Gerald L.-5-IND
 Coates, Allen R., P.E.-7-PEP
 Coates, Charles H., Jr., P.E.-2-CON
 Coates, Jesse Jr., P.E.-2-IND
 Coates, Jesse, P.E.-2-EDU
 Coates, John H., Jr.-7-PEP
 Coburn, Arthur II, P.E.-9-PEP
 Cockrell, C. M., P.E.-7-IND
 Code, David-7-None
 Coe, Paul E., Jr., P.E.-7-CON
 Cofield, Karen E.-7-None
 Colbert, Tom F.-9-None
 Cole, Charles E.-9-IND
 Coles, Dwight T.-9-IND
 Coles, John E., P.E.-7-IND
 Collet, Patrick T.-9-None
 Collette, D.A., P.E.-5-CON
 Colletti, Joseph J., Jr.-4-CON
 Collier, Randall H.-2-PEP
 Collins, Harry D., P.E.-7-GOV
 Collins, J.H. Sr., P.E.-7-IND
 Collins, James B., Jr., P.E.-4-PEP
 Collins, James H., P.E.-7-PEP
 Collins, Timothy L.-4-None
 Colquette, Paul E.-6-GOV
 Colvin, Charles C., P.E.-8-CON
 Colwell, Jacquelyn R.-4-IND
 Comeaux, Kenneth L.-7-None
 Comeaux, Marc A.-4-CON
 Commander, Jay C., P.E.-1-GOV
 Compher, Kimberlee B., P.E.-2-PEP
 Compher, Steven D. P.E.-2-IND
 Compton, D.W.-7-GOV
 Conklin, Charles R., P.E.-9-IND
 Conlee, Fred A., P.E.-6-CON
 Conner, Albert L., P.E.-1-IND
 Conrad, Philip J.-9-GOV
 Constant, Warren H., P.E.-1-PEP
 Conti, Charles-7-None
 Conway, William B., P.E.-7-PEP
 Cook, C. W., P.E.-1-GOV
 Cook, Robert M., P.E.-7-IND
 Coon, Fred A. III, P.E.-6-CON
 Cooper, Karl O., P.E.-2-IND
 Cooper, Patrick J.-3-None
 Copeland, John L.-8-PEP
 Copeland, W.D.-7-IND
 Copes, John C., P.E.-2-PEP
 Corbin, William L., Jr., P.E.-2-PEP
 Cordaro, John J., P.E.-7-IND
 Cordell, William N., P.E.-9-PEP
 Cordes, Adrian B., P.E.-7-IND
 Cordill, Stephen H., P.E.-4-IND
 Cordon, Carlos A., P.E.-7-GOV
 Core, Jerry A.-7-PEP
 Cormier, Sidney J., P.E.-5-IND
 Cornay, Clement J., P.E.-2-PEP
 Cornell, Drew, P.E.-4-IND
 Correa, Domingo M., P.E.-7-IND
 Cosgrove, R. D., P.E.-7-IND
 Cosgrove, Robert M., P.E.-9-IND
 Cospolich, James D., P.E.-7-PEP
 Cosse, J., Jr., P.E.-9-CON
 Cothren, Stanley M., P.E.-8-PEP
 Cotton, John L., P.E.-2-PEP
 Cottone, Vincent F., P.E.-7-GOV
 Courville, Calvin, P.E.-4-PEP
 Courville, Mark-4-CON
 Couturie, James H., P.E.-7-PEP
 Couvillion, John W. P.E.-2-PEP
 Couvillion, Robert L., P.E.-2-PEP
 Cox, Allen L., P.E.-2-PEP
 Cox, Eugene R., Jr., P.E.-2-PEP
 Cox, Simeon O., Jr., P.E.-9-PEP
 Coyle, Charles, P.E.-8-PEP
 Crabtree, William O., Jr., P.E.-2-IND
 Cradeur, Michael W., P.E.-4-IND
 Craft, Robert E., P.E.-6-IND
 Craft, Sammie L., P.E.-8-PEP
 Craft, Toxie, P.E.-2-PEP
 Craig, Arvra E., Jr., P.E.-1-PEP
 Craig, Johnnie A.,-8-PEP
 Craighead, James A-7-IND
 Crain, George L., P.E.-4-IND
 Crane, Stephen M.-7-PEP
 Crawford, Chas. C.-7-None
 Crawford, James C., P.E.-6-PEP
 Crawford, James M-9-CON
 Creighton, Bruce P.-7-IND
 Cresap, Daniel V., P.E.-2-GOV
 Cressy L., Jr., P.E.-7-PEP
 Cressy, Ronald P., P.E.-7-PEP
 Crew, Louis C., P.E.-6-PEP
 Crews, R.N., P.E.-9-None
 Crochet, Clyde W.-7-CON
 Crockett, Clyde C., P.E.-7-IND
 Crockford, Lloyd A., P.E.-2-IND
 Cross, Leslie M., P.E.-4-CON
 Crosser, Bob-7-None
 Crownover, Albert B., Jr., P.E.-4-PEP
 Crum, Floyd M., P.E.-9-EDU
 Crumpler, William A., P.E.-2-IND
 Crutti, John A., P.E.-7-CON
 Cuccia, Nickolas J., P.E.-7-IND
 Cucullu, Cylde J., P.E.-7-None
 Cucullu, Lionel J., P.E.-7-IND
 Cullen, Michael G., Jr., P.E.-2-CON
 Culpepper, Fred C., Jr., P.E.-6-CON
 Culpepper, Perry J.-3-CON
 Cummer, William F., P.E.-8-IND
 Cummins, Melissa L.,-7-IND
 Cunningham, Curtis-7-IND
 Cunningham, Fred J., P.E.-7-PEP
 Cunningham, J. P., P.E.-9-IND
 Cunningham, Joe-7-None
 Curry, Harold B., P.E.-6-PEP
 Cusachs, Louis, P.E.-2-IND
 Cusimano, Charles V., P.E.-7-PEP
 Cutcher, Dennis R.-7-IND
 Czerwinski, Michael H., P.E.-7-IND

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D'Amico, Joseph V.-7-IND

D'Aquin, Arthur F., Jr., P.E.-7-IND
 Daigle, Sidney I., P.E.-7-PEP
 Daigre, Carolyn-7-None
 Daigre, Milton C., P.E.-1-PEP
 Dalia, Frank J., P.E.-7-EDU
 Dalton, Maurice F.-2-IND
 Damico, Joseph V.-7-IND
 Dammon, Emmett G., Jr., P.E.-7-PEP
 Damron, Eugene-7-IND
 Dane, John III, P.E.-7-IND
 Daniel, Frank K., P.E.-4-IND
 Daniel, L. R., Jr., P.E.-2-EDU
 Daniels, A. B., Jr., P.E.-2-GOV
 Danielson, Susan-7-None
 Danos, Joe C.-3-IND
 Dantin, Elvin J., Jr.-7-PEP
 Dantin, Elvin J., P.E.-2-None
 Dantoni, Paul A., P.E.-2-PEP
 Danzy, Roger D.-1-IND
 Darby, Patrick L.-7-IND
 Darden, Arthur D., P.E.-7-PEP
 Daret, Reno J., Jr.-7-GOV
 Dart, Olin K., Jr., P.E.-2-EDU
 Dasgupta, Ujjal-7-IND
 Daspit, Kenneth J., P.E.-7-IND
 Davenport, Ralph L., P.E.-2-CON
 David, James F.-4-IND
 David, Thomas C., Jr., P.E.-1-PEP
 David, Thomas C., P.E.-1-PEP
 Davies, Harry R., Jr., P.E.-7-PEP
 Daviet, Claude E., P.E.-2-PEP
 Davis, Albert B., Jr., P.E.-9-GOV
 Davis, Charles R., P.E.-1-IND
 Davis, David G., P.E.-7-None
 Davis, Donald-7-CON
 Davis, George B., P.E.-7-CON
 Davis, Gregory L.-3-PEP
 Davis, Guyon J.-6-CON
 Davis, Kevin B.-3-CON
 Davis, Lamar W., Jr., P.E.-9-PEP
 Davis, Paul W.-2-IND
 Davis, Stephen K.-3-CON
 Davis, Todd D., P.E.-8-IND
 Davis, W.G., P.E.-2-GOV
 Davis, William E., P.E.-8-IND
 Deal, Kenneth E., P.E.-4-PEP
 Debaillon, Michael J., P.E.-4-CON
 Deblieux, Jeff, P.E.-3-CON
 Debogory, Peter, E.-7-PEP
 Debray, Harold J., P.E.-7-IND
 Deckbar, Rick-7-None
 Decker, Charles W., P.E.-7-GOV
 Deckert, Albert V., Jr., P.E.-7-PEP
 Deckert, Joseph C., P.E.-7-IND
 Decorte, David-7-None
 Decossas, Kenneth M., P.E.-7-GOV
 Defourreaux, John J.-7-None
 Defraites, Arthur A., Jr., P.E.-3-PEP
 Defraites, John M.-3-PEP
 Degruy, Wallace V., P.E.-7-None
 Dehaan, Andries D.-7-PEP
 Deharde, Michael H.-7-IND
 Deharde, Thomas J.-7-None
 Dehart, Randy J.-3-None
 Deimel, Joanne M.-4-None

Deitenbeck, William H.-4-IND
 Dekerlegand, Deke E.-4-IND
 Delaune, James E., Jr., P.E.-2-PEP
 Delery, Oliver S., Jr.-7-PEP
 Deloney, Mack H., P.E.-7-IND
 Demarco, Anthony-1-PEP
 Demopulos, Chris, P.E.-8-PEP
 Demopulos, Paul C.-8-PEP
 Demoss, Alvin E., P.E.-4-CON
 Dengle, John G., P.E.-1-IND
 Denham, Bertram R. P.E.-2-IND
 Denmon, Terry D., P.E.-6-PEP
 Denny, James W. III, P.E.-4-IND
 Densford, Stephen B., P.E.-6-IND
 Denson, Curtis L., P.E.-7-IND
 Denson, Leonidas, L., P.E.-7-PEP
 Denton, Frank M., P.E.-7-CON
 Denton, Lyn A., P.E.-2-PEP
 Derick, R. Kenneth, P.E.-5-PEP
 Derr, James H.-9-IND
 Desai, Prafil R., P.E.-8-PEP
 Deslatte, Lorraine L.-2-IND
 Desormeaux, Eugene R., P.E.-4-CON
 Desselle, Earl P., P.E.-7-PEP
 Devall, Philip W.-4-IND
 Deville, Danny, P.E.-4-None
 Deville, Lionel, Jr., P.E.-4-CON
 Devine, Lanier H., P.E.-7-IND
 De-Court, Frederick, P.E.-4-IND
 De-Court, Laurent J., P.E.-4-IND
 De-Salignac, L.L.-7-None
 Diamond, Alfred J., P.E.-7-CON
 Diamond, John F., P.E.-9-IND
 Diamond, Mark-7-None
 Diasselliss, Kenneth P.-7-IND
 Diaz, Juan A., P.E.-4-IND
 Dicharry, Gerald J., P.E.-7-GOV
 Dick, Richard D.-6-CON
 Dickerson, Kenneth B., P.E.-1-IND
 Dickinson, Francis H., P.E.-9-GOV
 Dickson, Jerry L., P.E.-3-None
 Diehl, Robert J., P.E.-9-IND
 Dietrich, Rudy J., P.E.-7-PEP
 Diettel, Otto F., P.E.-4-IND
 Digiovanni, Richard M.-7-IND
 Dillahunt, Leslie, P.E.-8-IND
 Dilley, Christopher A.-9-IND
 Dimmick, Frank II, P.E.-2-None
 Dinkel, Stanley G., P.E.-7-IND
 Dinwiddie, Glen S., P.E.-7-IND
 Dittrich, Ernest C. III-9-IND
 Dixon, Alicia E.-4-PEP
 Dixon, James M., P.E.-7-PEP
 Dixon, Peter A.-7-IND
 Dobbs, Earl S., P.E.-7-IND
 Dobson, William H., P.E.-7-CON
 Dodge, Farrar R.-9-GOV
 Dodson, Joseph R.-8-IND
 Doggette, David H.-4-CON
 Dohse, Fritz E., P.E.-7-EDU
 Dokos, Nick G., P.E.-7-IND
 Doles, James D.-7-PEP
 Dolgos, Julius, P.E.-2-CON
 Dollmann, Steven C., P.E.-5-CON
 Domingue, Emery, P.E.-4-PEP

Domingue, Kirby J., Jr., P.E.-4-IND
 Domingue, Ravely J., Jr., P.E.-4-PEP
 Domingue, Ronald A., P.E.-4-GOV
 Donald, Victor R.-2-PEP
 Donham, James F., P.E.-4-IND
 Donlon, T. F., P.E.-2-GOV
 Donovan, David M.-7-PEP
 Donsbach, Michael A., P.E.-7-IND
 Doody, Jeremiah J., P.E.-2-PEP
 Dooley, Gerard F., P.E.-5-IND
 Doran, Michael V.-7-None
 Dornblatt, B. M., P.E.-7-PEP
 Doty, Robert T., P.E.-5-EDU
 Doucet, Amos L., P.E.-8-IND
 Doucet, Glenn-7-None
 Douciere, Wilbur M. P.E.-5-IND
 Douglas, August H., Jr., P.E.-7-IND
 Douglas, Carl L., Jr., P.E.-2-PEP
 Douglas, W. E., Jr., P.E.-9-GOV
 Dour, Richard H., P.E.-9-None
 Downey, Edward J., P.E.-7-IND
 Downs, Donald R., P.E.-8-PEP
 Doyle, James M., Jr., P.E.-9-CON
 Doyle, Richard M., P.E.-8-GOV
 Doyle, Russell K., P.E.-7-CON
 Dragland, Michael R.-7-IND
 Dragland, Thomas M.-2-GOV
 Dressel, J. L., P.E.-7-IND
 Drew, Mark C.-9-IND
 Drone, Donald W.-2-PEP
 Dubois, John F., Jr.-9-None
 Dubois, Keith R., P.E.-4-CON
 Dubone, Tommy N., P.E.-7-PEP
 Dubroc, Gerald A., P.E.-4-PEP
 Dubroc, Mark B.-4-PEP
 Duck, Eric S.-1-PEP
 Duck, Joe W., P.E.-4-CON
 Duclos, Louis, P.E.-2-PEP
 Ducote, Donald R.-7-CON
 Ducote, Edward R.-1-PEP
 Ducote, Robert P., P.E.-7-IND
 Duet, Douglas A., P.E.-7-IND
 Duff, Don W., P.E.-2-IND
 Duffour, Rennan-7-None
 Dufour, Glenn M., P.E.-4-IND
 Dufour, J. Larry, P.E.-2-CON
 Dufour, Martin J., P.E.-4-IND
 Dufrechou, Carlton F.-7-CON
 Dufrene, Tildon J., Jr., P.E.-7-GOV
 Dugan, John V., Jr.-9-IND
 Dugas, David A.-4-None
 Dumas, Albert E., P.E.-8-IND
 Dumas, David M., P.E.-6-PEP
 Dumoit, James L., Jr., P.E.-1-GOV
 Dumont, Edward B., P.E.-2-IND
 Duncan, Robert A.-7-IND
 Dunn, Albert J., P.E.-2-GOV
 Dunn, James A., Jr., P.E.-4-CON
 Dunn, Raymond J., Jr., P.E.-1-PEP
 Dunn, Raymond J., P.E.-1-PEP
 Dunn, Wallace E., P.E.-7-PEP
 Duplantis, Daniel J.-3-CON
 Dupre, Larry J.-3-PEP
 Dupuis, Alvin J., P.E.-4-GOV
 Dupuis, Richard A., P.E.-4-EDU

Duracher, Lawrence-7-None
 Durel, Jayne L.-9-IND
 Durning, A.W., P.E.-7-IND
 Durr, Sebastian J., Jr. P.E.-8-CON
 Durrett, David G., P.E.-2-PEP
 Durrett, J.S., P.E.-2-PEP
 Durrwachter, Charles L., P.E.-2-PEP
 Dusenbury, Charles, P.E.-7-IND
 Dutreil, L. J., P.E.-7-PEP
 Dwyer, Ralph D. III-7-PEP
 Dyar, William A., P.E.-7-IND
 Dyer, James P., P.E.-7-PEP
 Dyer, Tracy D.-6-IND
 Dykes, Jesse G., P.E.-7-PEP
 Dykes, Osborne J., Jr., P.E.-8-IND
 Dykes, Vancle E., P.E.-7-GOV
 Dyle, Curtis E., P.E.-5-PEP
 Dyson, Bruce K., P.E.-2-PEP
 Dyson, Gerald R., P.E.-2-PEP

—E—

Eakin, Charles A., P.E.-7-GOV
 Eakin, William D.-8-IND
 Earl, Holmes, P.E.-7-PEP
 Earl, R. H., P.E.-9-IND
 Earl, Ralph, P.E.-7-CON
 Earle, Bruce B., P.E.-2-PEP
 Eason, John H.-6-GOV
 Ebey, Joseph P.-7-None
 Eccles, David E., P.E.-5-PEP
 Echeverria, Jose A.-7-None
 Edgar, David L., P.E.-6-CON
 Edgcombe, Barry P., P.E.-7-CON
 Edington, Donald M., P.E.-2-GOV
 Edley, Mary L.-4-None
 Edmonds, John B., P.E.-8-CON
 Edrington, William E., Jr., P.E.-2-PEP
 Edwards, Clarence C., Jr., P.E.-2-GOV
 Edwards, Hero J., Jr., P.E.-7-IND
 Edwards, S. H., Jr.,-8-IND
 Efferson, Joseph R.-8-IND
 Egan, Joseph F., Jr.-7-IND
 Ehlers, John M.-7-IND
 Ehrensing, Lucas H., P.E.-7-PEP
 Ehrlicher, Thomas G., P.E.-7-PEP
 Eisen, Edwin O., P.E.-5-EDU
 Eitel, George L., Jr.-9-IND
 El-Ariny, Ahmed S., P.E.-7-GOV
 Eldred, Clarence L., P.E.-8-IND
 Elissalde, M.H., P.E.-9-None
 Elkins, Claude K. III-1-IND
 Elkins, Claude K., Jr., P.E.-7-IND
 Ellegood, Michael S., P.E.-2-PEP
 Elliott, David B.-2-EDU
 Elliott, Frank W., Jr.-7-None
 Elliott, Glenn N.-4-None
 Elliott, Russel N., P.E.-3-None
 Ellis, Sydney, Jr., P.E.-9-IND
 Ellis, William C., Jr., P.E.-7-PEP
 Ellis, William C., Sr., P.E.-7-None
 Elmore, John E.-9-CON
 Elnaggar, Hameed A.-2-PEP
 Elstrott, John B., P.E.-7-IND
 Elverum, Ola H.-3-None
 Emmert, James E., P.E.-2-PEP

Emmert, Robert L., P.E.-2-PEP
 Endlekofer, Herman A., P.E.-2-PEP
 Engels, Stephanie L.-2-None
 Englande, Andrew J., Jr., P.E.-7-EDU
 English, J. R., P.E.-6-IND
 Ergenbright, William D., P.E.-3-IND
 Ernst, John A.-7-None
 Escobar, Gilberto J-7-EDU
 Espinosa, Raul G.-8-CON
 Estopinal, Earl J., Jr.-6-IND
 Estopinal, Fernando J. III, P.E.-7-PEP
 Eustis, Charles L., P.E.-7-PEP
 Eustis, J. B., P.E.-7-PEP
 Evans, Robert E., P.E.-7-IND
 Ewin, J. P., Jr., P.E.-7-PEP
 Ewton, Albion H., Jr., P.E.-9-IND
 Exnicios, John F., P.E.-7-GOV

—F—

Fadden, Peter J., P.E.-2-CON
 Fager, John F., P.E.-7-IND
 Falcon, Robert-7-None
 Falgout, Thomas E., P.E.-4-PEP
 Faller, Harold E., P.E.-7-PEP
 Fallin, Alton J.-6-IND
 Farinholt, Lewis S.-7-CON
 Faris, Nicholas B., Jr.-7-CON
 Farmer, Kenneth W.-5-IND
 Farrar, Harry J., Jr., P.E.-4-PEP
 Farrelly, Donald F., P.E.-7-CON
 Fastring, Holt H., P.E.-7-PEP
 Fathali, Behrouz-4-PEP
 Faucheux, Dale P.-7-PEP
 Faul, Gary L.-5-IND
 Faulk, Arthur E., Jr., P.E.-4-CON
 Faulk, James E., P.E.-7-IND
 Faulkner, J. C., P.E.-9-IND
 Faulkner, Wesley E., P.E.-7-PEP
 Faust, Mark H.-7-IND
 Favaloro, Francis J., P.E.-7-IND
 Favaloro, Tony E.-7-PEP
 Favret, Harold F., P.E.-7-IND
 Favret, James E., P.E.-7-PEP
 Fenn, Fred H., P.E.-2-EDU
 Fennell, James C., P.E.-7-IND
 Fennell, Otis H., P.E.-1-IND
 Fenner, Gary W.-8-PEP
 Fenner, Robert D., P.E.-8-PEP
 Fenstermaker, C. H., P.E.-4-PEP
 Fenton, Richard F., P.E.-2-IND
 Ferachi, Norman C.,-2-None
 Fereidonni, Fred, P.E.-7-PEP
 Ferg, David E. II-3-CON
 Ferguson, B.M., P.E.-8-PEP
 Ferguson, George R. III, P.E.-2-EDU
 Ferguson, Keith R.-4-IND
 Ferguson, Lyle W., P.E.-7-IND
 Fernandez, John D., Jr., P.E.-7-PEP
 Fernandez, John M., P.E.-9-IND
 Fernandez, John P., P.E.-7-GOV
 Ferrell, C. Stuart, P.E.-6-EDU
 Ferris, Ronald K., P.E.-2-PEP
 Fezler, M. Day III, P.E.-7-IND
 Fielding, John R., P.E.-2-IND
 Filgo, Ward S.-4-GOV

Fillastre, Arthur P. III, P.E.-2-CON
 Fillette, Gary L., P.E.-1-IND
 Finley, James C., P.E.-7-PEP
 Firmin, Marvin L., P.E.-7-CON
 Fischer, Frank P., Jr., P.E.-7-PEP
 Fish, Russell H., P.E.-2-PEP
 Fisher, Arnold R., P.E.-7-IND
 Fisher, Charles L., P.E.-7-GOV
 Fisher, Earl V., P.E.-9-IND
 Fisher, Lawrence R., Jr., P.E.-9-PEP
 Fisher, Melvin S., Jr.-9-IND
 Fisher, Patrick W.,-7-CON
 Fiske, John H.-7-CON
 Fitzgerald, Richard F.-8-CON
 Fitzgerald, Robert W., P.E.-8-CON
 Fitzgerald, William E., P.E.-8-IND
 Flanagan, John J., P.E.-7-GOV
 Fleming, John P., P.E.-7-PEP
 Fletcher, Fred J., P.E.-2-IND
 Fletcher, Laird C.-1-GOV
 Fletcher, Robert M., Jr.-2-IND
 Flettrich, Carl F., P.E.-7-PEP
 Flettrich, David C., P.E.-7-PEP
 Flettrich, Harold L., P.E.-7-None
 Flores, Jose C.-4-CON
 Flores, Michael W., P.E.-7-PEP
 Flotte, Lionel E., Jr., P.E.-7-PEP
 Flotte, Lionel E., Sr., P.E.-7-None
 Flower, Paul H., P.E.-7-IND
 Floyd, J.T., P.E.-7-PEP
 Flynn, Harold J., P.E.-7-IND
 Flynn, Homer, Jr., P.E.-8-CON
 Flynn, Mike L., P.E.-1-CON
 Folk, Thomas J., P.E.-6-CON
 Follett, Prescott H., P.E.-7-PEP
 Folse, John O., P.E.-7-PEP
 Fontcuberta, Ralph P., Jr.,-7-PEP
 Fonte, Paul V., P.E.-7-IND
 Fontenot, Daryle L.-4-IND
 Fontenot, John C., P.E.-1-IND
 Fontenot, Leonard G., P.E.-1-IND
 Fontenot, Martin L.-5-IND
 Fontenot, Paul N., P.E.-4-PEP
 Fontneot, Robert-5-None
 Ford, David N., P.E.-7-PEP
 Ford, Harold N., P.E.-7-IND
 Fordham, Donald G., P.E.-6-IND
 Fore, John C., Jr.-4-PEP
 Foreman, Clare M., P.E.-7-IND
 Foret, William A., Jr., P.E.-7-CON
 Forrester, Henry H., Jr., P.E.-2-IND
 Forte, Vincent A., P.E.-2-PEP
 Foshee, Charles W.-2-IND
 Fossier, Paul B., Jr.-2-GOV
 Foster, Billy R., P.E.-7-PEP
 Foster, Carl M.-6-IND
 Foster, Charles W., P.E.-6-IND
 Foster, Chas. B., Jr., P.E.-8-GOV
 Fourchy, Paul J.-7-CON
 Fowler, James R., P.E.-2-GOV
 Fowler, Maxie J., P.E.-6-IND
 Fowler, Theodore P.-7-IND
 Fowler, Walter C., P.E.-1-PEP
 Fox, Frederick H., P.E.-7-EDU
 Fraering, Palmer J., P.E.-7-IND

Francillo, Luigi, P.E.-7-PEP
 Frank, Sam B., Jr.-1-IND
 Franklin, Angie-2-None
 Franklin, Duard D.-2-IND
 Franklin, Henry J., P.E.-7-CON
 Franklin, Robert K.-5-IND
 Franks, James, Jr.-1-PEP
 Fransen, Albert J., P.E.-7-PEP
 Frazier, Kenneth W., P.E.-8-PEP
 Frederic, Edgar H., Jr., P.E.-2-IND
 Frederick, Bradley M.-2-PEP
 Fredrick, Irvin G.-4-None
 Freedman, Richard W.-7-EDU
 Freeman, J. J. P.E.-7-PEP
 Freeman, Wharrell, P.E.-7-IND
 Freidrich, Russell A., P.E.-6-PEP
 French, E. J., P.E.-8-GOV
 French, W. H., P.E.-7-PEP
 Freshwater, John A., P.E.-9-IND
 Freyou, Simon J., P.E.-4-CON
 Fricke, Edwin P.-7-None
 Friday, Donald R., Jr.-8-CON
 Fridge, John M., P.E.-5-IND
 Fried, David B., Jr., P.E.-7-IND
 Frith, Kenneth M., P.E.-2-IND
 Fritzenschaft, Peter-5-None
 Frohn, David R., P.E.-5-IND
 Fromherz, Frank C. II, P.E.-7-PEP
 Fromherz, Frank C., P.E.-7-PEP
 Fromherz, Thomas A., P.E.-7-PEP
 Frost, Allen G.-3-CON
 Frye, William W., Jr., P.E.-7-PEP
 Fuchs, Joseph M.-7-None
 Fuglaar, James T.-1-IND
 Fuller, Clark H., Jr., P.E.-9-PEP
 Fuller, Forney, Jr., P.E.-7-None
 Fuller, George-4-None
 Fulmer, Rodger D.-6-IND
 Furlow, Charles R., P.E.-2-PEP
 Fuselier, Carroll J., Jr., P.E.-1-IND
 Fuselier, Charles A., P.E.-4-CON

—G—

Gadberry, Foy B.-6-PEP
 Gaddy, Kendall A., P.E.-7-IND
 Gagliano, Nicholas J., P.E.-7-PEP
 Gagnon, Leo W., P.E.-2-PEP
 Gajan, U.J., P.E.-4-PEP
 Galen, John C., P.E.-8-GOV
 Gallagher, Geo. C., Jr.-2-IND
 Galliano, Ronald A.-3-CON
 Gallop, Benjamin J.-1-CON
 Galloway, Louie A., III, P.E.-9-IND
 Galster, David L.-2-IND
 Galvin, P.K.-7-IND
 Gambel, Peter S.-7-IND
 Gamble, W.T., P.E.-8-GOV
 Gandolfi, Donald-7-None
 Gandolfi, Ken-7-None
 Gandolfi, Thomas G.-7-PEP
 Garber, Benjamin A., P.E.-5-PEP
 Garber, James D., P.E.-4-EDU
 Garcia, Emilio C., P.E.-7-PEP
 Garcio, Emilio C., Jr.-7-None
 Gardner, Richard E.-8-IND

Gardner, Thomas F., P.E.-7-CON
 Garity, William E., P.E.-7-IND
 Garman, Melvin C., Jr., P.E.-6-EDU
 Garred, Michael A.-4-CON
 Garrett, Joseph-2-PEP
 Garrison, Robert W., Jr.-2-PEP
 Garth, John A.-7-IND
 Gates, Kathleen B.-2-None
 Gates, Thurmond J., P.E.-1-GOV
 Gaubert, Lloyd F.-7-IND
 Gaudet, James T., P.E.-4-PEP
 Gaudin, Louis B., P.E.-2-IND
 Gaugler, J.R., P.E.-4-IND
 Gauthier, Steven P., P.E.-1-IND
 Gautreau, Dennis L.-7-IND
 Gautreau, Glynn P., P.E.-2-PEP
 Gautreaux, Boyd T., P.E.-7-GOV
 Gay, Charles R., P.E.-8-CON
 Gean, William E., P.E.-4-IND
 Geerdes, Dale D., P.E.-7-IND
 Gegg, Debra A.-8-IND
 Gentry, James C.-2-IND
 Geohegan, Kelly P.-7-PEP
 Geohegan, P. Casey-7-PEP
 George, Kimberly-7-None
 Gereighty, David-7-None
 German, Jose N., P.E.-2-PEP
 Germano, Frank J., P.E.-2-EDU
 Germany, Thomas H., P.E.-8-IND
 Gernon, Clarke J.-2-PEP
 Gernon, George O., P.E.-3-CON
 Gess, Thomas E.-2-IND
 Giangrosso, Roy A., P.E.-7-IND
 Giannone, Richard G., P.E.-2-CON
 Gianoli, Gerard J.-7-None
 Giardina, Jacob A., P.E.-3-PEP
 Giardina, John W., Jr.-7-PEP
 Gibson, John W., P.E.-5-IND
 Gibson, Thomas S., P.E.-7-CON
 Gibson, Walter D.-1-CON
 Giddens, John B., Jr., P.E.-7-PEP
 Gieseler, William J., P.E.-7-CON
 Gilbert, James G., P.E.-7-CON
 Gilbert, James R., P.E.-2-PEP
 Gilbert, Riley L., P.E.-9-IND
 Gillespie, John F., Jr., P.E.-8-GOV
 Gilliam, Charles D., P.E.-2-IND
 Gills, Julian S.-7-IND
 Gimse, Thomas J.-6-IND
 Ginn, Sharon P.-7-IND
 Gipson, Gary S.-2-EDU
 Giraud, Nanette-7-None
 Giraud, Robert J.-7-IND
 Girgis, Gamil B., P.E.-7-PEP
 Girling, Louis E., P.E.-7-PEP
 Girod, Quincy G.-6-IND
 Giroir, Gerard, Jr.-7-GOV
 Gisclair, David C.-3-PEP
 Glassell, Wesley D., P.E.-8-GOV
 Glaubrecht, George G.-4-PEP
 Godchaux, Mayer-7-None
 Godchaux, Walter, Jr., P.E.-7-IND
 Going, Steven N.-7-None
 Goldstein, Harry G., P.E.-7-PEP
 Goldstein, Robert M., P.E.-7-PEP

Gomez, Ivan, P.E.-3-GOV
 Gondran, J.M.-7-None
 Gonsoulin, Randy M.-4-IND
 Gonzales, Roger-7-None
 Gonzalez, Raul, P.E.-2-EDU
 Gooding, Timothy J., P.E.-7-IND
 Goodrich, Charles S., P.E.-8-IND
 Goodrich, Ferdinand C.-7-IND
 Goodwin, James E., P.E.-3-PEP
 Goodwin, Jimmie R., P.E.-6-IND
 Gordon, Richard A. III-2-IND
 Gore, James R., P.E.-7-PEP
 Gorman, Harold J., P.E.-7-GOV
 Gormsen, Eric V.-1-IND
 Gorsha, N. J.-1-PEP
 Gorsha, Newton J., Jr., P.E.-1-PEP
 Gossen, Gerald M., P.E.-4-PEP
 Gossen, Joseph P., P.E.-2-GOV
 Goyne, Tom W., P.E.-3-IND
 Grace, Denis, B., P.E.-7-GOV
 Graham, James B., P.E.-7-PEP
 Graham, R. N., Jr., P.E.-9-IND
 Gramling, P. G., Jr., P.E.-6-IND
 Granberry, Robert R., P.E.-4-CON
 Granger, Jimmy E.-5-IND
 Grant, Arthur G., P.E.-7-PEP
 Grant, Carl F. P.E.-2-GOV
 Grantham, Jesse A., P.E.-4-PEP
 Graves, Charles L., P.E.-7-CON
 Graves, John A., P.E.-2-PEP
 Graves, Richard M., P.E.-9-GOV
 Graves, Robert G., P.E.-2-GOV
 Gray, Richard C.-1-IND
 Gray, Robert E.-8-IND
 Gray, Robert W., III, P.E.-2-PEP
 Greco, Edward C., P.E.-8-EDU
 Green, Barry D.-7-IND
 Green, Merlin L., P.E.-5-IND
 Greenacre, Alan, P.E.-7-PEP
 Greenberg, James M.-1-IND
 Greenwald, Edward H., P.E.-9-PEP
 Greer, Don A., P.E.-8-IND
 Gregory, Harbert S., P.E.-7-IND
 Gregory, Randall C.-4-IND
 Grehan, Robert H., P.E.-7-PEP
 Gremillion, Blaine P.-5-IND
 Gremillion, Mark S., P.E.-9-PEP
 Gremillion, Richard M., P.E.-2-IND
 Gressens, Glenn F., P.E.-2-PEP
 Grier, Terry R.-2-IND
 Griffin, James L., P.E.-6-EDU
 Griffin, Robert H., P.E.-7-IND
 Griggas, Mary A.-9-IND
 Grimes, Grover B.-7-CON
 Griswold, Richard F., P.E.-8-CON
 Groh, George J., P.E.-7-PEP
 Grooms, Jerry A., P.E.-4-PEP
 Gros, Glenn D., P.E.-3-CON
 Grosch, John F. III, P.E.-2-PEP
 Gross, Greg A.-7-PEP
 Gross, Michael J.-7-IND
 Groves, Frank R., Jr., P.E.-2-EDU
 Groves, Stanford E., P.E.-2-IND
 Grow, Ernest J., Jr.-3-IND
 Growden, Arthur T.-7-PEP

Grubb, Robert J., P.E.-7-GOV
 Grundmann, Lawrence C., P.E.-7-IND
 Gruntz, Louis G., Jr., P.E.-7-IND
 Grush, Robert J., P.E.-7-PEP
 Guedry, Juno-4-CON
 Guedry, Keith C., P.E.-3-IND
 Guell, M.R., P.E.-7-None
 Guerrero, Albert H.-7-PEP
 Guice, Leslie K., P.E.-6-EDU
 Guidry, Albert I., Jr.-3-PEP
 Guidry, Albert I., P.E.-3-IND
 Guidry, Charles L., P.E.-4-IND
 Guidry, Donald J., P.E.-7-PEP
 Guidry, John K.-4-IND
 Guidry, Joseph E.-9-GOV
 Guidry, Michael P., P.E.-4-GOV
 Guidry, Raymond J.-3-IND
 Guilbault, M.D.-1-CON
 Guillaume, Rhaoul A., P.E.-2-PEP
 Guillory, J.M., P.E.-7-IND
 Guillot, Gerard J.-7-PEP
 Guillot, John A.-7-PEP
 Guillot, Malcolm A., P.E.-7-GOV
 Guillot, Melanie E.-2-GOV
 Guin, Billy J., P.E.-8-PEP
 Guinn, David C., P.E.-9-IND
 Guion, James F., P.E.-3-IND
 Guissinger, Roger P., P.E.-2-GOV
 Guiza, Donato E., P.E.-7-IND
 Gulick, Walter C., P.E.-2-IND
 Gullede, Morris J., Jr., P.E.-8-CON
 Gunn, Bobby G., P.E.-7-CON
 Gunter, L. C.-6-CON
 Gurney, Isaac M., P.E.-4-PEP
 Gurney, William B., P.E.-2-None
 Gurtler, Friedrich W.-7-CON
 Gurtler, Martin M., P.E.-7-PEP
 Guth, John J., Jr., P.E.-8-PEP
 Gutierrez, Alberto F., P.E.-9-PEP
 Gutierrez, James E., P.E.-2-IND

—H—

Haas, J. Mark-7-None
 Haas, Linda-7-None
 Haase, John A., III, P.E.-7-PEP
 Haase, Robert R., P.E.-7-PEP
 Habisreiter, Raymond J., P.E.-7-PEP
 Hackett, Lauri-7-None
 Hadley, William O., Sr., P.E.-6-EDU
 Hagstette, E. J., Jr.-9-None
 Hair, Charles W., III, P.E.-2-PEP
 Hair, Charles W., Jr., P.E.-2-GOV
 Hakenjos, Carl B.-7-IND
 Hale, Paul N., Jr., P.E.-6-EDU
 Haley, Douglas L., P.E.-2-IND
 Hall, Clarence E.-2-EDU
 Hall, Gregory G., P.E.-8-PEP
 Hall, Jeffrey D.-2-IND
 Hall, Peyton R., Jr., P.E.-9-PEP
 Hall, Robert T.-5-None
 Hall, Stephen S.-7-PEP
 Haller, Edwin N., Jr., P.E.-7-GOV
 Hallman, Bob E., P.E.-4-CON
 Halphen, Fabio G., Jr., P.E.-2-IND
 Hamilton, Allen J.-3-IND

Hamilton, George B., P.E.-4-PEP
 Hamilton, James H., P.E.-9-IND
 Hamilton, John S., Jr., P.E.-6-None
 Hamilton, John W., Jr., P.E.-6-IND
 Hamm, Thomas M., P.E.-8-CON
 Hammett, Bryant, O., Jr.-1-PEP
 Hammett, Henry L., P.E.-7-IND
 Hammons, Robert W.-9-IND
 Hanafy, Gerald W., P.E.-7-PEP
 Hancock, S. Dale, P.E.-2-IND
 Handy, Beverly B., III-6-GOV
 Handy, L.P., P.E.-2-PEP
 Haney, Ben J., P.E.-7-EDU
 Hanks, Jerri L.-2-EDU
 Hannaman, Fred A., Jr., P.E.-2-PEP
 Hannoura, A'Alim A., P.E.-7-GOV
 Hansel, Bradley L., P.E.-2-IND
 Harbin, Harry C., P.E.-9-PEP
 Harbour, Robert L., Jr., P.E.-2-None
 Hardey, John B., Jr.-7-PEP
 Harding, Fenton, P.E.-9-PEP
 Hardwick, Guy-7-IND
 Hargrave, Wallace J., P.E.-2-GOV
 Hargrove, John Q.-2-PEP
 Harlan, Charles G., P.E.-2-GOV
 Harlan, Eric H.-5-IND
 Harman, Joe H., P.E.-2-PEP
 Harmeyer, Frederick W., P.E.-7-CON
 Harris, Allan J., P.E.-7-PEP
 Harris, Alphonso, Jr.-7-None
 Harris, Barton W.-7-PEP
 Harris, Frank, P.E.-8-PEP
 Harris, John J. Jr., P.E.-7-PEP
 Harris, Stanley J.-7-CON
 Harris, Willie R., P.E.-9-IND
 Harrison, Donald R., P.E.-6-PEP
 Harrison, Jesse W., P.E.-6-PEP
 Harrison, O. R., P.E.-9-PEP
 Harrison, William C. P.E.-9-PEP
 Harriss, J.G., Jr., P.E.-8-PEP
 Harriss, Jeffrey M.-8-CON
 Hart, C. Harold, Jr., P.E.-7-PEP
 Hart, Robert A., III, P.E.-2-PEP
 Harter, Earl M., Jr., P.E.-8-PEP
 Hartwell, Norman A., Jr.-4-PEP
 Hartzmann, Edwin, P.E.-7-IND
 Harwell, Jeffrey J.-4-IND
 Hasling, Randall, J.-7-None
 Hassenboehler, Jimmy C., P.E.-7-CON
 Hassinger, James E., P.E.-7-PEP
 Hathaway, Clinton, Jr.-7-None
 Hauer, Herbert E., P.E.-7-IND
 Haulman, Clement R.-4-PEP
 Hava, Kenneth R., P.E.-7-IND
 Havard, Robert H., P.E.-6-IND
 Hawkins, John F., Jr., P.E.-8-IND
 Haydel, Gerald M., P.E.-7-PEP
 Haydel, Roger J., Jr.-7-IND
 Hays, Magruder G., P.E.-4-IND
 Hazlip, Samuel W., III, P.E.-2-PEP
 Hazlip, Stephen W.-2-PEP
 Heath, Marion D., P.E.-9-None
 Heausler, Thomas F.-7-PEP
 Hebert, Andrew J., Jr., P.E.-3-IND
 Hebert, Calvin J., P.E.-2-IND

Hebert, Carl A.-4-None
 Hebert, Daniel A.-3-GOV
 Hebert, David C., P.E.-7-PEP
 Hebert, Ehiram, P.E.-2-CON
 Hebert, Floyd C., P.E.-1-GOV
 Hebert, G.G., P.E.-7-CON
 Hebert, John E.-4-None
 Hebert, John O., Jr., P.E.-5-IND
 Hebert, Julie C.-4-None
 Hebert, Kermit L., P.E.-4-GOV
 Hebert, Larry M., P.E.-4-IND
 Hebert, Leonard B., Jr., P.E.-7-CON
 Hebert, Leslie E., Jr., P.E.-7-IND
 Hebert, Malcom P., P.E.-1-None
 Hebert, Marcus-4-None
 Hebert, Michael L.-4-PEP
 Hebert, Morris P.-3-PEP
 Hebert, Norris P.-2-None
 Hebert, Omer J., P.E.-2-IND
 Hebert, Randall J., P.E.-4-PEP
 Hebert, Wayne-4-PEP
 Hebert, William M. III, P.E.-7-IND
 Heck, Carl E., Jr.-3-PEP
 Heck, Carl E., Sr., P.E.-3-PEP
 Heck, David T., P.E.-3-PEP
 Hedegard, Adolph, Jr., P.E.-7-CON
 Hedges, Charles S., P.E.-7-PEP
 Heffington, William E., P.E.-1-GOV
 Heffron, Timothy-7-None
 Heft, G. A., P.E.-7-PEP
 Heikamp, A. J., Jr., P.E.-7-IND
 Heil, T. C., P.E.-2-PEP
 Heinemann, Hans N., P.E.-7-PEP
 Hejnal, Dale M.-9-IND
 Held, Lloyd A., P.E.-7-PEP
 Helfman, Samuel J., P.E.-2-PEP
 Heller, George L., P.E.-6-IND
 Henderson, J. H.-2-CON
 Henderson, John D., Jr., P.E.-5-IND
 Hendrickson, M. Jay, P.E.-7-IND
 Henke, Werner, P.E.-4-IND
 Hennigan, Robert H., P.E.-8-GOV
 Henry, H. L., P.E.-6-EDU
 Henry, Robert R., P.E.-4-EDU
 Hensley, Quenton, V., P.E.-7-IND
 Herbert, Henry A., Jr.-7-IND
 Herbst, William H., P.E.-7-None
 Herman, Sanford, P.E.-9-PEP
 Herndon, Jeffrey G., P.E.-7-IND
 Herndon, Wesley W.-7-CON
 Hero, Allen A., P.E.-7-PEP
 Hero, Numa C., P.E.-7-PEP
 Heroman, Dorian P., P.E.-2-PEP
 Heroy, Frank M., Jr., P.E.-2-GOV
 Herpin, J. O., Jr., P.E.-6-IND
 Herrmann, Walter T., P.E.-7-IND
 Heston, Larry R., P.E.-7-IND
 Hickey, William, P.E.-2-GOV
 Hicks, Robert W., P.E.-7-GOV
 Hicks, Victor C.-7-PEP
 Hiers, Charles W., P.E.-7-PEP
 Hiers, Michael L., P.E.-1-GOV
 Hill, Arthur M.-9-EDU
 Hill, Charlene M.-7-None

Hill, George W.-7-None
 Hill, Harold C., P.E.-6-CON
 Hill, Joseph C., P.E.-2-PEP
 Hill, Kenneth V., P.E.-8-PEP
 Hill, Lee C., P.E.-4-IND
 Hill, Robert, P.E.-8-CON
 Hill, Roland D., P.E.-9-GOV
 Himel, Newton, P.E.-1-IND
 Hinckley, Robert O., P.E.-4-EDU
 Hingle, Roy C., P.E.-7-IND
 Hinojosa, Mariano, P.E.-2-GOV
 Hinrichs, H.J., P.E.-7-GOV
 Hinson, Leon T.-4-None
 Hipps, James W.-2-PEP
 Hirshbeck, Edward O., P.E.-7-IND
 Hixson, T.D., P.E.-1-PEP
 Hoang, An N. P.E.-7-GOV
 Hobbs, John E.-2-PEP
 Hodges, Raymond D., P.E.-2-PEP
 Hoffman, John F., P.E.-3-PEP
 Hoffner, Jacqueline-7-None
 Hogan, Joseph T., P.E.-7-GOV
 Hogan, William J.-7-CON
 Hogue, Trudeau J., Jr., P.E.-2-IND
 Holdman, William E., P.E.-6-PEP
 Holeman, Harold D.-2-IND
 Holladay, C.H., Jr., P.E.-9-IND
 Holland, Joseph A., P.E.-7-CON
 Hollander, Eileen E.-7-IND
 Hollander, Jack D.-7-CON
 Hollaway, Ralph B., P.E.-1-IND
 Holley, Carol E.-6-None
 Holliday, Richard E.-2-IND
 Hollier, Joseph K.-2-IND
 Hollier, Warren R., P.E.-4-IND
 Hollinshead, John A., P.E.-3-IND
 Hollis, David W.-9-None
 Holman, Robert E., P.E.-2-IND
 Holman, Wendell, W., P.E.-4-CON
 Holmes, Charles R., Jr.,-7-IND
 Holstead, Robert D., P.E.-6-EDU
 Holt, Fred G.-8-IND
 Holt, Jack M., P.E.-4-PEP
 Holzenthal, Jerich-7-None
 Holzenthal, Leo L., P.E.-7-GOV
 Honeycutt, Auther H., P.E.-7-IND
 Hong, Tom T.-4-CON
 Honjo, Karen K.-7-None
 Honn, D. Thomas, P.E.-9-PEP
 Hood, Norris D., Jr., P.E.-2-IND
 Hood, Robin M., P.E.-8-GOV
 Hooper, James R., P.E.-7-PEP
 Hoover, Lloyd G., P.E.-8-CON
 Hopewell, Laura C.-1-IND
 Hoppe, Peter A., Jr., P.E.-4-PEP
 Hornsby, James B., Jr., P.E.-2-PEP
 Hornsby, Robert G., P.E.-2-IND
 Horton, John L., P.E.-8-IND
 Horton, R. L., P.E.-8-GOV
 Hoskins, Harry D., Jr., P.E.-7-PEP
 Hoskins, Lawrence H.-7-IND
 Hotard, Dale-5-None
 Hottinger, S.E., Jr., P.E.-7-IND
 Houser, Daniel M., P.E.-9-IND
 Housey, John J., Jr., P.E.-7-CON

Howard, Donald P., P.E.-7-IND
 Howard, H.D.-2-PEP
 Howard, Jerry E., P.E.-8-IND
 Howe, William M., P.E.-9-GOV
 Howell, Daniel E.-7-None
 Howson, Robert E., P.E.-7-CON
 Hsu, Chsun-Yi-4-IND
 Huber, Martin L., P.E.-7-IND
 Huckabay, H.K., P.E.-6-EDU
 Hude, Gary R.,-9-CON
 Hudson, Claude H., Jr., P.E.-2-IND
 Hudson, J.L., P.E.-6-IND
 Hudson, William M., Jr., P.E.-4-PEP
 Hudspeth, Alvin R., P.E.-5-IND
 Huey, F.M., P.E.-6-PEP
 Huey, J.T., P.E.-4-GOV
 Huey, Stanton E., Jr., P.E.-6-PEP
 Huey, Stanton, E., P.E.-6-PEP
 Huey, William S., P.E.-7-IND
 Hughes, E.F., P.E.-7-GOV
 Hughes, Gregory K., P.E.-7-IND
 Hughes, Robert C., P.E.-6-PEP
 Hulett, Albert D., Jr.,-6-PEP
 Hulin, Glenn, J.-2-IND
 Hull, Donald F., P.E.-7-GOV
 Hull, Falcolm E., P.E.-7-GOV
 Humphreys, Christopher G.-6-PEP
 Humphries, Charles L.-1-PEP
 Hungate, Harry A.-2-IND
 Hunn, Dale T., P.E.-7-PEP
 Hunt, Alvin N., P.E.-2-None
 Hunter, Donald G., Jr.-1-CON
 Huranna, Eric A.-3-IND
 Hurst, James A.-1-IND
 Hurstell, John P.-2-None
 Hurstell, Malcolm L., P.E.-7-IND
 Hurtt, George W., P.E.-7-None
 Hutchinson, Ray J., P.E.-3-CON
 Hutton, Henry M., Jr., P.E.-1-CON
 Huval, David S., P.E.-4-CON
 Huval, Terry J.-4-EDU
 Hyman, Wayne P., P.E.-4-IND
 Hymel, Lawrence P., Jr.,-2-IND
 Hymel, Norwood, P.E.-7-PEP

-I-

Ianni, Emile-7-None
 Iles, John L.-8-IND
 Ilgenfritz, James F., P.E.-7-IND
 Illanne, Charles M.-7-IND
 Imes, Ivan E., P.E.-2-PEP
 Irland, Frank W., P.E.-8-IND
 Irwin, George M., P.E.-7-IND
 Isaac, George A., P.E.-7-PEP
 Issac, Henry T., P.E.-7-CON
 Iverson, Donald G., P.E.-7-PEP
 Ivy, Charles B., P.E.-7-CON
 Ivy, Ted S.-2-IND

-J-

Jablonowski, Wayne J.-7-CON
 Jackman-Joan M.-7-None
 Jackson, Carey M., P.E.-2-IND
 Jackson, Christian D., P.E.-3-IND

Jackson, Curtis P.-3-CON
 Jackson, Frank J., P.E.-7-PEP
 Jackson, John C., P.E.-2-CON
 Jackson, Thomas L., P.E.-7-PEP
 Jackson, Victor N.-3-None
 Jacob, Gary R., P.E.-7-IND
 Jacobs, Roy P.-9-CON
 Jacques, C.F., P.E.-2-IND
 Jahnke, David H., P.E.-7-IND
 Jalenak, Jay M., P.E.-7-None
 Jambor, George, P.E.-8-PEP
 James, Cynthia M.-2-None
 Jameson, John D., P.E.-9-CON
 Janneck, Margaret, C.-7-None
 Janssen, James S., P.E.-7-PEP
 Jarman, J.E., P.E.-4-None
 Jarrell, William H., Jr., P.E.-4-PEP
 Jarvis, Franklin M.-7-IND
 Jay, William S.-7-PEP
 Jean, Joseph W., Jr., P.E.-8-PEP
 Jeanmard, Charles A., P.E.-4-PEP
 Jeanmard, Ernest F., P.E.-1-IND
 Jeffrey, Neill P., Jr., P.E.-7-PEP
 Jenkins, Franklin H., P.E.-6-PEP
 Jenkins, J.H., Jr., P.E.-2-PEP
 Jenkins, James S.-6-IND
 Jenkins, Raymond E., P.E.-4-EDU
 Jenkins, William L., P.E.-6-PEP
 Jensen, Allen H., P.E.-7-IND
 Jesclard, Gerard P., P.E.-7-None
 Jessen, D.W., P.E.-5-PEP
 Jeter, Rodney L.-1-PEP
 Jett, Edwin N.-8-IND
 Jimenez, Lisette-7-None
 Joffrion, James R., P.E.-2-PEP
 Johns, Stephen O., P.E.-7-PEP
 Johnson, Alton R., P.E.-6-IND
 Johnson, Barry W.-3-IND
 Johnson, David L., P.E.-6-EDU
 Johnson, Erwin R., P.E.-7-CON
 Johnson, Fielding H., P.E.-2-PEP
 Johnson, Frank B., P.E.-2-EDU
 Johnson, Frank E., Jr., P.E.-9-PEP
 Johnson, James D.-7-None
 Johnson, James, P.E.-1-IND
 Johnson, Joann-8-IND
 Johnson, Lee H., P.E.-7-EDU
 Johnson, Milton R., Jr., P.E.-6-EDU
 Johnson, O.D., Jr., P.E.-2-None
 Johnson, Ray J.-7-IND
 Johnson, Richard E., P.E.-6-CON
 Johnson, Richard L.-4-IND
 Johnson, Roy E., P.E.-7-PEP
 Johnson, Thomas H., Jr.-7-PEP
 Johnson, Tilghman L.-5-IND
 Johnson, Willie O., P.E.-7-PEP
 Johnston, Dennis, M.-7-CON
 Johnston, Morley T.-6-IND
 Johnston, William H., P.E.-7-None
 Joiner, Virgil G.-7-PEP
 Jolissaint, Robert E.-7-None
 Jolley, Francis L., P.E.-4-PEP
 Jolls, F.K., P.E.-7-PEP
 Jolly, E.M., P.E.-8-PEP
 Jolly, Suman, P.E.-7-PEP

Jones, Arnott L., Jr., P.E.-8-IND
 Jones, Bryce H., II-2-IND
 Jones, C.P., P.E.-7-PEP
 Jones, Elmer, P.E.-2-PEP
 Jones, Leeland H., P.E.-5-CON
 Jones, Richard A.-8-CON
 Jones, Robert E., P.E.-8-PEP
 Jones, Robert S., P.E.-7-IND
 Jones, Roy D., P.E.-8-PEP
 Jones, Samuel K.-9-IND
 Jones, Sidney F., P.E.-9-None
 Jones, Warren E.-7-CON
 Jordan, Dennis G., P.E.-4-IND
 Jordan, Jesse W.-3-IND
 Jordan, John E.-5-IND
 Jorden, Jack C., Jr., P.E.-8-PEP
 Joyner, John R. LS, P.E.-4-IND
 Judice, Reggie P., P.E.-4-IND
 Jukes, Harry R., P.E.-3-IND
 Julian, John A.-7-IND
 Julian, John C., P.E.-2-CON
 Juneau, Herbert J., Jr., P.E.-4-GOV
 Junius, Ralph W., Jr., P.E.-7-PEP
 Junkin, William E., P.E.-4-PEP
 Justice, James W., P.E.-2-IND
 Justice, Robert J., P.E.-4-IND

—K—

Kahl, Robert J., III-7-GOV
 Kahn, Charles N., Jr., P.E.-7-CON
 Kalencki, Ted H., P.E.-2-PEP
 Kaler, Emile T., Jr., P.E.-7-IND
 Kammer, Noel P.-7-None
 Kanter, David, P.E.-7-PEP
 Karavataki, Ted, P.E.-4-IND
 Karisemie, Dabipi I.-2-EDU
 Karkalits, Carroll, P.E.-5-EDU
 Karr, Dale G., P.E.-7-IND
 Kazmann, Raphael G., P.E.-2-PEP
 Keaton, H.L., P.E.-7-None
 Keaty, Thomas S.-7-None
 Keiler, Arthur R.-9-None
 Keller, Charles Jr., P.E.-7-PEP
 Keller, Deborah, D.-7-IND
 Kellermann, George H.-7-IND
 Kelley, Byron R.-1-IND
 Kelley, Roy S., P.E.-7-CON
 Kelley, Timothy E., P.E.-2-PEP
 Kelly, Claude J., Jr., P.E.-7-IND
 Kelly, Claude J., Sr., P.E.-7-None
 Kelly, John J., P.E.-2-PEP
 Kendall, Elizabeth R.-9-None
 Kennedy, Donald R.-2-PEP
 Kennedy, Jerry S., P.E.-6-IND
 Kennedy, Temple R., P.E.-7-PEP
 Kennedy, Troy L., Jr.-6-CON
 Kennedy, William H., P.E.-2-PEP
 Kepper, James H. III, P.E.-7-CON
 Kernion, David M., P.E.-2-PEP
 Kerr, Jamie H., P.E.-9-None
 Kerr, Miller W., P.E.-2-IND
 Keswani, Har G., P.E.-7-PEP
 Ketterer, Michael A.-9-IND
 Key, John, P.E.-4-PEP
 Khachaturian, Jon E.-7-IND

Khare, Angil K., P.E.-2-IND
 Kidd, Joseph D.-6-EDU
 Kilby, Jerry L.-3-PEP
 Killgore, Charles A., P.E.-6-PEP
 Killgore, Ellis M., P.E.-6-EDU
 Killingsworth, Stephen A., P.E.-4-EDU
 Kilpatrick, Larry S.-9-CON
 Kinchen, Bolden L., Jr., P.E.-2-IND
 Kinchen, J. D., P.E.-2-IND
 King, H. M., Jr.-1-IND
 King, John S., P.E.-2-IND
 Kinniff, Jeffrey J.-4-IND
 Kinsley, Fred H., P.E.-7-IND
 Kiper, Bobby J., P.E.-2-PEP
 Kipp, John P., P.E.-4-CON
 Kippels, Horace O., P.E.-2-IND
 Kirby, O. G., P.E.-9-None
 Kirby, Thomas W.-5-IND
 Kirkpatrick, Milton E., P.E.-9-IND
 Kirkwood, A. G., P.E.-7-PEP
 Kistler, Byron C., P.E.-2-PEP
 Kittrell, L. L., P.E.-7-IND
 Kjeldsen, Nels R., P.E.-2-IND
 Kleinpeter, George C., Jr., P.E.-7-PEP
 Kliebert, Remie J., P.E.-7-GOV
 Klimavicz, John J., P.E.-2-IND
 Kline, Mike-5-IND
 Klock, Neil H., Jr., P.E.-1-PEP
 Klos, William A., P.E.-4-EDU
 Knapp, Norval P., P.E.-2-GOV
 Kneipp, L. E., P.E.-8-CON
 Knesal, William E., Jr., P.E.-7-PEP
 Knight, Daniel E., Jr., P.E.-7-PEP
 Knight, J. T., P.E.-9-IND
 Knight, Nat B., Jr., P.E.-7-None
 Knight, W. Chelsae, P.E.-9-PEP
 Knoll, John C.-7-GOV
 Knost, Marion F.-9-None
 Kobzoff, Walter S.-4-PEP
 Kochel, George F.-9-CON
 Kocian, Eric M.-9-IND
 Koehler, Ernest W., Jr.,-7-CON
 Koen, Henry R., Jr., P.E.-7-IND
 Koenig, Neal R.-5-IND
 Koger, Frank H., Jr., P.E.-2-PEP
 Koltun, Stanley P., P.E.-7-GOV
 Komarek, Steven J.-1-IND
 Konantz, Ronald J.-3-PEP
 Konikoff, Prudence A.-9-None
 Koonce, Sarah A.-1-None
 Koons, Paul C., Jr., P.E.-2-None
 Korn, Louis I., P.E.-9-PEP
 Koshak, Warren S.-4-None
 Kramer, F. B., Jr., P.E.-2-PEP
 Kraus, Harold F., P.E.-7-GOV
 Krebs, Joseph J., Jr., P.E.-7-PEP
 Kroidler, Glen L., P.E.-2-IND
 Kron, Susan M.-7-None
 Kronthal, S. H.-9-IND
 Krouse, Alan D., P.E.-2-GOV
 Krouse, Emile S., Jr., P.E.-4-IND
 Krupsky, John W., P.E.-7-IND
 Kueser, Paul E., P.E.-7-PEP
 Kuhlmann, Lyle F., P.E.-7-PEP
 Kuhn, Coleman, P.E.-7-PEP

Kuhn, Lloyd J., Jr., P.E.-7-PEP
 Kuyrkendall, Roy C., P.E.-2-PEP
 Kyle, William G., P.E.-2-CON

—L—

L'Heureux, Howard B., P.E.-1-PEP
 Labat, Wade J., P.E.-2-IND
 Labauve, Kerry J., P.E.-1-PEP
 Labbe, T. J., P.E.-4-IND
 Labiche, Wayne M., P.E.-4-IND
 Laborde, Larry W.-8-CON
 Lacombe, Gary J.-1-EDU
 Lacroix, Kenneth W.-1-PEP
 Lacroix, Randolph B.-1-PEP
 Lacroix, Robert F.-3-IND
 Lafleur, Larry F., P.E.-4-PEP
 Lafleur, Rohan B., P.E.-2-PEP
 Lafranca, Joseph J., P.E.-7-CON
 Lagarde, Paul M., P.E.-7-GOV
 Laiche, Barry J.-3-IND
 Lala, Theodore J., P.E.-7-IND
 Lalumandier, H.C., P.E.-2-PEP
 Lalumandier, Henry C., Jr.,-2-PEP
 Lalumia, Joseph A., Jr.-7-IND
 Lam, Siuwah, P.E.-2-GOV
 Lamb, Bob G., P.E.-2-IND
 Lambdin, Bill H., III-1-CON
 Lambert, Bernard E., P.E.-4-IND
 Lambert, Laurence L., P.E.-7-PEP
 Lambert, Paul A., Jr.,-2-PEP
 Lambert, Paul A., P.E.-3-PEP
 Lambert, Richard C.-7-PEP
 Lambertz, Doris A.-2-None
 Lancaster, J. B., Jr., P.E.-2-PEP
 Landreneau, J. Ronald, P.E.-4-PEP
 Landry, Alton A., P.E.-7-IND
 Landry, Gary K.-4-PEP
 Landry, George A., P.E.-2-CON
 Landry, Glen R., P.E.-4-PEP
 Landry, Henry L., P.E.-5-PEP
 Landry, Joe B., P.E.-4-GOV
 Landry, John M., P.E.-7-CON
 Landry, Onnel C.-7-IND
 Landry, Patrick J.-4-PEP
 Landry, Paul L., P.E.-7-PEP
 Landry, Ronald W.-4-GOV
 Landry, Samuel K., P.E.-7-PEP
 Landry, Samuel P., Jr., P.E.-7-PEP
 Landry, Walter A., P.E.-7-IND
 Landry, Windom T.-2-IND
 Lane, Herrick J., Jr., P.E.-7-PEP
 Lane, James B., P.E.-7-PEP
 Lane, Michael S., P.E.-3-GOV
 Lane, William H., P.E.-2-PEP
 Lang, Charles A.-9-IND
 Lang, Meinrad F., Jr.,-7-PEP
 Lang, Meinrad F., P.E.-7-PEP
 Lange, Kenneth D., P.E.-3-CON
 Langley, Jerome-9-IND
 Langley, John E., P.E.-2-IND
 Langlois, Gerard W., P.E.-2-PEP
 Langlois, Nathaniel T., P.E.-7-CON
 Lanier, E. Sorrell, P.E.-7-PEP
 Lanier, Edward I., P.E.-5-CON
 Lanier, Frank T.-2-IND

Lanier, Michael E.-7-CON
 Lanigan, Thomas C.-7-CON
 Lankford, Larry L., P.E.-4-None
 Lanson, Anthony P., Jr.-7-IND
 Lapeyre, Fernand S., P.E.-7-IND
 Lapeyre, Pierre A., P.E.-3-IND
 Lapointe, Michele M.-7-None
 Larkan, Robert P., P.E.-6-IND
 Larkin, Deborah M.-9-IND
 Larose, David E., P.E.-9-IND
 Larsen, Pendleton W., Jr.-7-PEP
 Larue, Ferdinand L., P.E.-4-EDU
 Lasalle, Shelby P., Jr., P.E.-7-PEP
 Lashley, Lawrence C., Jr., P.E.-8-IND
 Lasseigne, Bryan L., P.E.-4-IND
 Lasseigne, Clyde A.-4-EDU
 Latham, Palmer C.-7-IND
 Latimer, Douglas F., P.E.-2-IND
 Launey, Allison J., P.E.-7-IND
 Laurendine, Thomas T.-7-CON
 Lavender, James M., P.E.-9-GOV
 Laverde, Scott-4-IND
 Lavoie, Philip Z.-2-GOV
 Law, Lawrence J., P.E.-2-IND
 Law, Robert D.-2-PEP
 Lawrence, James A., P.E.-7-GOV
 Lawrence, Robert L.-1-GOV
 Laws, John K., Jr., P.E.-2-PEP
 Lawson, Huey K.-9-EDU
 Lay, Alan G., P.E.-7-PEP
 Lazenby, Jerry G., P.E.-6-PEP
 Le Trang T., P.E.-7-GOV
 Lea, Maxwell A., P.E.-2-None
 Leaber, Robert J., Jr., P.E.-7-PEP
 Leak, Harrison C., Jr., P.E.-2-None
 Lebas, John C., Jr.-7-GOV
 Leblanc, Aldon A., P.E.-4-PEP
 Leblanc, Charles-3-GOV
 Leblanc, Clyde H., P.E.-7-IND
 Leblanc, Dale W., P.E.-4-PEP
 Leblanc, Felix L., Jr., P.E.-4-IND
 Leblanc, H. A., Jr.-7-IND
 Leblanc, Joseph H., P.E.-7-IND
 Leblanc, Larry A., P.E.-2-PEP
 Leblanc, Lester J., P.E.-4-GOV
 Leblanc, Manuel J.-4-PEP
 Leblanc, Owen V., P.E.-7-IND
 Leblanc, Randolph A., P.E.-4-IND
 Leblanc, Richard J., P.E.-2-IND
 Leblanc, Ricky J.-4-PEP
 Leblanc, Terry J.-4-IND
 Leblanc, Wharton A., P.E.-7-IND
 Leblanc, William J., P.E.-2-PEP
 Lechtenberg, W. J., Jr., P.E.-5-PEP
 Lechtenberg, Wendel J., Sr., P.E.-5-IND
 Lecorgne, William R., P.E.-7-IND
 Lecourt, Stanley M., P.E.-7-PEP
 Ledet, Lawrence-4-IND
 Ledoux, C.J., P.E.-7-IND
 Lee, Allen, P.E.-8-IND
 Lee, Dennis W.-9-IND
 Lee, John E., P.E.-2-IND
 Lee, Paul-8-None
 Lee, Siwon R.-7-None

Leeton, Felix B., P.E.-2-IND
 Lefevre, Victor J.-2-None
 Legardeur, George V., P.E.-7-CON
 Legendre, Philip M., P.E.-7-IND
 Leggett, John H.-1-IND
 Legrand, Paul M., II-7-IND
 Lehman, August J., P.E.-7-None
 Lehr, Louis N., P.E.-7-IND
 Leibe, Wendel G., P.E.-7-GOV
 Leigh, Benjamin-2-PEP
 Leinweber, Donald M., P.E.-2-IND
 Lejeune, James J., P.E.-3-None
 Leland, Clarence M., Jr., P.E.-5-PEP
 Lemann, David K., P.E.-3-PEP
 Lemieux, Guy F., P.E.-7-PEP
 Lemieux, Henry F., P.E.-9-IND
 Lemke, Calvin A., P.E.-6-EDU
 Lemoine, Brian-7-None
 Lemonier, David J.-7-PEP
 Leo, John A., P.E.-7-IND
 Leray, Harold P., P.E.-3-CON
 Leshe, Fred E.-5-IND
 Letz, Paul J., P.E.-4-PEP
 Leumas, Marcel J., Jr., P.E.-7-IND
 Levasseur, Katty E.-7-None
 Level, Dorothy B.-4-None
 Levet, Sidney J., III, P.E.-7-PEP
 Levine, David J., P.E.-7-IND
 Livingston, Ernest, P.E.-5-PEP
 Levith, Raymond D., P.E.-7-None
 Levy, Albert P., P.E.-7-IND
 Levy, David P., P.E.-7-IND
 Levy, Raoul L., P.E.-2-PEP
 Lewis, Bette M.-7-EDU
 Lewis, Homer D.-4-IND
 Lewis, Jerry L.-4-PEP
 Lewis, Richard B.-6-EDU
 Lewis, Sidney F., P.E.-7-IND
 Lewis, Wesley-7-None
 Li, Chingchang E., P.E.-2-IND
 Liberto, Dominic J., P.E.-7-IND
 Liebkemann, G.F., P.E.-7-PEP
 Liles, H.A., P.E.-7-IND
 Lima, Jose E., P.E.-2-PEP
 Linarello, Domenick R., P.E.-2-IND
 Lind, Bruce A., P.E.-2-GOV
 Lindemann, Donald L., P.E.-7-IND
 Lindsay, Philip J., P.E.-8-IND
 Lindsey, Earl H., P.E.-7-IND
 Liou, Tang Jyi, P.E.-8-PEP
 Lipari, Charles A., P.E.-4-IND
 Lipari, Frank Jr., P.E.-4-GOV
 Lipham, Ronald C.-2-PEP
 Liprie, Sam F.-5-CON
 Lirette, Brent J.-3-IND
 Lister, Robert F.-5-IND
 Livaccari, Anthony J., Jr.-7-PEP
 Livingston, John H., P.E.-8-IND
 Lo, John B., P.E.-2-CON
 Lo, Yu-Chiao, P.E.-7-PEP
 Lob, William S.-7-None
 Locicero, Joseph III-7-EDU
 Lockard, Marcus J., P.E.-4-PEP
 Lockett, R.P., Jr., P.E.-7-None
 Lockett, T.B., P.E.-7-IND

Lockwood, Alfred K., P.E.-2-IND
 Logan, George C., P.E.-7-IND
 Logan, George L., P.E.-8-PEP
 Logan, Jerry L.-7-None
 Lombard, Harry W., P.E.-7-PEP
 Long, Arthur L., P.E.-3-GOV
 Longo, Salvador E., P.E.-7-EDU
 Lopez, Edwin C.-4-EDU
 Lopez, Wendy A.-4-GOV
 Lorio, Daniel J., III, P.E.-2-IND
 Lorio, James C., P.E.-2-GOV
 Lorio, Jules A.-7-None
 Lorio, Warren H., P.E.-7-IND
 Lorrige, Robert J., P.E.-7-IND
 Loubiere, William A., P.E.-2-IND
 Louchis, Stavros D., P.E.-9-IND
 Loup, Alfred J., Jr., P.E.-2-CON
 Louviere, Ben Jr., P.E.-7-IND
 Lovas, Larry L.-4-PEP
 Lovelace, Gerald J., P.E.-7-GOV
 Lovell, Albert A., P.E.-7-PEP
 Lovell, Robert D.-8-IND
 Lowe, William T.-6-PEP
 Lowery, John L.-2-IND
 Lowry, William W., P.E.-9-IND
 Lowther, James D., P.E.-6-EDU
 Lozes, John P., Jr., P.E.-7-IND
 Lucio, David A.-7-IND
 Ludwig, Dennis A.-9-IND
 Luffey, William M., P.E.-6-IND
 Lukinovich, Andrew L., III-7-IND
 Lundstrom, Curtis L.-7-PEP
 Lundy, Roy A.-4-IND
 Lutgring, Edwin B., Jr.-4-None
 Lutz, James D.-3-IND
 Lyders, Paul S.-2-None
 Lynch, Gerard J.-7-CON
 Lynch, Paul M., P.E.-7-EDU
 Lynde, Gerald D.-8-IND
 Lyons, Val A., P.E.-8-PEP
 Lyttleton, Donald V., P.E.-9-PEP

—M—

Mabile, Deborah L.-7-None
 Mabry, Bob L., P.E.-4-CON
 MacDonald, Frank W., P.E.-7-EDU
 MacDonald, Mark S.-1-IND
 MacDonald, Richard A., Jr.-7-None
 MacKenzie, Kenneth W.-9-IND
 Mackey, Charles F.-2-IND
 Mackie, Richard D.-7-IND
 MacLean, Robert J.-7-IND
 Madden, Henry I., P.E.-7-PEP
 Madden, Jerry M., P.E.-6-PEP
 Madden, Mary A.-2-EDU
 Maddox, James D., P.E.-7-PEP
 Maddux, Raymond P., P.E.-7-None
 Mader, Charles T., P.E.-4-PEP
 Maderakis, James D., P.E.-2-PEP
 Maduell, Roger J.-7-IND
 Magner, Earl J., Jr., P.E.-7-GOV
 Magouirk, Jimmy L.-7-IND
 Magri, Daniel J.-3-IND
 Maher, Thomas F., P.E.-4-EDU
 Mahl, George J., III, P.E.-7-PEP

Mahler, William W., P.E.-7-CON
 Maia, Richard C.-7-None
 Maier, Martin J., P.E.-7-IND
 Major, Leland S.-2-None
 Makofsky, Donald C., P.E.-7-PEP
 Maldonado, Luis F., P.E.-7-IND
 Malek, Nicolas G., P.E.-7-CON
 Malikasim, Lisaman-5-None
 Malloy, Patrick J.-2-None
 Maloy, Bernard F.-2-PEP
 Maloz, Wilson L., Jr.-3-GOV
 Mangipano, Ronald A., P.E.-7-IND
 Maniscalco, Joe, P.E.-4-GOV
 Mann, Charles C., P.E.-7-GOV
 Mann, Dr. L., Jr., P.E.-2-EDU
 Manner, H. H., Jr.-2-IND
 Manning, Thomas A., Jr., P.E.-2-PEP
 Manning, William L., P.E.-7-IND
 Manry, David W.-5-IND
 Manuel, Irving, P.E.-4-IND
 Manuel, Willard R., P.E.-6-IND
 Maranto, James T., P.E.-8-PEP
 Maranto, Robert T., P.E.-8-PEP
 Marceaux, Joseph C., P.E.-6-EDU
 Marchand, Michael L.-1-PEP
 Marchese, John L. P.E.-7-CON
 Marcombe, Gery J., P.E.-4-CON
 Marcombe, Wayland P., P.E.-2-PEP
 Margolin, Terri L.-7-None
 Marin, Michelle H.-7-PEP
 Marino, Charles J., Jr.,-3-CON
 Marino, Johnny A., P.E.-3-CON
 Markel, Henry E., P.E.-7-IND
 Marko, William A.-7-IND
 Maroney, John G., P.E.-6-PEP
 Marquart, Harold O.-7-PEP
 Marr, Ray H., P.E.-4-IND
 Marrero, Hugo A., P.E.-2-PEP
 Marsalis, Gordon A., P.E.-8-IND
 Marshall, David W.-7-GOV
 Marshall, John F., P.E.-7-PEP
 Marsolan, Norman F., Jr., P.E.-6-EDU
 Martel, Earl J., P.E.-4-CON
 Martin, Allen L., P.E.-4-PEP
 Martin, Bruce A., P.E.-2-IND
 Martin, Clyde M., P.E.-4-GOV
 Martin, Danny F.-8-GOV
 Martin, Edwin R.-8-PEP
 Martin, Ernest H., P.E.-4-EDU
 Martin, Glynda H.-9-IND
 Martin, Harvey J., P.E.-7-IND
 Martin, James H., P.E.-4-IND
 Martin, John M., P.E.-4-IND
 Martin, Lisa J.-7-PEP
 Martin, William J., P.E.-4-IND
 Martinez, John L., P.E.-7-EDU
 Martinez, Joseph D., P.E.-2-EDU
 Masangeay, Editio-7-PEP
 Mason, Richard F., Jr., P.E.-6-IND
 Mason, Richard F., P.E.-7-IND
 Massimini, W.A., P.E.-7-IND
 Matherne, Anthony M.-1-IND
 Matherne, John S., P.E.-2-IND
 Matherne, Russell A., P.E.-2-IND
 Mathews, Emmet L.-1-CON
 Mathews, Gary W., P.E.-1-IND
 Mathews, Norman H.-1-PEP
 Mathiesen, Hans M., P.E.-9-IND
 Matt, Miles A.-4-IND
 Matthes, G.F., P.E.-2-EDU
 Matula, Richard A., P.E.-2-EDU
 Maurer, John, Jr.-8-IND
 Mavrinac, Mark L., P.E.-1-IND
 May, George E., P.E.-7-None
 Mayeaux, Paul S., P.E.-7-GOV
 Mayer, John K., P.E.-7-PEP
 Mayer, Mayer, Jr., P.E.-7-GOV
 Mayer, W.G., P.E.-8-GOV
 Mayes, Jimmie R., P.E.-7-PEP
 Mayeux, Raphael, P.E.-4-IND
 Mayeux, Stewart A., P.E.-4-IND
 Mayo, Eugene F., P.E.-7-IND
 McAfee, Howard C., P.E.-7-IND
 McAfee, Samuel H., P.E.-7-IND
 McAlear, Ronald J., P.E.-7-IND
 McAllister, R.W., P.E.-7-IND
 McBride, Charles R., Jr.,-5-IND
 McBride, Henry D.-6-PEP
 McBride, Robert R., P.E.-9-PEP
 McCain, Howard M., P.E.-4-GOV
 McCain, John I., P.E.-2-PEP
 McCain, John T., P.E.-2-PEP
 McCall, Thomas M.-4-PEP
 McCallum, Walter C., P.E.-5-IND
 McCarthy, Frank W., P.E.-8-IND
 McCarty, Marvin-2-CON
 McCaughey, Michael P., P.E.-2-PEP
 McClanahan, Edwin A., P.E.-2-PEP
 McClelland, Harrod H., P.E.-8-PEP
 McClure, Allen W.-7-None
 McConnell, Linda M.-2-PEP
 McConnell, Wayne W.-7-IND
 McCormick, Alan V.-7-None
 McCormick, James S.-7-IND
 McCrary, John D., P.E.-1-GOV
 McCubbin, David M.-2-None
 McCullough, Murray L.-2-PEP
 McCulough, Donald I., P.E.-3-PEP
 McCurnin, Leo P.-7-PEP
 McCutcheon, Steve C.-7-GOV
 McDaniel, Dale K.-7-CON
 McDonald, Charles L.-3-PEP
 McDonald, Hugh G., P.E.-6-GOV
 McDonald, Richard I., P.E.-8-PEP
 McDowell, Robert E., P.E.-8-EDU
 McDowell, Travis S., P.E.-5-IND
 McDuff, Dan D., P.E.-6-GOV
 McGee, David Y., P.E.-6-IND
 McGee, Elwin L., P.E.-8-PEP
 McGee, Ralph D., P.E.-4-PEP
 McGehee, Patrick H.-7-IND
 McGill, Bruce A., P.E.-2-PEP
 McGowan, Charles-7-None
 McGowan, Patrick L.-2-CON
 McGuire, George B.-9-IND
 McHugh, Kelly J., P.E.-7-PEP
 McInnis, George E., P.E.-8-PEP
 McInnis, John L., P.E.-8-CON
 McIntyre, Thomas Q.-7-CON
 McKee, A. G., P.E.-6-EDU
 McKee, Larry A., P.E.-2-PEP
 McKell, M.M., P.E.-2-PEP
 McKenney, John L., P.E.-3-PEP
 McKenzie, James G., P.E.-8-IND
 McKenzie, Robert W., P.E.-2-PEP
 McKinley, J.R., P.E.-8-IND
 McKinney, Patrick C., P.E.-7-CON
 McKinney, Ralph R., Jr., P.E.-8-IND
 McKnight, Oliver R., P.E.-8-PEP
 McKnight, Stacy, P.E.-9-PEP
 McLaughlin, Edward-2-EDU
 McLaury, Norman T., Sr.-6-CON
 McLean, George E., P.E.-7-IND
 McLellan, Charles, P.E.-7-IND
 McLellan, Edward A., P.E.-7-PEP
 McLellan, Rudolph-2-EDU
 McLendon, Gerald D., P.E.-7-IND
 McManis, Kenneth L., P.E.-7-EDU
 McManus, Kenneth C.-6-PEP
 McMickle, Ralph W., P.E.-6-CON
 McNamara, E. J., P.E.-7-IND
 McNamara, John E., P.E.-7-IND
 McNamara, John P., P.E.-3-GOV
 McNamara, Kenning J., Jr., P.E.-7-IND
 McPhate A. J., P.E.-2-EDU
 McPherson, Kenneth-7-None
 McRae, A. D., P.E.-2-PEP
 McSwain, Albert E., P.E.-7-PEP
 McVay, Dwain E.-6-PEP
 Meade, Joseph O., P.E.-7-IND
 Meade, Stephen J., P.E.-7-None
 Meador, Don B., P.E.-1-IND
 Meares, James D.-2-PEP
 Meaux, David J.-4-None
 Meaux, Dwight J.-4-None
 Meaux, Edward, P.E.-5-IND
 Mediamolle, Wayne L., P.E.-7-IND
 Meeham, Thomas P.-7-None
 Meehan, Tommy-7-None
 Meek, Sharon-5-None
 Meers, Robert J., P.E.-7-PEP
 Meijer, Conrad F., P.E.-2-CON
 Mejia, Alba-7-None
 Melancon, James A., P.E.-7-PEP
 Melancon, Joseph L.-4-None
 Melancon, Stephen P., P.E.-3-IND
 Melancon, Wayne F.-4-GOV
 Melendez, Jose G.-7-CON
 Mellon, Michael G.-8-PEP
 Melton, John A., P.E.-2-CON
 Menge, Dannette M.-7-IND
 Merhi, Ismail N.-7-None
 Meriwether, Donald L., P.E.-7-IND
 Merrick, Max M., P.E.-1-CON
 Merritt, Paul G., P.E.-7-PEP
 Mertens, Michael F.-7-IND
 Mesh, Richard D.-5-IND
 Messer, Kenneth P.-2-IND
 Metrailler, William-2-IND
 Metz, Edward R., P.E.-2-PEP
 Metzger, Steven A., P.E.-2-PEP
 Meunier, Mark S.-3-CON
 Meyer, A. E., Jr., P.E.-1-PEP
 Meyer, Alvin F., Jr., P.E.-9-PEP

Meyer, Charles E., P.E.-7-PEP
 Meyer, Charles J., P.E.-2-GOV
 Meyer, J. B., Jr., P.E.-2-GOV
 Meyer, J., Jr., -7-IND
 Meyer, James P.E.-1-PEP
 Meyer, Richard C.-7-PEP
 Meyer, Richard T., P.E.-5-PEP
 Meyer, Vernon F., P.E.-5-PEP
 Meyers, Albert J., P.E.-7-None
 Meyers, Thomas G., P.E.-4-IND
 Mialaret, Gerard J.-7-IND
 Micale, Albert F., P.E.-2-CON
 Michaels, Richard D., P.E.-8-PEP
 Mickal, Larry E., P.E.-7-PEP
 Middleton, George W., P.E.-6-EDU
 Middleton, Michael E., P.E.-5-IND
 Midlam, Edward W., P.E.-5-PEP
 Miers, Paul L.-4-PEP
 Miles, James L., P.E.-8-GOV
 Milford, Floyd E., Jr., P.E.-3-PEP
 Millard, George E., Jr., P.E.-7-GOV
 Miller, Frank C., Jr., P.E.-5-CON
 Miller, G. W., P.E.-2-IND
 Miller, George A., P.E.-7-IND
 Miller, Gerald A.-6-PEP
 Miller, Glenn E., P.E.-4-PEP
 Miller, Herbert I., P.E.-7-PEP
 Miller, Jennifer M.-6-None
 Miller, Otis O., P.E.-2-PEP
 Miller, Percy H., P.E.-2-EDU
 Miller, Robert E., Jr., P.E.-4-PEP
 Miller, Thomas T., Jr., P.E.-7-IND
 Miller, W.J., P.E.-2-PEP
 Miller, William-6-PEP
 Miller, William H., P.E.-5-CON
 Millet, Percy R., Jr., -7-IND
 Mills, Frederick Z., P.E.-8-GOV
 Mims, Billy R.-7-None
 Minn, Howard S., P.E.-5-EDU
 Minor, Jack F., P.E.-7-IND
 Miremont, Lewis E., P.E.-2-PEP
 Mitchell, Thomas C., P.E.-2-CON
 Mixon, Claude C.-7-IND
 Moate, George D., P.E.-3-IND
 Modeer, Victor A., Jr.-9-PEP
 Moffett, Jack S.-1-IND
 Mogabgab, Paul N., P.E.-7-IND
 Mohar, Thomas H., P.E.-1-IND
 Mohr, James D., P.E.-8-PEP
 Mojgani, Parviz, P.E.-7-PEP
 Molaison, Henri, J., P.E.-7-PEP
 Molisani, John J., Jr.-7-None
 Moncla, Eldred E., P.E.-6-CON
 Monje, Carlos A., P.E.-7-PEP
 Monlezun, John K., P.E.-7-IND
 Monroe, J. C., P.E.-2-IND
 Monroe, W. C., P.E.-2-PEP
 Montagnet, Andre E., P.E.-4-CON
 Montealegre, Antonio P., P.E.-2-IND
 Monteiro, John D., P.E.-3-IND
 Montelepre, Lisa M.-7-None
 Montgomery, James N., P.E.-7-IND
 Montgomery, Joseph T., P.E.-7-PEP
 Moody, Alan G., P.E.-7-PEP
 Moody, Lamon L., Jr., P.E.-2-PEP

Moody, Robert R., P.E.-2-IND
 Mooney, Joseph R., P.E.-7-None
 Moore, Andrew M., P.E.-1-IND
 Moore, Clayton A.-9-None
 Moore, Danny R., P.E.-8-PEP
 Moore, J. Blake-7-None
 Moore, James H., Jr.-2-None
 Moore, John W., P.E.-6-PEP
 Moore, Kenneth W.-4-IND
 Moore, Norris J.-7-CON
 Moore, Patrick C.-1-PEP
 Moore, Robert W.-2-IND
 Morales, Fred, P.E.-6-EDU
 Morehiser, John E., Jr., P.E.-7-GOV
 Morehiser, Mervin B., P.E.-7-PEP
 Morgan, Joseph H.-5-IND
 Morgan, Karl L.-2-None
 Morgan, Keith A., P.E.-6-CON
 Morgan, Keith H., P.E.-7-None
 Morgan, Mark L., P.E.-2-IND
 Morgan, R. D., P.E.-2-GOV
 Moriarty, Kevin D.-7-IND
 Moring, William M., P.E.-9-IND
 Morovich, Anthony P., P.E.-7-PEP
 Morphy, Edward R., P.E.-7-PEP
 Morris, Dewitt L., P.E.-7-IND
 Morris, Gary L., P.E.-2-PEP
 Morrison, Barbara G.-7-CON
 Morrison, Clovis L., P.E.-2-PEP
 Morrison, Herbert E., P.E.-7-CON
 Morrisette, Stephen M.-2-IND
 Morrow, David C.-7-None
 Morse, Brenton T., Jr., P.E.-7-GOV
 Mortimer, Harold E., P.E.-9-IND
 Morvant, Charles M., P.E.-4-IND
 Moseley, John A.-3-IND
 Moseley, Thomas T., P.E.-4-IND
 Moses, Walter B., P.E.-7-PEP
 Moses, Warren G., P.E.-7-PEP
 Mott, Arthur A., P.E.-7-IND
 Mouhot, Ernest, Jr., P.E.-5-IND
 Mouhot, Wayen E.-5-IND
 Mourot, Phillip A., P.E.-2-PEP
 Moustafa, Saad E., P.E.-7-EDU
 Moutes, John G., P.E.-7-PEP
 Mouton, Rodney A., P.E.-7-IND
 Movassaghi, Kambiz, P.E.-4-EDU
 Moya, Benito P., P.E.-7-PEP
 Moyer, Maurice W., P.E.-2-IND
 Moynan, David, P.E.-7-IND
 Muffoletto, Walter P.-4-None
 Mulino, Lu M., P.E.-7-PEP
 Muller, R. F., Jr., P.E.-7-IND
 Muller, Richard F., Sr., P.E.-7-None
 Muller, Richard J., Jr., P.E.-7-PEP
 Muller, Ronald A., P.E.-2-IND
 Mundy, Scott A.-8-None
 Munley, C. Martin, Jr.-2-IND
 Murden, William R., Jr., P.E.-9-GOV
 Murphy, Landry, P.E.-7-None
 Murphy, Steve M.-7-None
 Murphy, Walter C., III, P.E.-7-IND
 Murrill, Paul W., P.E.-2-EDU
 Murry, Margaret-7-None
 Myers, Charles W.-3-CON

Myers, Gregory A.-7-IND
 Myers, Harold R., P.E.-7-IND
 Myers, John D.-5-CON

—N—

Nabavian, Firoozeh M.-9-PEP
 Nadler, J.A., Jr., P.E.-2-IND
 Naghavi, Babak-2-GOV
 Naghshineh, Koorosh K.-2-None
 Naini, Jamshid-7-None
 Nairne, Clayton L., P.E.-7-IND
 Naland, Carole A.-7-None
 Nall, Robert L.-7-None
 Naomi, Alfred C., P.E.-7-GOV
 Naomi, Dominique, P.E.-4-None
 Napolitano, Louis J., Jr., P.E.-7-PEP
 Naquin, Arthur J., P.E.-7-EDU
 Naquin, Gordon M., P.E.-8-PEP
 Nasca, Steve A., P.E.-2-GOV
 Navarre, Andrew A., P.E.-2-PEP
 Naylor, J.F., Jr., P.E.-2-PEP
 Naylor, Rodney A., P.E.-4-GOV
 Neesley, Alan R.-7-IND
 Neff, Robert A., P.E.-8-CON
 Neil, Alan J., P.E.-3-IND
 Nelson, Charles W., P.E.-7-PEP
 Nelson, Emile C.-3-GOV
 Nelson, Gordon E.-2-GOV
 Nelson, James D.-6-EDU
 Nelson, John O., Jr., P.E.-6-PEP
 Nelson, Kenneth H.-7-PEP
 Nelson, Waldemar S., P.E.-7-PEP
 Nelson, Walter C.-4-CON
 Nelson, Wyly D.-2-GOV
 Nesbit, Daniel, Jr., P.E.-2-PEP
 Nesbit, Susan E.-7-IND
 Nesbitt, J.T., P.E.-8-PEP
 Neuman, Wolfgang, P.E.-7-PEP
 Newell, Frank-7-PEP
 Newkirk, Alvin W.-6-GOV
 Newlin, Clifton R.-7-None
 Newton, Bruce J., P.E.-7-PEP
 Ng, Kung M., P.E.-9-PEP
 Nguyen, Binh V., P.E.-7-None
 Nguyen, Huyen T.-7-None
 Nguyen, Nga V., P.E.-7-CON
 Ngyen, Quyen V.-2-IND
 Nicewarner, Enoch F.-1-IND
 Nicoladis, Frank, P.E.-7-PEP
 Nicolini, James K.-7-IND
 Nielsen, Jens J., P.E.-7-PEP
 Nierenberg, Alan B.-7-IND
 Nimbalkar, Narendra R.-9-IND
 Nix, Charles L., P.E.-1-GOV
 Nobles, Howard E., P.E.-7-IND
 Nolan, Robert M.-2-IND
 Nolan, S.D., P.E.-5-IND
 Nolan, Willie C., P.E.-7-CON
 Nollkamper, Leslie M.-5-IND
 Nowlin, Herbert D., P.E.-2-IND
 Nowlin, Rickey L., P.E.-1-PEP
 Nugent, James M., P.E.-9-PEP
 Nunez, Russell J., P.E.-7-IND
 Nussbaum, Patricia A.-7-IND

—O—

O'Brien, Donald P., P.E.-4-None
 O'Cain, Keith-7-None
 O'Conner, John C., Jr., P.E.-7-PEP
 O'Conner, Ronald M.-7-IND
 O'Hare, Maurice W., P.E.-6-CON
 O'Neill, James A., Jr., P.E.-7-IND
 O'Quin, Thomas J., P.E.-7-IND
 O'Quinn, Frank M., P.E.-2-CON
 O'Rourke, Brian P.-5-IND
 O'Rourke, Don J., P.E.-4-PEP
 Obeare, George H., P.E.-9-PEP
 Ocasio, Agnes-7-None
 Odom, Harold L., P.E.-2-PEP
 Odom, Jesse C., P.E.-4-CON
 Odom, Leo M., P.E.-2-PEP
 Odom, Roy H., P.E.-2-PEP
 Offutt, Charles R.-9-None
 Ogden, Hnash N., P.E.-2-PEP
 Ogungbe, Femi O.-7-IND
 Ohlmeyer, Harvey L.-1-IND
 Ohlsen, James P., P.E.-7-PEP
 Oliver, D.L., III, P.E.-5-IND
 Oliver, Gerald D., P.E.-7-CON
 Olivier, Albert P., P.E.-7-PEP
 Olivier, C.L., III, P.E.-3-None
 Olivier, Donald G., Sr., P.E.-4-PEP
 Olivier, Michael J.-7-IND
 Olsen, Edward W., P.E.-7-None
 Olsen, Harold, P.E.-7-PEP
 Olsen, Olaf H., III, P.E.-7-PEP
 Olson, Brenda J.-2-None
 Olson, D.L., P.E.-9-IND
 Olson, Don L.-6-PEP
 Oppenheim, Mark D.-7-PEP
 Ordogne, Michael P.-3-PEP
 Orgeron, Glenn P., P.E.-9-EDU
 Orr, Virgil, P.E.-6-PEP
 Ory, Antoine I.-7-IND
 Ory, Francis J., P.E.-7-CON
 Ory, Stephen J.-7-CON
 Oster, William P., P.E.-7-None
 Osterthaler, Carl, P.E.-2-PEP
 Ottersen, Otter P., P.E.-8-GOV
 Oustalet, Kenneth M.-7-IND
 Overall, R.C., P.E.-2-CON
 Overall, Robert C., Jr., P.E.-2-PEP
 Owen, A.B.-1-IND
 Owen, David R.-7-PEP
 Owen, Eugene H., P.E.-2-PEP
 Owen, James D., P.E.-4-IND
 Owens, Robert W.-4-IND
 Owsley, Henry F., Jr.-7-PEP
 Oxner, Jim H.-8-PEP
 Ozenberger, Nelson J., P.E.-6-CON

—P—

Pabst, Charles A., Jr.-4-IND
 Pace, Benjamin S., P.E.-2-IND
 Pace, James C., P.E.-1-GOV
 Paggen, Marvin V., P.E.-5-IND
 Paige, Paul H.-2-IND
 Painter, Jack T., P.E.-6-EDU

Paley, Robert M., P.E.-9-CON
 Pan, Ching-Shan, P.E.-7-IND
 Pani, Mrutyunjay, P.E.-2-GOV
 Parenton, David L., P.E.-7-PEP
 Parker, Harold F.-7-IND
 Parker, Joseph E.-7-IND
 Parker, Milton E., P.E.-6-IND
 Parker, Thomas C., P.E.-5-IND
 Parker, Webber-5-PEP
 Parks, Gary P., P.E.-2-IND
 Parks, Ronald C.-3-IND
 Parlange, Brandon G., P.E.-2-PEP
 Pate, Robert L., P.E.-4-PEP
 Patel, Madhusudan C., P.E.-2-PEP
 Patel, Naresh D.-7-GOV
 Patelunas, Gerard M., P.E.-7-PEP
 Patin, Daryl B., P.E.-2-IND
 Patin, Michael-4-None
 Patout, Jules G., P.E.-4-IND
 Patterson, Curtis G., P.E.-2-GOV
 Patterson, Floyd T., Jr.-6-CON
 Patterson, Joe T., P.E.-9-GOV
 Paul, Ronnie W., P.E.-1-IND
 Pavia, Edgar H., P.E.-7-PEP
 Payer, William J., P.E.-7-CON
 Payment, Thomas L. P.E.-2-GOV
 Payton, Dudley J., P.E.-2-IND
 Peairs, Robert I., P.E.-2-IND
 Peak, Rowland H., Jr., P.E.-7-PEP
 Peak, T. Ellis, Jr.-2-IND
 Peaker, Ken W.-6-PEP
 Pearson, James M., P.E.-7-CON
 Pech, James A.-5-IND
 Peck, James L., Jr., P.E.-8-IND
 Peckham, Paul A., P.E.-7-GOV
 Peddada, Anandarao V., P.E.-1-PEP
 Pellerin, N.L., P.E.-7-IND
 Peltz, Karl W., P.E.-5-IND
 Penick, Rawley M., III, P.E.-7-IND
 Penland, James A., P.E.-2-PEP
 Pennison, Garland P.-1-PEP
 Penny, Robert C., P.E.-4-PEP
 Pepper, Jerome, P.E.-7-PEP
 Percy, Robert R.-2-IND
 Perdue, Walter B.-7-CON
 Pereira, Ricardo P.-4-CON
 Perez, Fidel I., P.E.-7-CON
 Perrault, A. J., P.E.-2-PEP
 Perret, Kenneth A., P.E.-2-GOV
 Perrilliat, Claiborne, P.E.-7-None
 Perrin, Felicien, P.E.-7-PEP
 Perrin, Larry A., P.E.-7-IND
 Perrin, Roy A., Jr., P.E.-7-IND
 Perrin, Shepard F., Jr., P.E.-2-GOV
 Perritt, Quentin F., P.E.-1-None
 Persac, Robert J., Jr.-9-CON
 Pertuit, Donald J., P.E.-3-CON
 Petermann, Thomas E., P.E.-3-CON
 Peterson, Otis E., Jr., P.E.-1-PEP
 Peterson, Wayne R., P.E.-7-IND
 Pfeffer, Henry W., Jr.-7-IND
 Pfeffer, John L., P.E.-7-PEP
 Pfefferle, Urban J., P.E.-7-IND
 Phan, Tang D., P.E.-7-GOV
 Pharr, G.O., P.E.-4-IND

Phebus, Raymond L., P.E.-2-CON
 Phillips, Charles J., P.E.-2-PEP
 Phillips, Richard E., P.E.-2-IND
 Phillips, William C.-5-IND
 Phillpott, Robert W., P.E.-7-PEP
 Piazza, John L., II, P.E.-9-CON
 Picciola, Larry J., P.E.-3-PEP
 Picciola, Marco, J., P.E.-3-PEP
 Pickels, John C., P.E.-1-PEP
 Pickens, Patrick R., P.E.-2-None
 Pickering, George D., P.E.-6-CON
 Pierce, David J.-4-IND
 Pierce, Ronald B.-2-PEP
 Pierce, Stephen M.-9-EDU
 Pierson, Rex E., Jr., P.E.-7-PEP
 Pietranski, John F.-6-IND
 Pike, Ralph W., P.E.-2-EDU
 Pilie, Joseph M., Jr., P.E.-7-CON
 Pillow, Jack L., P.E.-2-IND
 Pillow, Raymond E., P.E.-2-IND
 Pinner, Charleen J.-7-CON
 Pino, David W., P.E.-2-PEP
 Piper, Lloyd L., II, P.E.-9-CON
 Pistorius, Merlin A., P.E.-6-GOV
 Pittman, James-7-None
 Pittman, John C., P.E.-7-GOV
 Pittman, Thomas E., P.E.-2-CON
 Place, Morris, C., Jr., P.E.-7-IND
 Plaisance, Paul J., Jr., P.E.-9-GOV
 Planchet, Robert J., P.E.-7-PEP
 Platter, Harry W., P.E.-7-IND
 Plauche, Walter F., P.E.-7-PEP
 Poche, James M., P.E.-4-PEP
 Poche, Robert P.-4-IND
 Pohl, Heidi-7-None
 Polansky, John, Jr.-5-GOV
 Polito, Ray A., P.E.-2-CON
 Pollak, Douglas A.-4-IND
 Pollock, Charles E., P.E.-9-PEP
 Pomes, Richard V.-1-IND
 Pominski, Joseph, P.E.-7-GOV
 Ponceti, Timothy-7-None
 Ponder, Russell J., P.E.-7-PEP
 Pontiff, Darrell J.-4-PEP
 Pool, Wylmer C., P.E.-7-None
 Poole, Ronald G., P.E.-8-IND
 Poole, Thomas P.-2-PEP
 Poole, Wiley D., P.E.-2-EDU
 Poon, Power, P.E.-2-IND
 Pope, W. David, III-3-IND
 Popoff, Dieter, E., P.E.-7-IND
 Popowich, Clyde V., P.E.-9-CON
 Porter, James C., P.E.-2-GOV
 Porter, John P., P.E.-7-None
 Portie, Troy G., P.E.-5-CON
 Potin, Prosper L., P.E.-7-IND
 Potin, Suzette E.-4-IND
 Potter, W. C., P.E.-9-GOV
 Poulan, Henry T., P.E.-6-PEP
 Pounds, Truman E., P.E.-2-None
 Pourciau, Herby R., Jr., P.E.-3-CON
 Povinelli, Theodore J., P.E.-8-IND
 Powell, James A.-5-CON
 Powell, Roy R.-7-CON
 Power, Kevin-7-None

Power, Timothy M.-7-None
 Prejean, James E.-1-IND
 Preslan, William L., P.E.-9-IND
 Pressburg, Bernard S., P.E.-2-EDU
 Pressley, Charles W., Jr., P.E.-6-CON
 Preston, Kenneth, P.E.-1-CON
 Prestridge, Thomas D., Jr.,
 P.E.-1-GOV
 Prewitt, Charles E., P.E.-7-PEP
 Price, Bobby E., P.E.-6-EDU
 Price, Jerome L.-2-IND
 Priez, Lance J.-7-IND
 Primeaux, Richard J.-4-PEP
 Primeaux, Richard M., P.E.-1-CON
 Prisock, Roy L., P.E.-2-IND
 Prochaska, Billy R., P.E.-2-PEP
 Prossner, Kurt M., P.E.-3-CON
 Provenza, Vincent C., P.E.-7-PEP
 Pruitt, E. A.-7-CON
 Prunty, Thomas O., P.E.-7-IND
 Prutz, Stan J.-2-IND
 Pugh, David K.-1-PEP
 Pugsley, Charles S., Jr.-2-None
 Pullins, Gary W.-7-IND
 Pumilia, Stephen M., P.E.-7-PEP
 Purdum, Ward C., P.E.-7-None
 Purgatorio, Bert R., Jr., P.E.-9-IND
 Purtle, Homer, Jr., P.E.-8-PEP
 Pylant, George R.-6-None

—Q—

Quin, Frank W., Jr., P.E.-8-IND
 Quinn, Gus G., P.E.-5-PEP
 Quirk, P. R., P.E.-7-PEP
 Quitzau, Robert-7-IND
 Qualls, James R.-8-None

—R—

Rabalais, Joseph T.-5-IND
 Raborn, Karen C.-5-IND
 Raburn, Forrest N., P.E.-8-PEP
 Ragan, Bryant-7-None
 Raggio, Cecil D., P.E.-1-PEP
 Ragland, James A., P.E.-2-PEP
 Rainbolt, Terry L., P.E.-6-PEP
 Rainey, Stephen G.-4-GOV
 Ramirez, Adolfo, Jr., P.E.-1-GOV
 Ramon, Leonard C., Jr., P.E.-7-IND
 Ramsey, Ambrose K. Jr., P.E.-2-EDU
 Rand, Charles L., Jr., P.E.-6-PEP
 Rand, Horace W.-1-IND
 Randall, James B.-9-GOV
 Randels, Col. Dale K.P.E. USA
 Ret.-7-CON
 Randol, Paul E., P.E.-1-IND
 Randolph, David C., P.E.-9-IND
 Randolph, Thomas M., P.E.-2-None
 Ranna, Donald T., P.E.-7-IND
 Ratcliff, A.B., Jr., P.E.-2-GOV
 Ratcliff, Lynn, J., P.E.-9-PEP
 Ray, Asa M., Jr., P.E.-6-PEP
 Rayner, James F., P.E.-1-PEP
 Rea, Dalton G., Jr., P.E.-2-CON
 Rea, Danny J.-9-IND

Read, Van T., P.E.-6-IND
 Reaux, Alfred L., P.E.-4-PEP
 Reaux, Gerald G., P.E.-4-PEP
 Rector, James W., P.E.-2-IND
 Reddy, Prat P., P.E.-7-GOV
 Redovnikovich, Anthony P.,
 P.E.-7-GOV
 Reech, George K., P.E.-2-IND
 Reed, C. E., P.E.-7-IND
 Reed, Marion B., P.E.-2-EDU
 Reed, Michael D.-9-IND
 Reed, Robert N., P.E.-2-IND
 Reeh, Pierre C., P.E.-7-GOV
 Reeves, James W., P.E.-4-EDU
 Reeves, John B., P.E.-4-IND
 Reichley, Dale S., P.E.-5-IND
 Reine, Joseph A., Jr., P.E.-7-IND
 Reiners, Stephen J., -4-IND
 Reiser, Benjamin W., P.E.-9-IND
 Reneau, George H., P.E.-4-PEP
 Rengel, Michael J., P.E.-9-PEP
 Renshaw, David A., P.E.-8-IND
 Rentrop, Billy R., P.E.-5-IND
 Rentrop, David R.-5-IND
 Reuter, James V., III, P.E.-7-IND
 Reynaud, Larry F., P.E.-9-IND
 Reynaud, Richard B., P.E.-7-IND
 Rhines, Calvin J., P.E.-7-IND
 Ricca, Donald L.-7-IND
 Richard, Charles B., P.E.-7-None
 Richard, Dan G., P.E.-4-PEP
 Richard, David C.-4-IND
 Richard, Donald L., P.E.-4-PEP
 Richard, Donner A.-7-PEP
 Richard, Joe G., Jr., P.E.-2-PEP
 Richard, John D.-2-IND
 Richard, Larry J.-7-IND
 Richard, Sylvan J., P.E.-4-IND
 Richards, Edward C., Jr., P.E.-2-PEP
 Richardson, Donald F., P.E.-8-CON
 Richardson, Edward K., P.E.-7-IND
 Richardson, Harry D., P.E.-2-EDU
 Richardson, Robert L., P.E.-2-PEP
 Richardson, Roger W., P.E.-2-EDU
 Richardson, W.P., P.E.-7-IND
 Richarme, Michael L.-7-PEP
 Richmond, Robert P., P.E.-2-IND
 Richoux, Glenn J.-7-PEP
 Ricketts, Grantley B., P.E.-9-None
 Riddle, Lindsey G., P.E.-7-IND
 Rieder, Paul T., III, P.E.-7-IND
 Rigby, Peter N.-4-IND
 Rike, James L., P.E.-7-PEP
 Riley, Tyrone A., P.E.-6-PEP
 Rimkus, Robert E., P.E.-9-CON
 Riorda, Joseph S.-7-IND
 Ripple, Barry E., P.E.-7-PEP
 Risley, M. Cary-6-IND
 Ristig, Kyle G.-8-IND
 Ritchey, Scott-7-None
 Ritter, Bryan D., P.E.-6-PEP
 Ritter, David L., P.E.-2-IND
 Ritter, Ervin L., P. E.-4-PEP
 Ritter, Glen J.-4-IND
 Ritter, John E., P.E.-2-IND

Rivera, Edgar F.-4-IND
 Rivera, Fernando-7-None
 Rivera-Cianchini, Carlos-3-CON
 Roach, Calvin J., P.E.-4-IND
 Roach, Joe E., P.E.-8-PEP
 Roach, John W., Jr., P.E.-7-PEP
 Roark, Kenneth J., P.E.-2-PEP
 Robard, Charles H.-9-IND
 Robards, Bob N., P.E.-2-PEP
 Robb, Kenneth A., P.E.-9-IND
 Robbins, George P.-7-None
 Robbins, Jackie, P.E.-6-EDU
 Robbins, John S., P.E.-4-IND
 Robert, Douglas B., P.E.-7-GOV
 Robert, Richard C., P.E.-2-PEP
 Roberts, Bernard A.-2-IND
 Roberts, Claude M., P.E.-8-IND
 Roberts, Estill G., Jr., P.E.-2-None
 Roberts, George S., P.E.-2-IND
 Roberts, John T., P.E.-2-IND
 Roberts, Ronald E., P.E.-7-IND
 Roberts, Rustin-7-PEP
 Robertson, Bruce L., P.E.-8-IND
 Robertson, Charles R., P.E.-1-IND
 Robertson, Richard B., P.E.-2-PEP
 Robertson, William C., P.E.-8-IND
 Robichaux, Carl J.-2-PEP
 Robichaux, Nolan M., Jr., P.E.-5-CON
 Robichaux, Tilden J., Jr., P.E.-8-CON
 Robicheaux, Russell J., P.E.-7-IND
 Robins, Donald H.-5-IND
 Robinson, Ernest T., Jr., P.E.-9-IND
 Robinson, Franklin P., P.E.-7-IND
 Robison, J.T., P.E.-1-IND
 Rodi, Ronald J.-2-PEP
 Rodriguez, A. R., P.E.-7-None
 Rodriguez, Terry L., P.E.-7-GOV
 Roebke, Gary E.-9-IND
 Roemer, James M.-7-CON
 Rogas, Peter N.-2-PEP
 Rogers, Marc J., P.E.-3-PEP
 Rogers, R. Bradford-7-PEP
 Roggenkamp, Wayne, P.E.-8-PEP
 Rogillio, Don R.-2-IND
 Rogillio, Donald R., P.E.-9-IND
 Roland, W. D., Jr., P.E.-1-PEP
 Romeo, Ronald J., P.E.-7-PEP
 Romero, David A.-7-None
 Romero, Earl M., P.E.-4-IND
 Ronquillo, Raymond M., P.E.-7-CON
 Roque, Manuel A.-4-EDU
 Rose, Francis E., P.E.-7-PEP
 Rose, Laston J.-6-CON
 Rose, William L., Jr., P.E.-7-CON
 Roseboom, Kenneth W.-4-IND
 Rosenbohm, Louis J., Jr., P.E.-7-PEP
 Ross, Richard H., P.E.-4-CON
 Ross, William J., P.E.-5-IND
 Rosteet, Edgar M., P.E.-5-PEP
 Roth, C.J.-7-None
 Roth, Mansfield A.-7-PEP
 Roth, Robert P., Jr., P.E.-7-GOV
 Roth, Tommy M.-4-None
 Rottmann, Paul O., P.E.-8-PEP
 Rouquette, Robert E.-7-PEP

Rousseau, Larry J., P.E.-7-GOV
 Roussel, Herbert J., III-4-IND
 Roussel, Herbert J., Jr., P.E.-7-PEP
 Roussel, Perry J., Jr., 7-IND
 Roussel, F.E., P.E.-3-IND
 Rowan, Edwin C., P.E.-9-IND
 Rowland, Martin A.-7-GOV
 Roy, Francis C., P.E.-5-IND
 Roy, James F., P.E.-7-GOV
 Roy, Joseph V., P.E.-2-IND
 Roy, Kenneth J., P.E.-1-GOV
 Rucker, Glenn D., P.E.-2-IND
 Ruckstuhl, Bernard L., P.E.-2-PEP
 Ruckstuhl, C. W., Jr., P.E.-7-GOV
 Ruffin, Thomas F., P.E.-8-None
 Ruppert, Melissa A.-5-IND
 Rusch, John H., Jr.-7-None
 Rushing, Donald R., P.E.-2-IND
 Rushing, Hollis B.-2-CON
 Rushing, William, Jr., 7-PEP
 Russ, William H.-7-IND
 Russell, Richard F., P.E.-7-IND
 Russo, Edwin P., P.E.-7-EDU
 Rutledge, Joseph W., P.E.-6-IND

—S—

Sabrier, Joseph J., III-7-IND
 Sabrier, Joseph J., Jr., P.E.-7-PEP
 Sadow, Ronald D., P.E.-6-PEP
 Saizan, Richard P., P.E.-7-PEP
 Salazar, Filomeno B.-2-IND
 Sample, Frank C., P.E.-6-PEP
 Sanborn, Nathan G.-7-PEP
 Sandefur, Daniel D., P.E.-1-PEP
 Sanders, Herbert C., P.E.-7-IND
 Sanders, Randal D.-2-PEP
 Sartori, Michael P., P.E.-6-CON
 Saunderson, George F., P.E.-9-IND
 Savoie, Clarence J., P.E.-3-PEP
 Savoy, Donald E.-5-IND
 Savoy, Rachel J., P.E.-4-IND
 Scalfano, David B., P.E.-7-PEP
 Scallan, David J.-1-IND
 Scallan, Donald A., Jr., P.E.-5-PEP
 Scarborough, N. D., P.E.-1-GOV
 Schaeffer, Dale S.-7-None
 Schaeffer, Herbert A., III, P.E.-7-CON
 Scharlin, Russell J., P.E.-2-PEP
 Scheffler, Mark J.-5-IND
 Scheinuk, Jack, P.E.-7-PEP
 Scheirman, Gerry-7-None
 Schell, Donald B., P.E.-7-PEP
 Schellhase, Walter R.-7-CON
 Schexnayder, Clifford J., P.E.-6-EDU
 Schexnayder, Isby L., Jr., P.E.-4-PEP
 Schexnayder, Phil A.-3-PEP
 Schexnayder, Ralph F., P.E.-8-IND
 Schexnayder, Thomas B., P.E.-2-IND
 Schilling, Louis C., P.E.-2-IND
 Schindler, John A.-7-PEP
 Schluter, Hermann, Jr., P.E.-2-IND
 Schluter, John H., P.E.-7-GOV
 Schmaltz, Stephen M.-7-IND
 Schmidt, James R., P.E.-8-GOV
 Schmidt, Norbert E., P.E.-7-IND

Schmidt, Ralph V., P.E.-2-IND
 Schmieder, Don R., P.E.-2-PEP
 Schmit, Paul A., P.E.-7-IND
 Schnatz, Thomas W., P.E.-7-IND
 Schneider, Edward L., P.E.-7-PEP
 Schneider, R. H., P.E.-2-PEP
 Schober, Louis J.-3-PEP
 Schoennagel, Chris-7-GOV
 Scholtz, Ralph E.-7-None
 Schooley, Theodore H., P.E.-7-PEP
 Schorr, Henry R., P.E.-7-GOV
 Schott, Henry K., P.E.-2-GOV
 Schott, Kevin-7-None
 Schroeder, Fred L., Jr.-9-CON
 Schroeder, Gerald L., Jr., P.E.-7-PEP
 Schubert, Edward J., P.E.-7-CON
 Schubert, Roy W., P.E.-6-EDU
 Schulz, Michael A., P.E.-2-CON
 Schumann, Ronald L., Jr., P.E.-7-PEP
 Schwarz, Arnold-9-IND
 Schwarz, Walter J., P.E.-7-CON
 Schweitzer, Otto R., P.E.-4-EDU
 Scianna, Frank J.-7-PEP
 Scoggins, Robert M., P.E.-8-PEP
 Scopetta, John N. P.E.-9-IND
 Scott, Harold E., P.E.-8-CON
 Scott, John J. P.E.-8-IND
 Seago, R. M., P.E.-7-None
 Seals, Roger K., P.E.-2-EDU
 Sealy, Richard C., P.E.-4-IND
 Seay, Donald E., P.E.-1-IND
 Sedlin, Leonard H., P.E.-2-IND
 See, Richard M., P.E.-5-IND
 Seemann, Deborah A.-7-IND
 Segall, Ralph S., P.E.-8-CON
 Seidel, Jerald P.-8-IND
 Seidelman, Ray G., Jr.-4-GOV
 Seifert, Miles C.-2-PEP
 Seiferth, Solis-7-None
 Seiler, Sidney L., P.E.-7-IND
 Seither, Michael S.-7-IND
 Sellers, Caliphor J., P.E.-1-IND
 Sellers, Charles, P.E.-5-IND
 Sellers, Eugene M., P.E.-4-PEP
 Semien, Wilton J., Jr.-1-IND
 Sepeda, Adrian L., P.E.-2-IND
 Serignan, Andre-7-None
 Sessions, J.P., P.E.-1-PEP
 Sessums, Roy T. P.E.-7-IND
 Seto, Yjo Y., P.E.-7-EDU
 Setze, Thomas H., P.E.-2-GOV
 Severance, Charles E., P.E.-2-EDU
 Sewell, Jerry T.-7-PEP
 Sewell, John N.-3-CON
 Seybold, Jack A., Jr., P.E.-4-IND
 Shackford, Lester B., Jr.-7-IND
 Shaffer, Francis C., P.E.-2-PEP
 Shah, Jitendra C.-7-IND
 Shah, Shashikant C., P.E.-2-GOV
 Shaheen, Glenn G.-2-PEP
 Shamburger, Larry-7-None
 Shaw, Kearney B., P.E.-7-PEP
 Shaw, Richard M., P.E.-7-GOV
 Shaw, William G.-5-CON
 Shearer, Edward L., P.E.-7-IND

Shearon, G.B., P.E.-2-IND
 Shehane, Roy C., P.E.-2-PEP
 Shermer, W.T., P.E.-5-IND
 Sherrill, Michael A.-2-PEP
 Shiflett, Wendell P., P.E.-2-CON
 Shilstone, Cecil M., P.E.-7-PEP
 Shnaider, Naum I.-7-PEP
 Shoemaker, Joseph M., Jr., P.E.-7-CON
 Shoriak, James A.-2-CON
 Shoudy, Charles A., P.E.-6-PEP
 Shread, Richard-2-PEP
 Shriver, Larry E.-1-PEP
 Shubert, Harry P.E.-9-EDU
 Sicard, Harold L. P.E.-2-CON
 Sierra, Austin V., Jr., P.E.-5-IND
 Siewert, Jeffrey J., P.E.-7-PEP
 Silver, H. Edward, P.E.-2-IND
 Silver, Walter H., P.E.-2-IND
 Simmons, Charles L.-4-IND
 Simmons, Emmitt L., P.E.-2-IND
 Simmons, James E.-2-IND
 Simmons, Jesse A., Jr., P.E.-1-GOV
 Simmons, Keith-7-None
 Simmons, Malcolm E., P.E.-1-GOV
 Simmons, Robert L., P.E.-2-IND
 Simmons, Roger L.-7-IND
 Simmons, Russell B.-9-IND
 Simms, Joseph T., Jr., P.E.-1-IND
 Simon, Robert L., Jr., P.E.-3-IND
 Simoneaux, Jules E., P.E.-7-IND
 Simoneaux, Kirk J.-2-PEP
 Simons, Alfred M.-7-None
 Simpson, Calvin L.-2-PEP
 Simpson, David R.-5-IND
 Simpson, John C., P.E.-1-None
 Simpson, Seth B., Jr., P.E.-7-PEP
 Sims, Harvey J., Jr., P.E.-5-IND
 Sims, James J.-5-IND
 Sims, R. Morris-7-None
 Sincavage, Bernard J., P.E.-7-CON
 Sincox, Edwin C., P.E.-8-IND
 Singh, Ramchandra S., P.E.-5-EDU
 Singleton, John M.-5-PEP
 Singleton, R. M., Jr., P.E.-7-IND
 Siquefield, Melvin M.-2-IND
 Skidmore, Robert J., P.E.-2-IND
 Skinner, Joseph C., Jr., P.E.-7-IND
 Skipper, Donna G.-6-PEP
 Sledge, Guy W., P.E.-2-PEP
 Sledge, James R.-9-GOV
 Sloan, Charles R., P.E.-9-IND
 Sloss, Raymond, P.E.-2-GOV
 Smallwood, Norman J.-9-IND
 Smart, Foch-7-None
 Smith, Alfred E., P.E.-2-PEP
 Smith B.-8-IND
 Smith, Clinton L., P.E.-8-IND
 Smith, Columbus L., Jr., P.E.-8-GOV
 Smith, Daniel M., P.E.-1-GOV
 Smith, Francis A., Jr., P.E.-7-CON
 Smith, Frank G., P.E.-7-IND
 Smith, Glendon L.-5-IND
 Smith, Gregory C.-7-PEP
 Smith, H.R., P.E.-5-IND
 Smith, J. Jerry, P.E.-7-CON

Smith, James B., P.E.-1-PEP
 Smith, James M., P.E.-6-IND
 Smith, Jerry R., P.E.-4-CON
 Smith, John H.-3-CON
 Smith, Larry G., P.E.-4-CON
 Smith, Lonnie O.-6-IND
 Smith, Michael I., P.E.-8-PEP
 Smith, Norma J.-7-None
 Smith, Peter M.-7-PEP
 Smith, R.E.-1-GOV
 Smith, Robert C.-2-IND
 Smith, Robert R., P.E.-7-IND
 Smith, Ronald E.-8-PEP
 Smith, Sharon D.-5-PEP
 Smith, Spencer G., P.E.-7-PEP
 Smith, Steven L., P.E.-7-IND
 Smith, Wallace C., P.E.-1-PEP
 Smith, Wayne R., P.E.-3-CON
 Smith, William C., P.E.-3-PEP
 Smyth, Joseph S.-9-GOV
 Snow, Clifton A., Jr.-7-PEP
 Snow, Richard K.-9-CON
 Snow, William E., Jr., P.E.-2-None
 Snyder, Gregory J.-2-IND
 Snyder, Harold J., P.E.-7-PEP
 Snyder, Kay B.-4-PEP
 Snyder, M.P., P.E.-8-PEP
 Snyder, Thomas A., P.E.-2-CON
 Snyder, William F., P.E.-2-PEP
 Soileau, Cecil W., P.E.-7-GOV
 Soliman, Rafik A., P.E.-9-None
 Sommer, Scott W.-5-IND
 Songe, David J., Jr., P.E.-7-IND
 Songy, Michael B.-4-PEP
 Sonnier, Irvin L., P.E.-1-GOV
 Soong, Hsiang K., P.E.-7-IND
 Sorensen, W.C., P.E.-8-CON
 Sosa, Luis R., P.E.-7-PEP
 Spako, David W.-7-IND
 Spangler, Thomas C.-2-PEP
 Spannagel, Johnny A., P.E.-9-PEP
 Sparrow, Patrick R.-6-PEP
 Speeg, Davis E.-7-IND
 Speeg, Raymond D., P.E.-7-CON
 Speer, Warrington B., P.E.-7-PEP
 Sperier, Wesley J., P.E.-7-GOV
 Spikes, Richard C.-4-PEP
 Spinks, Lee N., P.E.-4-PEP
 Spivey, James W., P.E.-6-IND
 Spivey, William Z., P.E.-6-EDU
 Spokes, John J., Jr.-7-IND
 Sprawls, Desmond C., P.E.-8-PEP
 Sprow, Donald L., P.E.-7-CON
 St. Amant, Percy P., Jr., P.E.-7-PEP
 St. Cyr, William W., II, P.E.-7-PEP
 St. John, J. L., P.E.-7-IND
 St. Raymond, John P., P.E.-7-PEP
 St. Romain, Charles R., P.E.-2-PEP
 Stabinsky, Abraham L., P.E.-7-IND
 Stagg, Charles H., P.E.-5-GOV
 Stagg, Truman C., P.E.-5-PEP
 Staley, Curt M., P.E.-8-PEP
 Stancliff, Glenn W., P.E.-6-IND
 Stanczak, James A.-3-IND
 Standke, William F., P.E.-8-PEP
 Starke, George O., P.E.-2-IND
 Statom, John C., P.E.-8-IND
 Staton, Wayne E., P.E.-1-IND
 Staunton, Babette B.-7-None
 Stayer, David, P.E.-9-GOV
 Steed, Douglas A.-6-PEP
 Steele, Maitland A., P.E.-7-IND
 Steil, Denise M.-7-None
 Steimle, Stephen E., P.E.-7-EDU
 Stelly, Claude L.-4-PEP
 Stelly, Dewey F.-4-IND
 Stelly, Robert J., P.E.-2-IND
 Stephens, Maynard M., P.E.-7-PEP
 Stephenson, Eugene A., P.E.-6-CON
 Stephenson, John W., P.E.-5-IND
 Stephenson, Mark A., P.E.-4-IND
 Stevens, Ashby B., P.E.-1-IND
 Stevens, James W., P.E.-5-IND
 Stevens, Mack Y.-7-IND
 Stevenson, Edward E., P.E.-8-IND
 Stevenson, George F., P.E.-2-GOV
 Stewart, Bingham C.-7-IND
 Stewart, Easton, P.E.-2-PEP
 Stewart, James E., P.E.-7-IND
 Stewart, Kenneth V., Jr., P.E.-1-GOV
 Stewart, Wade H.-7-IND
 Stimac, John L., P.E.-6-IND
 Stinchcomb, Harry W., P.E.-7-GOV
 Stinson, John H. III, P.E.-2-GOV
 Stipe, Dennis R., P.E.-2-EDU
 Stock, Gilbert G.-7-None
 Stoddard, Robert P., P.E.-7-PEP
 Stokes, Charles W., P.E.-5-IND
 Stokes, Ron E., P.E.-8-CON
 Stokes, Thomas A., P.E.-7-PEP
 Stone, John C., III, P.E.-7-PEP
 Stone, John S., P.E.-6-IND
 Stone, Thomas S., P.E.-9-IND
 Stoops, Robert S., P.E.-7-IND
 Stopkey, Waldemar D., P.E.-7-CON
 Storer, Hubert E.-8-IND
 Storms, R.E., P.E.-6-PEP
 Stouse, Pierre J., Jr., P.E.-7-IND
 Stout, Alan-2-PEP
 Stoute, Gayle J., P.E.-4-CON
 Straley, Dewey E.-7-IND
 Stream, Harold H., Jr., P.E.-7-IND
 Streng, Irvin T., Jr., P.E.-4-PEP
 Strickland, Thomas-1-PEP
 Stritzinger, Frank B.-7-CON
 Stromer, John D.-5-IND
 Stuart, Frank M., P.E.-7-PEP
 Stubbs, Charles F., P.E.-6-PEP
 Stucker, George R., Jr., P.E.-2-PEP
 Stuckey, Joe W., P.E.-9-PEP
 Stutes, Philip J., P.E.-4-PEP
 Stutes, Shirley A., P.E.-4-IND
 Sullivan, Sam L., Jr., P.E.-7-EDU
 Summers, Winifred L., Jr., P.E.-2-IND
 Sumrall, Hollis K.-9-IND
 Sumrall, Michael L., P.E.-3-IND
 Sumrall, Mitchell B.-6-PEP
 Sumrall, William H., Jr.-4-IND
 Sundin, Theodore A., P.E.-9-IND
 Sundquist, Blair, P.E.-7-PEP

Sunseri, Fran L.-7-IND
 Suravitch, Anthony S.-1-IND
 Sussky, Mantz C., P.E.-2-IND
 Sustendal, Charles D.-7-IND
 Swan, George A., III, P.E.-2-IND
 Swayne, Robert J., Jr., P.E.-7-PEP
 Swilley, Johnny J., P.E.-3-PEP
 Swindler, Benny J., P.E.-2-CON
 Switzer, Albert, P.E.-2-PEP
 Sylvester, Robert B., P.E.-4-PEP
 Sylvester, Timothy E., P.E.-7-PEP
 Szabo, A.J., P.E.-4-PEP
 Szabo, John F., P.E.-2-PEP

-T-

Tablada, Julian F., P.E.-9-PEP
 Tabony, John H., Jr., P.E.-2-PEP
 Tacy, William C., Jr., P.E.-9-IND
 Taff, Cynthia D.-7-None
 Tahtouh, Nicolas F.-9-CON
 Talai, Tahere S.-7-None
 Talbot, Douglass S. II-3-PEP
 Talbot, Douglass, S., Jr.-4-PEP
 Talbot, Douglass S., P.E.-3-PEP
 Talley, Willis J., P.E.-4-PEP
 Talluto, Peter N., P.E.-7-PEP
 Tamporello, Glenn A.-4-IND
 Tanner, Donald V., Jr., P.E.-4-CON
 Tarajano, Jose R., P.E.-2-CON
 Tarbutton, James S., P.E.-6-EDU
 Tarver, Joseph A.-1-PEP
 Tassin, Keith-7-None
 Tassin, Magnus, A., Jr., P.E.-2-PEP
 Tassin, Rodney J.-1-IND
 Tate, Michael K., P.E.-4-EDU
 Tate, P. Timothy, P.E.-2-PEP
 Tate, Steven E., P.E.-4-PEP
 Tausch, Russell E., P.E.-7-PEP
 Taylor, Don W., P.E.-4-IND
 Taylor, E. E., P.E.-1-PEP
 Taylor, James E., Jr.-7-None
 Taylor, James M.-7-IND
 Taylor, Wendell S., Jr., P.E.-2-PEP
 Taylor, Willie T., Jr., P.E.-7-GOV
 Teferra, Wondem-4-CON
 Tejada, Victor E., P.E.-9-IND
 Temple, Ralph N.-6-IND
 Templet, Guy E., P.E.-2-PEP
 Tennison, George N., P.E.-7-PEP
 Terracian, Harold J.-3-PEP
 Terrill, Jack A., P.E.-8-CON
 Terrill, Jimmy L., P.E.-1-IND
 Terry, Bill P., P.E.-4-IND
 Terry, Samuel C., P.E.-2-IND
 Teske, Donald E., P.E.-7-IND
 Tessier, John B., P.E.-2-IND
 Thailing, Andrew G., P.E.-9-PEP
 Theis, A.R., P.E.-2-GOV
 Theriot, Alex, Jr., P.E.-2-PEP
 Theriot, Louis N., P.E.-7-CON
 Theriot, Lovonia J., P.E.-4-EDU
 Theriot, Timothy-7-PEP
 Thevenote, Wm. J., Jr., P.E.-1-IND
 Thibodeaux, Allen A.-3-IND

Thibodeaux, Burnell J., P.E.-7-GOV
 Thibodeaux, Clarence, P.E.-4-PEP
 Thibodeaux, Glenn P.-4-IND
 Thibodeaux, James R.-4-IND
 Thibodeaux, Kirk-4-None
 Thibodeaux, Stephen J.-3-CON
 Thibodeaux, Terrell B., P.E.-1-IND
 Thientawach, Pirach, P.E.-8-PEP
 Thigpen, Frank Y., P.E.-2-PEP
 Thigpen, J.J., P.E.-6-EDU
 Thistlethwaite, John R.-4-IND
 Thom, Hunter C.-2-PEP
 Thomas, Carl H., P.E.-2-EDU
 Thomas, Clement P., P.E.-7-PEP
 Thomas, Daniel L.-9-None
 Thomas, Irwin P., P.E.-4-IND
 Thomas, James S., P.E.-9-None
 Thomas, Joseph G.-5-PEP
 Thomas, K. J., P.E.-2-PEP
 Thomas, Michael D.-2-None
 Thomas, Philip E., Jr., P.E.-9-PEP
 Thomassee, Phillip, P.E.-4-PEP
 Thompson, Abijah W., P.E.-7-PEP
 Thompson, Dale C., P.E.-3-IND
 Thompson, Horace A., Jr., P.E.-7-PEP
 Thompson, Hugh A., P.E.-7-EDU
 Thompson, James B., Jr.-5-IND
 Thompson, Theodore H.-5-CON
 Thompson, Troy W., P.E.-3-CON
 Thompson, Troyce F.-5-IND
 Thoms, Robert L., P.E.-2-EDU
 Thornhill, A.L.-4-IND
 Thornton, Jesse-5-PEP
 Thrailkill, George M., P.E.-7-GOV
 Thrash, Frank, P.E.-6-PEP
 Thurmon, William C., P.E.-8-IND
 Thurmond, Thomas R.-7-CON
 Tillay, Jack-7-IND
 Tiller, Frank-4-IND
 Tillstrom, Eric S.-8-GOV
 Timbre, Keith D.-2-PEP
 Tims, Eugene F., P.E.-2-EDU
 Tobelman, Charles D., III-7-GOV
 Tobey, Daniel J., P.E.-2-PEP
 Tobin, J. P., P.E.-7-GOV
 Tobler, Patrick A.-7-None
 Tocho, Lee F.-7-IND
 Todd, Garry L., P.E.-5-PEP
 Tolar, Vernon N.-3-PEP
 Tompkins, Victor H., P.E.-2-PEP
 Toney, Charles R.-2-IND
 Toney, Everette E., P.E.-5-IND
 Toney, Mark H., P.E.-2-CON
 Tonglet, John W.-7-PEP
 Tooley, Edmund H., P.E.-8-IND
 Toomer, Ronald J., P.E.-2-PEP
 Torbett, James W., III-8-IND
 Torres, Orlando S.-7-IND
 Totty, Charles R., P.E.-2-IND
 Touna, Lewis S., P.E.-7-IND
 Touns, Raymond J., P.E.-3-IND
 Touro, Freddie J., P.E.-7-IND
 Tousley, Donald E., P.E.-7-PEP
 Trahan, Edward V., Jr.-2-CON
 Trahan, Kerry J.-4-IND

Trahan, Louis-7-None
 Trahan, Peter L.-4-EDU
 Tramel, Tony R., P.E.-4-GOV
 Trammell, Grover J., P.E.-6-EDU
 Trappey, Randolph J., P.E.-4-IND
 Traylor, David-7-IND
 Treigle, Everett V., Jr.-7-PEP
 Treubig, John L.-6-None
 Treuil, Clifford L., Jr., P.E.-4-IND
 Trexler, David-7-IND
 Tribo, James G., P.E.-7-CON
 Trimble, Paul D.-1-PEP
 Trosclair, William H., Jr., P.E.-3-IND
 Trowbridge, Melinda A.-9-EDU
 Troyer, Andrew G., III-7-IND
 Trumps, Regis G., P.E.-7-IND
 Trygg, John E., P.E.-7-PEP
 Tsai, Mark W., P.E.-7-PEP
 Tschirn, Patrick F.-7-None
 Tubb, John B., P.E.-1-GOV
 Tucker, Roger W.-5-IND
 Tullis, Charles G., P.E.-9-IND
 Tumay, Mehmet T., P.E.-2-EDU
 Turner, Clyde, Jr., P.E.-2-GOV
 Turner, Humphreys T., P.E.-2-EDU
 Turner, Ronald V.-4-IND
 Turner, William O.-7-IND
 Turner, William T., P.E.-9-IND
 Turrentine, Charles E., P.E.-1-PEP
 Tuttle, Richard J.-8-GOV
 Tutzauer, Frank E., Jr., P.E.-7-IND
 Tycer, William A., P.E.-2-PEP
 Tyree, Ronald W., P.E.-9-GOV

—U—

Underwood, Michael P., P.E.-2-PEP
 Unser, Ronald E.-6-IND
 Usie, Ronald J.-2-IND
 Utter, Roger S., P.E.-7-CON

—V—

Vaccaro, Robert L., P.E.-7-PEP
 Valadie, Richard J.-7-IND
 Valentine, Massey B., P.E.-9-GOV
 Vanderbrook, Fred H., Jr., P.E.-7-PEP
 Vanhille, Herman A., P.E.-2-PEP
 Van De Graaf, Hugo B.-7-IND
 Van Natta, S. W. Jr.-9-IND
 Van Wootten, Richard A., P.E.-7-PEP
 Varnado, Kelly L., P.E.-9-CON
 Varrelman, Ferdinand K., P.E.-4-IND
 Varvaro, G. G., P.E.-3-EDU
 Vaughan, Robert W.-7-IND
 Vaughn, Lynwood, P.E.-2-EDU
 Veal, Lloyd J.-5-CON
 Venezia, Charles J., P.E.-7-PEP
 Venturella, Kevin-7-None
 Verlander, Walter J., P.E.-7-None
 Viator, James S.-5-IND
 Viator, Jeanne M.-5-IND
 Vicidomina, Frank-7-PEP
 Vicidomina, Vincent, P.E.-7-IND
 Vick, H. R., P.E.-7-GOV
 Vickburg, Carl N., P.E.-7-PEP

Vicknair, Earl M., P.E.-2-PEP
 Vicknair, Ernest A., Jr., P.E.-3-PEP
 Vicknair, Michael A., P.E.-9-IND
 Vidrine, Clyde G., P.E.-6-EDU
 Viener, David-7-None
 Vignes, Marshall K.-3-IND
 Villalon, Leonardo A., P.E.-7-PEP
 Villarrubia, David D.-7-IND
 Villere, Edward D., P.E.-7-CON
 Vincent, Claude, A., Jr., P.E.-5-IND
 Vincent, Donald A.-5-None
 Vincent, Gary R., P.E.-7-GOV
 Vincent, Robert S., P.E.-5-None
 Vincent, Rodney M., P.E.-5-IND
 Vincent, Walter C., P.E.-4-GOV
 Vivien, Charles L., Jr.-9-IND
 Vivien, Lucien E., P.E.-7-PEP
 Vliet, Daniel H., P.E.-7-EDU
 Voda, Kenneth L.-1-IND
 Vodrazka, Walter C., P.E.-4-EDU
 Voelkel, Christian M., P.E.-7-IND
 Voepel, Louis P., P.E.-9-IND
 Vogt, John F., Jr., P.E.-7-IND
 Vollman, George A., P.E.-1-PEP
 Vondenstein, Larry P.-4-CON
 Vosloh, Fred W., III, P.E.-2-PEP
 Vrooman, Douglas K., P.E.-7-IND

—W—

Waddle, Paul R., P.E.-8-PEP
 Wade, Baxter F., Jr., P.E.-3-GOV
 Wadhams, Robert S., P.E.-3-CON
 Wadsworth, Rick-7-None
 Waggenspack, Roy A., P.E.-2-PEP
 Wagner, Richard E., P.E.-9-GOV
 Waguespack, Eric D., P.E.-7-PEP
 Waguespack, Otis, J., P.E.-7-PEP
 Waidhas, Gustav, P.E.-7-IND
 Walia, Sukhdev S., P.E.-7-IND
 Walk, Frank H., P.E.-7-PEP
 Walker, John D., P.E.-2-PEP
 Walker, John E., P.E.-7-PEP
 Walker, Rufus E., P.E.-8-IND
 Walker, William B., P.E.-9-IND
 Wall, Charles W.-2-IND
 Wall, Earl E., P.E.-7-PEP
 Wall, Harold J., P.E.-5-IND
 Wall, Mark A.-7-None
 Wallace, Karl M., P.E.-6-None
 Wallace, Wayne P., P.E.-4-EDU
 Wallace, William C., P.E.-5-PEP
 Wallace, William J., Jr.-5-IND
 Wallander, Theodore F.-7-PEP
 Wallbillich, Stephen J., P.E.-7-None
 Walling, Carl H., Jr.-9-IND
 Wallis, J. G.-7-None
 Walsh, Benjamin F., P.E.-7-PEP
 Walsh, Daniel V., P.E.-5-CON
 Walsh, Mark T., P.E.-2-CON
 Walsh, Richard D., Jr., P.E.-1-IND
 Walsh, Stanley A.-2-IND
 Walters, Ronald L., P.E.-9-CON
 Walther, George B., Jr., P.E.-5-PEP
 Walther, Milton M., P.E.-7-GOV
 Walton, Albert G., P.E.-8-IND

Waltrip, Jack B., P.E.-2-None
 Wan, Theobald H.-7-PEP
 Wang, Chang, P.E.-7-CON
 Wang, Chang-Ann-7-IND
 Wang, Robert S., P.E.-4-EDU
 Wantland, John L., P.E.-9-IND
 Wardlaw, Earl W., Jr., P.E.-2-PEP
 Warner, Harry W., P.E.-7-PEP
 Warren, Francis, J., Jr., P.E.-7-IND
 Warren, James E., P.E.-7-IND
 Warren, James S., P.E.-7-IND
 Waters, John W., P.E.-7-CON
 Watkins, Alex F., P.E.-4-CON
 Watson, Chester C., P.E.-8-PEP
 Watson, Donald L., P.E.-9-IND
 Watson, George E., P.E.-6-PEP
 Watson, Perry V., Jr., P.E.-8-GOV.
 Watt, Frederick W., Jr.,-8-PEP
 Watts, Brenda-7-None
 Watts, Edward P., Jr.-7-GOV
 Watts, John B., P.E.-4-IND
 Waugaman, Charles J., P.E.-4-EDU
 Weatherly, Charles H., P.E.-7-PEP
 Weatherly, David C.,-7-PEP
 Webb, Alvin R.-5-IND
 Webb, Clifford G., P.E.-2-PEP
 Webb, George F., III-5-PEP
 Webb, George F., Jr., P.E.-5-PEP
 Webb, George W., P.E.-7-EDU
 Webb, James C., P.E.-2-GOV
 Webb, Jay, P.E.-7-PEP
 Weber, Eugene A., P.E.-3-IND
 Webre, D. J., Jr., P.E.-2-PEP
 Wedemeyer, B. A., P.E.-7-IND
 Wedemeyer, Gordon L., P.E.-5-GOV
 Weed, Charlie F., P.E.-9-CON
 Weekley, Roland S.-7-IND
 Wegener, Kevin R., P.E.-2-PEP
 Weidner, David E.-7-PEP
 Weiland, William C., P.E.-7-IND
 Weinstein, Allan M., P.E.-7-EDU
 Weissman, Alexander, P.E.-1-PEP
 Welborn, Larry E.-5-IND
 Wells, David T.-2-IND
 Wells, Jack E., Jr.-5-CON
 Wells, Larry R., P.E.-1-IND
 Wells, Thomas W., P.E.-7-PEP
 Welsch, E. J., P.E.-7-PEP
 Wendling, Joseph C., Jr., P.E.-7-CON
 Wenk, Lester E., P.E.-8-IND
 Wernicke, James C.-7-CON
 West, David A.-9-IND
 Westbrook, Van C.-6-GOV
 Westerchil, Charles R., P.E.-1-IND
 Westerman, Richard W., Jr.,
 P.E.-1-PEP
 Westgaard, Michael A.-4-IND
 Weston, C. Walker, Jr., P.E.-8-IND
 Westrom, Fred N., P.E.-6-PEP
 Wethern, C.A., Jr., P.E.-7-PEP
 Wetzel, David M.-2-EDU
 Wetzel, Rodney J.-4-None
 Whalen, Tim-7-GOV
 Wheat, Charles B., Jr., P.E.-2-PEP
 Wheeler, Billie G., P.E.-8-CON

Whitaker, Philip L., P.E.-5-PEP
 White, Clayton J.,-7-PEP
 White, Horace H.-1-IND
 White, Kohen E., P.E.-7-IND
 White, Robert W.-9-IND
 White, Srodney, Jr., P.E.-1-GOV
 White, Walter T., III-3-IND
 White, Warren N., P.E.-8-EDU
 White, William H., P.E.-7-PEP
 White, Wynn L., P.E.-1-PEP
 Whitehouse, Gerald D., P.E.-2-EDU
 Whitson, Kathy D.-7-IND
 Whittelsey, C. C., P.E.-6-PEP
 Wicks, Gerald F.-7-IND
 Wiese, John C., P.E.-2-PEP
 Wiewiorowski, Edward I., P.E.-7-IND
 Wiker, Fred E.-1-PEP
 Wilbert, Joseph F., P.E.-7-None
 Wilckens, James F.-8-CON
 Wilder, Samuel D., P.E.-7-GOV
 Wilder, Waren J.-2-EDU
 Wilfred, Jack M., P.E.-9-CON
 Wilkerson, Dan, P.E.-9-CON
 Wilkerson, John F., Jr.-8-PEP
 Wilkerson, William E., P.E.-9-GOV
 Wilkins, Bert, Jr.,-2-PEP
 Wilkins, James, Jr.-7-IND
 Willem, Mike B.-7-IND
 Willey, L. V., P.E.-2-GOV
 Williams, Aaron D., Jr., P.E.-6-None
 Williams, David E., Jr., P.E.-9-PEP
 Williams, David G.-5-IND
 Williams, David N.-3-None
 Williams, Douglass, J., P.E.-7-CON
 Williams, Edward G.-2-IND
 Williams, Edward L., P.E.-7-IND
 Williams, Gerald C., P.E.-2-CON
 Williams, James F., Jr., P.E.-5-EDU
 Williams, Joshua F.-7-IND
 Williams, Kenneth N., Sr.-1-IND
 Williams, Max L., P.E.-2-IND
 Williams, Nancy S.-7-CON
 Williams, R. L., P.E.-7-IND
 Williams, Raleigh J., P.E.-7-GOV
 Williams, Robert M., P.E.-7-PEP
 Williams, W. H.-7-PEP
 Williams, Walter L., P.E.-6-IND
 Williamson, Edward P., P.E.-7-EDU
 Williamson, Harold R., P.E.-2-PEP
 Williamson, Michael J., P.E.-7-PEP
 Williamson, S. R., P.E.-8-PEP
 Williamson, Wayne, E., P.E.-8-PEP
 Willis, Elward S., P.E.-6-CON
 Willis, Frank L., P.E.-1-PEP
 Wilson, Gordon B.-2-CON
 Wilson, Joe R., P.E.-6-EDU
 Wilson, John C., P.E.-8-PEP
 Wilson, Norman W.,-7-IND
 Wilson, Sean C.-2-IND
 Wilson, William E., P.E.-9-IND
 Wilson, William H., P.E.-9-GOV
 Wilson, William O.-7-None
 Wimberly, C. Ray-6-EDU
 Windham, Malcolm V., P.E.-2-GOV
 Wink, John D., P.E.-9-IND

Wink, Joseph C., Jr., P.E.-7-PEP
 Winterrowd, Kenneth W.-8-IND
 Wintz, Jbertin-2-GOV
 Wintz, William A., Jr., P.E.-2-EDU
 Wise, Charles C.-1-PEP
 Wise, John J., P.E.-8-IND
 Wise, Ronnie F.-6-CON
 Wise, Stephen A.-3-PEP
 Wisenbaker, Richard Y.-2-IND
 Witty, M. Brents B., Jr., P.E.-6-PEP
 Wolf, Denis P., P.E.-9-PEP
 Wolfe, Robert L., Jr.-4-PEP
 Wolff, Harold E., P.E.-1-IND
 Wolfgram, Alvin G.-1-PEP
 Womack, Bobbie R., P.E.-2-GOV
 Womack, George L., P.E.-4-IND
 Womack, James P., P.E.-4-IND
 Womble, Michael D.-6-IND
 Wong, Kong, P.E.-7-GOV
 Woodward, John W., P.E.-3-IND
 Woods, Christopher M.-7-IND
 Woods, Wilfred-7-None
 Woolverton, Dalton L., P.E.-7-GOV
 Wooster, Gordon B., P.E.-5-IND
 Worley, G. Richard, P.E.-2-PEP
 Worrell, Harry M.-2-GOV
 Wreyford, Lauren L., P.E.-8-PEP
 Wright, David W., P.E.-8-IND
 Wright, Richard P., P.E.-2-GOV
 Wroten, James A., P.E.-6-IND
 Wust, John P., Jr., P.E.-7-IND
 Wyche, James E., Jr., P.E.-6-GOV

—Y—

Yaeger, Arthur G., Jr.-7-IND
 Yamin, Majid-7-CON
 Yancey, Ernest J., Jr., P.E.-7-GOV
 Yang, Thomas C.-7-IND
 Yannitell, Daniel W.-2-EDU
 Yates, J.C.-2-IND
 Yato, Akira-7-None
 Yeager E., Scott Jr., P.E.-1-PEP
 Yeates, R. Vernon, P.E.-8-IND
 Yeich, Stephen L., P.E.-6-IND
 Yesso, Paul T., P.E.-7-IND
 Young, Robert L., P.E.-4-PEP

—Z—

Zabelny, Laurie J.-7-None
 Zanca, Sam X., P.E.-9-None
 Zanki, Anton N.-7-IND
 Zatarain, Arthur M., P.E.-7-PEP
 Zeid, John S.-6-IND
 Zeretzke, Frederick J., P.E.-2-PEP
 Zeringer, Mark R., P.E.-7-CON
 Zeringue, Herman J., P.E.-7-GOV
 Zervigon, Luis M., P.E.-7-PEP
 Zervigon, Mario G., P.E.-7-PEP
 Ziegler, Robert P., P.E.-9-GOV
 Ziesenis, Arno G.-7-IND
 Ziifle, Robt. W., P.E.-7-IND
 Zimbelman, Frank A., P.E.-9-PEP
 Zochert, Marvin L., P.E.-1-IND
 Zukowski, Robert T., P.E.-8-PEP
 Zumwalt, T. H., P.E.-7-None

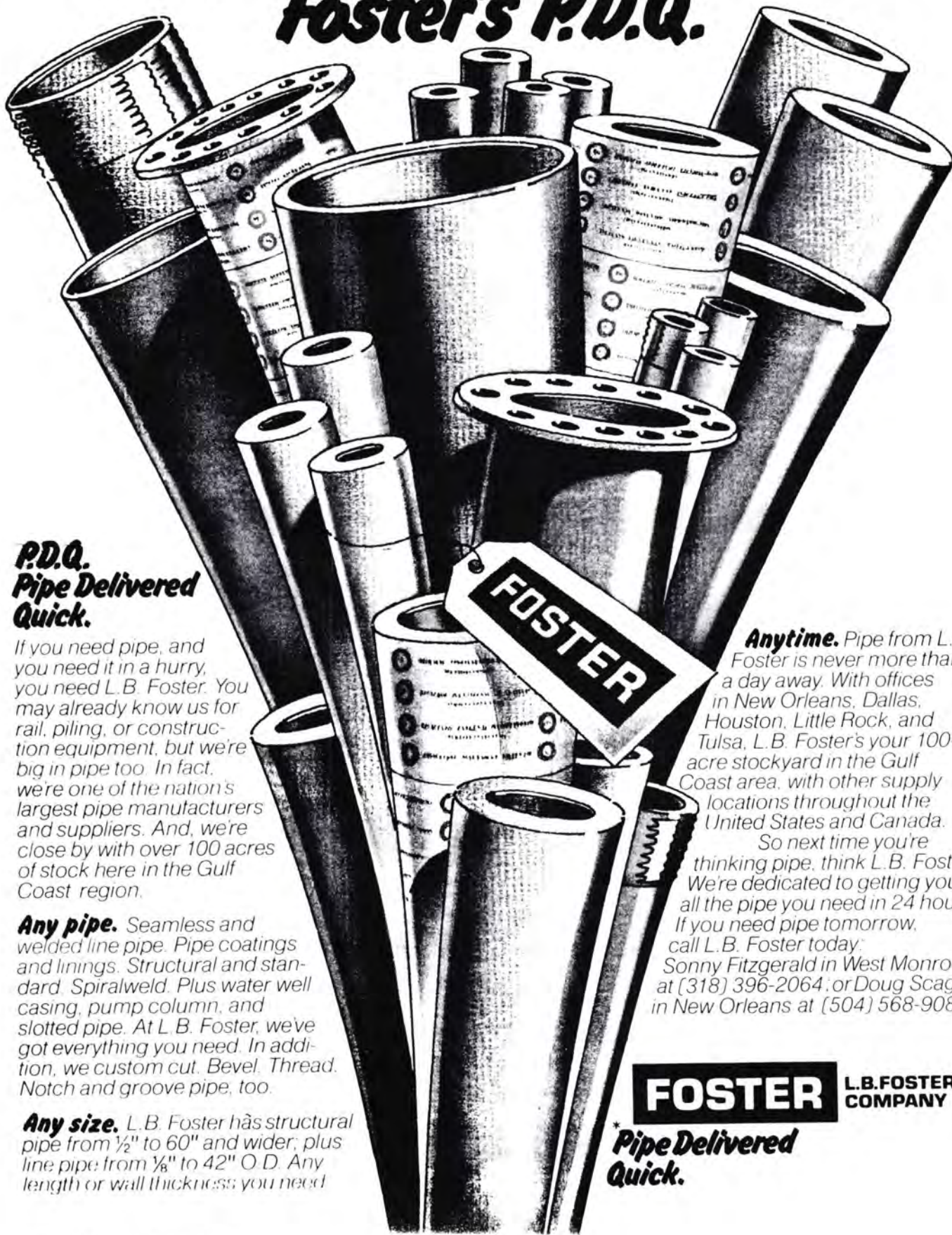
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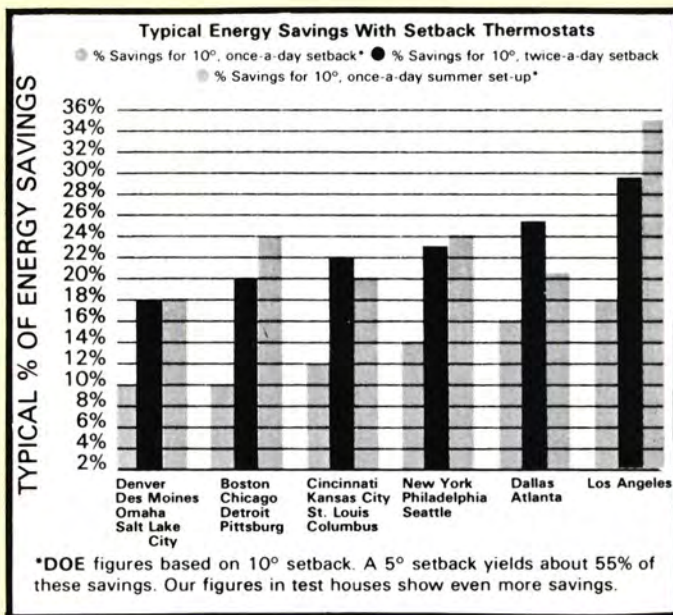
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UPDATE: *the SmartStat story*

A 2,600 square foot, six year old house in Winston-Salem, N.C. was outfitted with a SmartStat 1000-002 in March, 1980 (first billing period with SmartStat will be April bill). The heating system is a Westinghouse 4 ton Hi-Re-Li heat pump with 20 KW auxiliary electric heat. The house was typical insulation for an older heat pump residence. There is no wall vapor barrier and doors are standard (not insulated).

Records have been kept of the power consumption (KWH) and comparisons have been made between the AVERAGED consumption for four years ('76, '77, '78, '79) and then compared with the same month for 1980. Due to the reading date of the bill by Duke Power Company some one month readings may vary one to three days.

Months of February and March are shown (SmartStat 1000-002 not installed) to give credibility to this study by showing how similar February and March electrical consumption amounts were to the previous four year average for those months.

MONTH	AVE. 4 PREVIOUS YEARS	1980	% SAVINGS
February*	3575 KWH	3500 KWH	2%
March*	2275	2380	(3)
April	1455	1140	22
May	1490	1140	24
June	1810	1480	12
July	2410	1820	24

*Two month bills prior to SmartStat 1000-002 installation to set a pattern of 'typical' variance in this test.

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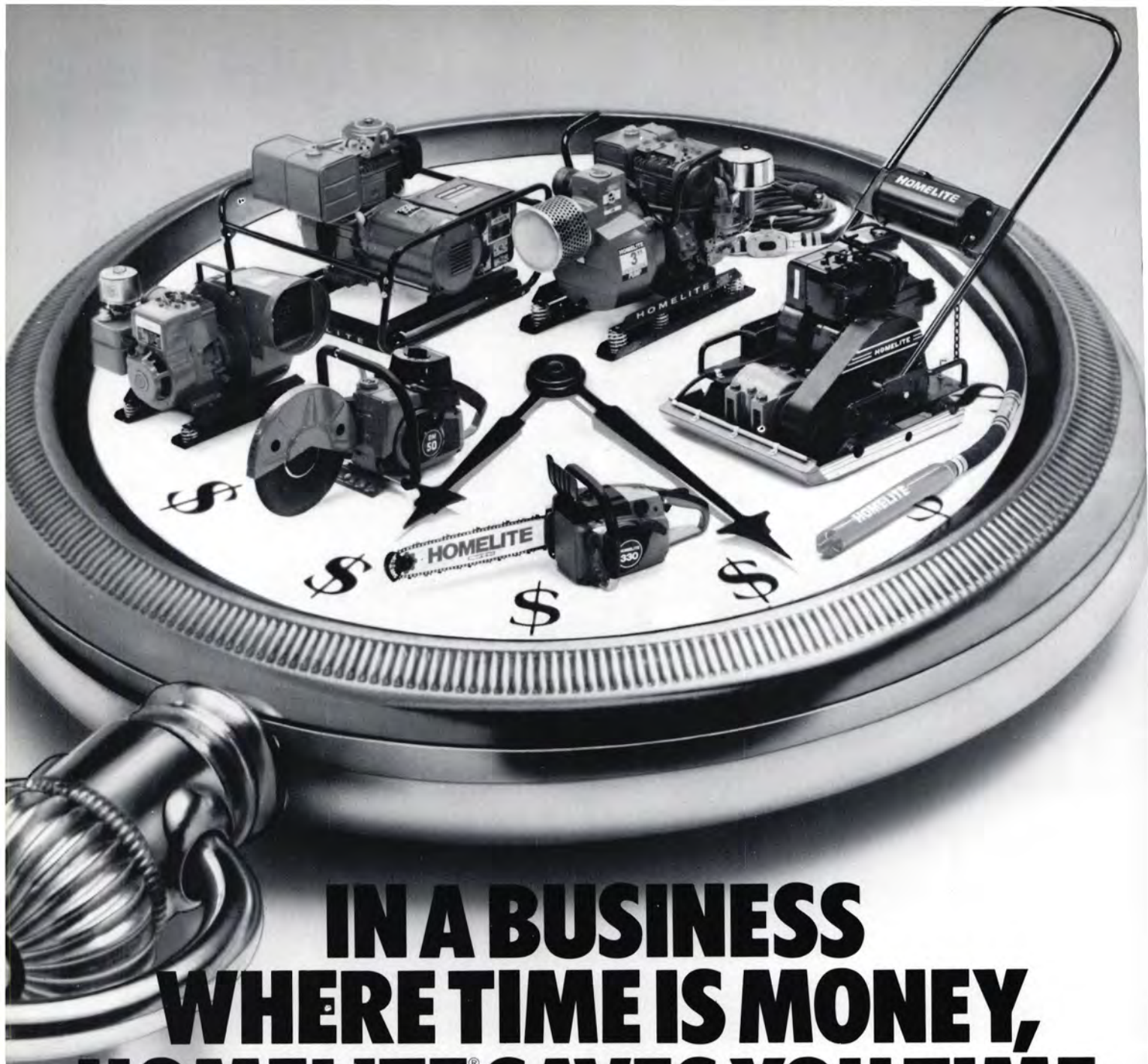
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F. Lee Adams, P.E.
604 Tanglewood Dr.
Alexandria, LA 71301

Larkin B. Agnew, P.E.
401 Idlewood Dr.
Alexandria, LA 71301

Jimmy R. Anyan
400 Pecan St.
Winnfield, LA 71483

Larry Ardoin
Star Rt. Box 116
Center Point, LA 71323

C. C. Bailey
PO Box 583
Alexandria, LA 71301

James R. Ballard, P.E.
PO Drawer 5638
Alexandria, LA 71301

Otha E. Barron, P.E.
325 Bush Ave.
Alexandria, LA 71301

Philip W. Beard, P.E.
PO Box 512
Lecompte, LA 71346

Sidney L. Bertheaud, P.E.
Box 5445
Alexandria, LA 71301

William M. Blackmer, P.E.
U S Army Bldg & Grounds Div
Fort Polk, LA 71459

George C. Blunck, P.E.
PO Box 1317
Tioga, LA 71477

Frederick P. Bolger
309 Mark St.
Alexandria LA 71301

James F. Bolyard
201 Dana Dr.
Pineville, LA 71360

Thomas R. Bordelon, P.E.
159 Deerbrook Dr.
Pineville, LA 71360

Rene Borrel
318 Borrel St.
Marksville, LA 71351

L. H. Bossier, P.E.
Box 7177
Alexandria, LA 71301

H. R. Boultinghouse, Jr., P.E.
PO Box 111
Alexandria LA 71301

Claude W. Boutte, Jr., P.E.
PO Box 4167
Alexandria, LA 71301

Daniel W. Bradford, P.E.
401 Wimbledon
Alexandria, LA 71301

James H. Branch, Jr.
PO Box 71
Alexandria, LA 71301

William H. Branch
2026 Vance
Alexandria, LA 71301

Merlin X. Braquet
PO Box 510
Pineville, LA 71360

William R. Brierley, P.E.
2604 Horseshoe Dr.
Alexandria, LA 71301

Sam J. Brocato
PO Box 741
Bunkie LA 71322

Daniel W. Brown, P.E.
Rt 2 Box 22-A
Colfax, LA 71417

Michael D. Callahan
PO Drawer 5638
Alexandria, LA 71301

Craig Cancienne
PO Box 510
Pineville, LA 71360

Richard A. Cedel, P.E.
1239 Canterbury Dr.
Alexandria, LA 71301

Marion J. Chaney, P.E.
400 Hillcrest
Alexandria, LA 71301

Robert E. Chappius, P.E.
PO Box 642
Pineville, LA 71360

Earl L. Chastant
PO Box 510
Pineville, LA 71360

Charles W. Chester, P.E.
5508 Mar-Bud Trace
Pineville, LA 71360

Willie T. Chevalier, P.E.
Rt. 1 Box 1058
Blenmora, LA 71433

Herbert F. Clarke
1243 Southampton Dr.
Alexandria, LA 71301

Donald W. Clayton, P.E.
PO Drawer 5638
Alexandria, LA 71301

Jay C. Commander, P.E.
158 Deerbrook
Pineville, LA 71360

Albert L. Conner, P.E.
210 Tanglewood Dr.
Alexandria, LA 71301

Warren H. Constant, P.E.
3212 Sterkx Road
Alexandria, LA 71301

C. W. Cook, P.E.
Route 1
Pollock, LA 71467

Arvra E. Craig, Jr., P.E.
PO Box 545
Pineville, LA 71360

Milton C. Daigre, P.E.
PO Box 5444
Alexandria, LA 71301

Roger D. Danzy
Box 1430
Alexandria, LA 71301

Thomas C. David, Jr., P.E.
118 Myrtlewood Dr.
Pineville, LA 71360

Thomas C. David, P.E.
1022 Tenth St.
Alexandria, LA 71301

Charles R. Davis, P.E.
PO Box 1391
Alexandria, LA 71301

Anthony Demarco
PO Drawer 5444
Alexandria, LA 71301

John G. Dingle, P.E.
4311 Whitefield Blvd.
Alexandria, LA 71301

Kenneth B. Dickerson, P.E.
Rt. 1
Lena, LA 71447

Eric S. Duck, P.E.
PO Drawer 5444
Alexandria, LA 71301

Edward R. Ducote
3666 Government St.
Alexandria, LA 71301

James L. Dumolt, Jr. P.E.
Rt. 5 Box 54, Apt. 52
Leesville, LA 71446

Raymond J. Dunn, Jr., P.E.
1022 Tenth St.
Alexandria, LA 71301

Raymond J. Dunn, P.E.
1022 Tenth St.
Alexandria, LA 71301

Claude K. Elkins, III
Box 1352
Alexandria, LA 71301

Otis H. Fennell
PO Box 768
St. Joseph LA 71366

Gary Fillette, P.E.
3708 Temple Circle
Alexandria, LA 71301

Laird C. Fletcher
PO Box 2104
Natchitoches, LA 71457

Mike L. Flynn, P.E.
4803 Wendover
Alexandria, LA 71301

John C. Fontenot, P.E.
108 Spring Creek Dr.
Pineville, LA 71360

Leonard G. Fontenot, P.E.
PO Box 7
St. Landry, LA 71367

Walter C. Fowler, P.E.
411 Hillcrest
Alexandria, LA 71301

Sam B. Frank, Jr.
742 Welwyn Way
Alexandria, LA 71301

James Franks, Jr.
PO Box 5638
Alexandria, LA 71301

James T. Fuglaar
4429 Walden Dr.
Pineville, LA 71360

Carroll J. Fuselier, Jr., P.E.
PO Box 510
Pineville, LA 71360

Benjamin J. Gallop
PO Box 659
Natchitoches, LA 71457

Thurmond J. Gates, P.E.
715 Davella Dr.
Deridder, LA 70634

Steven P. Gauthier, P.E.
Rt. 2, 868 Ridgeview
Pineville, LA 71360

Walter D. Gibson PO Box 456 Montgomery, LA 71454	James A. Hurst PO Box 510 Pineville, LA 71360	Michael L. Marchand 4907 Canal Dr. Alexandria, LA 71301	A. B. Owen Box 511 Alexandria, LA 71301
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William E. Heffington, P.E. 1701 Susek Dr. Pineville, LA 71360	Kerry J. Labauve, P.E. PO Box 6176 Alexandria, LA 71301	Jack S. Moffett PO Box 510 Pineville, LA 71360	Thomas D. Prestridge, Jr., P.E. 2915 Louise Ave. Alexandria, LA 71301
Michael L. Hiers, P.E. Rt. 2 Box 577 AA Pineville, LA 71360	Gary J. Lacombe Rt. 1, Box 162 Marksville, LA 71351	Thomas H. Mohar, P.E. 6412 Mil-Mar Blvd. Alexandria, LA 71301	Richard M. Primeaux, P.E. 104 Leah St. Pineville, LA 71360
Newton Himel, P.E. 107 Washington St. Pineville, LA 71360	Kenneth W. Lacroix PO Drawer 5444 Alexandria, LA 71301	Andrew M. Moore, P.E. 3216 Skyline Dr. Pineville, LA 71360	David K. Pugh 5509 Ursuline Alexandria, LA 71301
T. D. Hixson, P.E. P.O. Box 5444 Alexandria, LA 71301	Randolph B. Lacroix 311 Tioga Rd. Pineville, LA 71360	Partick C. Moore 1010 Oxford Alexandria, LA 71301	Cecil D. Raggio, P.E. 523 Wimbledon Blvd. Alexandria, LA 71301
Ralph B. Hollaway, P.E. Rt. 1, Box 200A St. Joseph, LA 71366	Bill H. Lambdin, III 4211 Earl Drive Alexandria, LA 71301	Enoch F. Nicewarner 430 Glen Ellen St. Pineville, LA 71360	Adolfo Ramirez, Jr., P.E. PO Box 48 Marksville, LA 71351
Laura C. Hopewell 53 Nall St. Alexandria, LA 71301	Robert L. Lawrence PO Box 5644 Alexandria, LA 71301	Charles L. Nix, P.E. 1842 Thornton Ct. Alexandria, LA 71301	Horace W. Rand PO Box 5424 Alexandria, LA 71301
Charles L. Humphries 6139 Lodi Rd. Alexandria, LA 71301	John H. Leggett Route 2 Box 440H Pineville, LA 71360	Rickey L. Nowlin, P.E. PO Box 2687 Natchitoches, LA 71457	Paul E. Randol, P.E. 3372 Halsey St. Alexandria, LA 71301
Donald G. Hunter, Jr. PO Drawer 5444 Alexandria, LA 71301	Mark S. MacDonald 2605 Holloway Prairie Rd. Pineville, LA 71360	Harvey L. Ohlmeyer PO Box 6116 Alexandria, LA 71301	James F. Rayner, P.E. PO Box 7704 Alexandria, LA 71301

Charles R. Robertson, P.E.
Rt. 2, Box 575
Pollock, LA 71467

J. T. Robison, P.E.
PO Box 1432
Alexandria, LA 71301

W. D. Roland, Jr., P.E.

Kenneth J. Roy, P.E.
3010 Anandale Rd.
Alexandria, LA 71301

Daniel D. Sandefur, P.E.
404 Wimbledon Blvd
Alexandria, LA 71301

David J. Scallan
Rt. 1, Box 162 C
Dry Prong, LA 71423

N. D. Scarborough, P.E.
5319 Airview Dr.
Alexandria, LA 71301

Donald E. Seay, P.E.
6521 Barber Dr.
Pineville, LA 71360

Caliphor J. Sellers, P.E.
PO Box 510
Pineville, LA 71360

Wilton J. Semien, Jr.
PO Box 636
Oakdale, LA 71463

J. P. Sessions, P.E.
400 Laurel St.
Vidalia, LA 71373

Larry E. Shriver
PO Box 5444
Alexandria, LA 71301

Jesse A. Simmons, Jr., P.E.
6207 Manor Dr.
Alexandria, LA 71301

Malcolm E. Simmons, P.E.
PO Box 1630
Alexandria, LA 71301

Joseph T. Simms, Jr., P.E.
2811 Donahue Ferry Rd.
Pineville, LA 71360

John C. Simpson, P.E.
PO Box 1099
Pineville, LA 71360

Daniel M. Smith, P.E.
3604 Royce Dr.
Alexandria, LA 71301

James B. Smith, P.E.
3120 Pershing St.
Alexandria, LA 71301

R. E. Smith
2912 Dennis St.
Alexandria, LA 71304

Wallace C. Smith, P.E.
PO Box 5638
Alexandria, LA 71301

Irvin L. Sonnier, P.E.
6117 Yoho Dr.
Alexandria, LA 71301

Wayne E. Staton, P.E.
128 Dana Drive
Pineville, LA 71360

Ashby B. Stevens, P.E.
PO Box 111
Alexandria, LA 71301

Kenneth V. Stewart, Jr., P.E.
2007 Lynda Lee Lane
Alexandria, LA 71301

Thomas Strickland
PO Box 6181
Alexandria, LA 71301

Anthony S. Suravitch
4606 Waverly Blvd.
Alexandria, LA 71301

Joseph A. Tarver
1022 10th St.
Alexandria, LA 71301

Rodney J. Tassin
368 Deer Trace #231
Pineville, LA 71360

E. E. Taylor, P.E.
1002 North 4th St.
Ferriday, LA 71334

Jimmy L. Terrill, P.E.
1111 Canterbury
Alexandria, LA 71301

Wm. J. Thevenote, Jr., P.E.
PO Box 111
Alexandria, LA 71301

Terrell B. Thibodeaux, P.E.
PO Box 510
Pineville, LA 71360

Paul D. Trimble
2114 Shreveport Hwy. Apt. 119
Pineville, LA 71360

John B. Tubb, P.E.
5909 Tall Pine Dr.
Pineville, LA 71360

Charles E. Turrentine, P.E.
2411 Horseshoe Dr.
Alexandria, LA 71301

Kenneth L. Voda
2012 Marigold
Alexandria, LA 71301

George A. Vollman, P.E.
6108 Manor Dr.
Alexandria, LA 71301

Richard D. Walsh, Jr., P.E.
PO Box 1430
Alexandria, LA 71301

Alexander Weissman, P.E.
PO Box 161
Alexandria, LA 71301

Larry R. Wells, P.E.
608 Edgewood Dr.
Pineville, LA 71360

Charles R. Westerchil, P.E.
3505 Prescott Rd.
Alexandria, LA 71301

Richard W. Westerman, Jr.,
P.E.
PO Box 2175
Natchitoches, LA 71457

Horace H. White
PO Box 870
Pineville, LA 71360

S. Rodney White, Jr., P.E.
524 Azalea Lane
Pineville, LA 71360

Wynn L. White, P.E.
PO Box 5638
Alexandria, LA 71301

Fred E. Wiker
PO Drawer 5638
Alexandria, LA 71301

Kenneth N. Williams, Sr.
5512 Ursuline
Alexandria, LA 71301

Frank L. Willis, P.E.
2014 Polk St.
Alexandria, LA 71301

Charles C. Wise
217 Maggie St.
Leesville, LA 71446

Howard E. Wolff, P.E.
1605 Texas
Alexandria, LA 71301

Alvin G. Wolfram
404 Welwyn Way
Alexandria, LA 71301

E. Scott Yeager, Jr., P.E.
808 Versailles Blvd.
Alexandria, LA 71301

Marvin L. Zochert, P.E.
124 Hudson St.
Pineville, LA 71360

BATON ROUGE—CHAPTER 2

President—Glynn P. Gautreau, P.E. Office Phone 504-293-2460
Home Phone 504-272-9810

1st Vice President—Larry A. McKee, P.E. Office Phone 504-769-2810
Home Phone 504-766-2734

2nd Vice President—James C. Porter, P.E. Office Phone 504-342-7624
Home Office 504-383-8218

Secretary-Treasurer—Ronald J. Rodi, P.E. Office Phone 504-344-3782
Home Phone 504-343-7371

Thomas K. Aberly
242 Edison #6
Baton Rouge, LA 70806

R. J. Aguilar, P.E.
4866 Whitehaven St.
Baton Rouge, LA 70808

Verdi Adam, P.E.
P O Box 44245 Capitol Station
Baton Rouge, LA 70804

T. E. Alexander, P.E.
11308 Goodwood Ave.
Baton Rouge, LA 70815

Clyde C. Adams, P.E.
P O Box 31
French Settlement LA 70733

Van H. Alford, P.E.
3748 Churchill Ave.
Baton Rouge, LA 70808

Richard B. Adams, P.E.
P O Box 45212 Dept 186
Baton Rouge LA 70895

Robert D. Allen, P.E.
11744 Millburn Dr.
Baton Rouge, LA 70815

William W. Addison, P.E.
1414 O'Neal Ln.
Baton Rouge, LA 70816

Lionel C. Allmand, Jr., P.E.
P O Box 73875
Baton Rouge, LA 70807

Michael V. Aderman, P.E.
3820 Churchill Ave.
Baton Rouge, LA 70808

David G. Alvarez, P.E.
16416 Centurion
Baton Rouge, LA 70816

Jerry W. Affolter, Jr., P.E.
3168 Murphy Dr.
Baton Rouge, LA 70809

Ralph W. Amos, Jr., P.E.
Rt. 3, Box 6
Prairieville, LA 70769

Fred G. Anepohl, Jr., P.E. 1541 Sherwood Forest Blve. Baton Rouge, LA 70815	Harold T. Barr, P.E. 409 Cornell Ave. Baton Rouge, LA 70803	John J. Blanche 3239 Morning Glory Ave. Baton Rouge, LA 70808	Austin S. Bridgforth, III, P.E. 7475 Richards Drive Baton Rouge, LA 70809
Joe M. Ansley, Jr., P.E. 8508 Greenwell Springs Rd. Baton Rouge, LA 70814	Herman D. Barr, P.E. 16959 Ticonderoga Dr. Baton Rouge, LA 70816	Robert P. Blanche, P.E. PO Box 15728 Baton Rouge, LA 70895	Gary M. Broderick, P.E. 1521 Sherwood Forest Blvd. Baton Rouge, LA 70815
Simone A. Ardoin 1720 Nicholson #37 Baton Rouge LA 70802	Wilfred B. Barry, P.E. PO Box 1751 Baton Rouge, LA 70821	Jack W. Boozer, P.E. 4929 Parkoaks Dr. Baton Rouge, LA 70816	Frederick M. Brooks, P.E. 9730 Mesa Verde Baton Rouge, LA 70814
Ara Arman, P.E. 1148 Verdun Dr. Baton Rouge, LA 70810	A. P. Batchelor, P.E. 5615 S. Ridge Dr. Baton Rouge, LA 70806	Edward Borie, P.E. 9124 Delmar Dr. Baton Rouge, LA 70815	Daniel J. Broussard, P.E. 7626 Pennhill Dr. Baton Rouge, LA 70816
Jesse L. Arnold, P.E. P O Box 66317 Baton Rouge, LA 70896	Gary J. Beard, P.E. PO Box 3838 Baton Rouge, LA 70821	Oscar J. Boudreaux, Jr. PO Box 1751 Baton Rouge, LA 70821	Frederick D. Broussard, P.E. 4512 Highland Rd. Baton Rouge, LA 70808
James M. Aronstein, Jr. P.E. 10555 Airline Hwy. Baton Rouge, LA 70816	Fred Bell, Jr., P.E. 965 Kenilworth Pkwy. Baton Rouge, LA 70808	Paul C. Boudreaux, P.E. 1823 Wooddale Blvd. Baton Rouge, LA 70806	R. Paul Broussard, P.E. 12831 Country Ridge Baton Rouge, LA 70816
Jack A. Ashton, Jr., P.E. 11888 Longridge Dr., Apt. 2031 Baton Rouge, LA 70816	Richard L. Bengtson, P.E. LSU AG Engr. Dept. Baton Rouge, LA 70803	Steve M. Boudreaux 5615 Corporate Blvd. Baton Rouge, LA 70808	C. C. Brown, P.E. PO Box 711 Baton Rouge, LA 70821
James G. Atteberry, P.E. 1055 South Alameda Dr. Baton Rouge, LA 70815	Francis L. Bergeron, P.E. 1557 Pelham Baton Rouge, LA 70805	Truman A. Bourgeois, P.E. 1525 Cameron Baton Rouge, LA 70806	Dan A. Brown, P.E. PO Box 80379 Baton Rouge, LA 70898
Jones H. Austen, III 4535 Charles St. Baton Rouge, LA 70805	C. C. Bernard, P.E. 2040 Oleander St. Baton Rouge, LA 70806	Gordon P. Boutwell, P.E. 316 Highlandia Ave. Baton Rouge, LA 70810	Evan C. Brown, Jr., P.E. 1082 S. Tinley Dr. Baton Rouge, LA 70815
Don P. Babcock, P.E. 1345 Marilyn Baton Rouge, LA 70815	Lester P. Berniard, P.E. 10942 Malcolm St. Baton Rouge, LA 70811	David B. Boyles, P.E. 6616 Seven Oaks Baton Rouge, LA 70806	William H. Brown, P.E. 1325 Louray Dr. Baton Rouge, LA 70808
David W. Backstedt Rt 1 Box 1A Slaughter, LA 70777	S. P. Bertrand, P.E. 2186 Dallas Dr. Baton Rouge, LA 70806	Mahmood Bozargzad 10530 Florida Blvd. #204 Baton Rouge, LA 70815	Michael G. Bruce 5615 Corporate Blvd. Baton Rouge, LA 70816
John M. Bailes 15322 Country Road Greenwell Springs, LA 70739	William E. Biles 3128 CEBA LSU Baton Rouge, LA 70803	Jerry D. Brammer, P.E. 2851 Woodland Ridge Blvd. Baton Rouge, LA 70816	Robert F. Bruce, P.E. 1575 McMichael Baton Rouge, LA 70815
John R. Baker, P.E. 12335 Queensbury Baton Rouge, LA 70815	Amos L. Black, III, P.E. 12721 Morgan Meadow Baton Rouge, LA 70811	John W. Branch 5435 Highland Ridge Dr. Baton Rouge, LA 70816	James R. Buchtel, P.E. 10010 Sombbrero Ave. Baton Rouge, LA 70815
Oren Baker, P.E. 489 College Hill Dr. Baton Rouge, LA 70808	Donald M. Black, P.E. 10225 S. Riveroaks Baton Rouge, LA 70815	Charles Z. Breaux, Jr., P.E. PO Box 700 Baker, LA 70714	Coan J. Bueche, P.E. 508-D E. Talbot Dr. Plaquemine, LA 70764
Leo V. Bankston, P.E. PO Box 64808 Baton Rouge, LA 70896	James M. Black, P.E. 5015 E. Bluebell Dr. Baton Rouge, LA 70808	M. Gregory Breaux, P.E. 638 Penalver Baton Rouge, LA 70802	John T. Bulla, P.E. 6322 Celestial Dr. Baton Rouge, LA 70816
Floyd L. Barbay, P.E. PO Box 66424 Baton Rouge, LA 70806	Richard W. Blackstone, P.E. 12337 Oak Hills Pkwy. Baton Rouge, LA 70808	Robert L. Breaux 6643 St. Francis Ave. Baton Rouge, LA 70811	Ray W. Burgess, P.E. 11755 Sherbrook Dr. Baton Rouge, LA 70815
Thomas J. Barfield, P.E. 5812 Bennington Ave. Baton Rouge, LA 70808	Alan T. Blackwood, P.E. 11844 Pamela Dr. Baton Rouge, LA 70815	J. H. Brewer, P.E. 12439 E. Glenhaven Baton Rouge, LA 70815	Jack S. Burk, P.E. Rt. 1 Box 77E Jackson, LA 70748
Charles P. Barnard, P.E. 860 Finchley Ave. Baton Rouge, LA 70806	Paul J. Blalock, Jr., P.E. 12991 Highland Rd. Baton Rouge, LA 70810	John F. Brewer 829 N Coventry Baton Rouge, LA 70808	John O. Burnett Box 386 Denham Springs, LA 70726
James H. Barnett, P.E. 3066 McConnell Dr. Baton Rouge, LA 70809	Glenny P. Blanchard, P.E. 455 Summit Ridge Dr. Baton Rouge, LA 70815	Robert M. Brian 304 Hermitage Dr. Denham Springs, LA 70726	Montrust Q. Burrell, Jr., P.E. 1090 Bayberry St. Baton Rouge, LA 70807

Robert W. Burton, P.E. 505 Glenwild Dr. Baton Rouge, LA 70815	Dale R. Carver, P.E. 1645 Ingleside Dr. Baton Rouge, LA 70808	Jesse Coates, Jr., P.E. 1046 Drehr Ave. Baton Rouge, LA 70806	Michael G. Cullen, Jr., P.E. 12246 E Millburn Dr. Baton Rouge, LA 70815
Steven R. Bush, P.E. 14527 Bright View Ct. Baton Rouge, LA 70815	Charles L. Carville, P.E. 1200 Osage Ave. Plaquemine, LA 70764	Jesse Coates, P.E. 2320 Terrace Ave. Baton Rouge, LA 70806	Louis Cusachs, P.E. 1179 Park Blvd. Baton Rouge, LA 70806
Kenneth J. Buturla 16853 Cold Harbour Ave. Baton Rouge, LA 70816	David J. Carville, P.E. 661 Ingleside Dr. Baton Rouge, LA 70808	Randall H. Collier 5290 Gleburnie Dr. Baton Rouge, LA 70808	Maurice F. Dalton 1855 Brightside Dr Apt. 228 Baton Rouge, LA 70808
John J. Cahill, III, P.E. 9969 Professional Blvd. Baton Rouge, LA 70809	John D. Cate, P.E. 263 Kirkley Place West Baton Rouge, LA 70815	Kimberlee B. Compther, P.E. 5534 Bluewater Dr. Baton Rouge, LA 70810	L. R. Daniel, Jr., P.E. c/o M. E. Dept. LSU Baton Rouge, LA 70803
Albert N. Cameron, P.E. 1904 Beechgrove Dr. Baton Rouge, LA 70806	Samir K. Chakravarty, P.E. 13513 Timber Ridge Baton Rouge, LA 70816	Steven D. Compther, P.E. PO Box 45081 Baton Rouge, LA 70895	A. B. Daniels, Jr., P.E. 8725 W. Fairway Dr. Baton Rouge, LA 70809
Lee Campbell, P.E. PO Box 3193 Baton Rouge, LA 70821	Michael A. Chambers 1046 Brookhollow Dr. Baton Rouge, LA 70810	Karl O. Cooper, P.E. 12254 E Millburn Baton Rouge, LA 70815	Elvin J. Dantin, P.E. 1667 Pollard Parkway Baton Rouge, LA 70808
Inez D. Cancienne 3310 Perkins Road Baton Rouge, LA 70808	Stewart L. Chaney PO Box 982 Clinton, LA 70722	John C. Copes, P.E. 2750 McConnell Dr. Baton Rouge, LA 70809	Paul A. D'Antoni, P.E. 5446 Valley Forge Baton Rouge, LA 70808
Adolfo Cano, P.E. 735 Dentation Dr. Baton Rouge, LA 70808	Thomas Charrier, P.E. 9222 Junelise Baton Rouge, LA 70811	William L. Corbin, Jr., P.E. 12428 Parkvale Ave. Baton Rouge, LA 70816	Olin K. Dart, Jr., P.E. LSU Dept of Civil Engineering Baton Rouge, LA 70803
Louis J. Capozzoli, Jr., P.E. 10555 Airline Hwy. Baton Rouge, LA 70816	Leonard J. Chauvin, Jr. Star Rt. 2 Box 225 B Schriever, LA 70395	Clement J. Cornay, P.E. 2244 Stonehenge Ave. Baton Rouge, LA 70808	Ralph L. Davenport, P.E. 829 Tifton Dr. Baton Rouge, LA 70808
Thornton L. Cappell, Jr., P.E. 4568 Woodside Dr. Baton Rouge, LA 70808	William V. Cheesman, P.E. 12612 Brogdon Lane Apt. #1 Baton Rouge, LA 70816	John L. Cotton, P.E. 5615 Corporate Blvd. Baton Rouge, LA 70808	Claude E. Daviet, P.E. 1764 Country Club Dr. Baton Rouge, LA 70808
Clyde E. Carlson, P.E. 832 N 7th Baton Rouge, LA 70802	Sahib S. Chehl 335 Fulwar Skipwith Rd. Baton Rouge, LA 70813	John W. Couvillion, P.E. 665 Sherwood Forest Blvd. Baton Rouge, LA 70815	Paul W. Davis 10620 North Park Dr. Baton Rouge, LA 70811
S. S. Carnegie, P.E. 129 Clara Dr. Baton Rouge, LA 70808	Don W. Chesson, P.E. 6465 Renoir Dr. Baton Rouge, LA 70806	Robert L. Couvillion, P.E. PO Box 45212 Dept. 248 Baton Rouge, LA 70895	W. G. Davis, P.E. Box 44245 Baton Rouge, LA 70804
Earl H. Carpenter, P.E. PO Box 45054 Baton Rouge, LA 70895	Lamy J. Chopin, Jr., P.E. Rt. 4 Box 753 Denham Springs, LA 70726	Allen L. Cox, P.E. 887 Rodney Dr. Baton Rouge, LA 70808	James E. Delaune, Jr., P.E. Rt 5 Box 966 Denham Springs, LA 70726
Charles R. Carradine, P.E. 1552 Leycester Baton Rouge, LA 70808	Marvin M. Christensen, P.E. 12382 Mollylea Dr. Baton Rouge, LA 70815	Eugene R. Cox, Jr., P.E. 9554 El Cajon Dr. Baton Rouge, LA 70815	Bertram R. Denham, P.E. PO Box 73875 Baton Rouge, LA 70807
B. M. Carriere, P.E. 5615 Corporate Blvd. Baton Rouge, LA 70808	John M. Christman, P.E. 12659 Brookshire Ave. Baton Rouge, LA 70816	William O. Crabtree, Jr., P.E. 3732 Platt Dr. Baton Rouge, LA 70814	Lyn A. Denton, P.E. 12451 Parkwood Dr. Baton Rouge, LA 70815
Herb S. Carter Box 22882, LSU Baton Rouge, LA 70803	Jack H. Clabaugh, P.E. 3119 Valcour Aime Baton Rouge, LA 70808	Toxie Craft, P.E. 5051 Greenwell Springs Rd. Baton Rouge, LA 70806	Lorraine L. Deslatte 3128 CEBA LSU Baton Rouge, LA 70893
J. B. Carter, P.E. 445 Broadmoor Ave. Baton Rouge, LA 70815	Kenneth M. Clark, P.E. Rt. 9 Box 382 Denham Springs, LA 70726	Daniel V. Cresap, P.E. 1227 Seyburn Dr. Baton Rouge, LA 70808	Frank Dimmick II, P.E. 10038 El Camino Ave Baton Rouge, LA 70815
William H. Carter, P.E. 865 Dubois Dr. Baton Rouge, LA 70808	Sarah K. Cloninger Rt. 2 Box 135 St. Amant, LA 70774	Lloyd A. Crockford, P.E. 12766 Parnell Baton Rouge, LA 70815	Julius Dolgos, P.E. 8176 Rainbow Dr. Baton Rouge, LA 70809
John H. Cartwright, P.E. 4210 Pine Ridge Baton Rouge, LA 70809	Charles H. Coates, Jr., P.E. PO Box 267 Baton Rouge, LA 70821	William A. Crumpler, P.E. 9625 Shoe Creek Dr. Baton Rouge, LA 70811	Victor R. Donald 316 Highlandia Baton Rouge, LA 70810

- T. F. Donlon, P.E.**
1834 Ingleside Dr.
Baton Rouge, LA 70808
- Jeremiah J. Doody, P.E.**
4820 Greenridge Dr.
Baton Rouge, LA 70814
- Carl L. Douglas, Jr., P.E.**
10727 Wheeler Bend
Baton Rouge, LA 70814
- Donald W. Drone**
11764 Pamela Dr.
Baton Rouge, LA 70815
- Louis Duclos, P.E.**
4328 Hyacinth Ave.
Baton Rouge, LA 70808
- Don W. Duff, P.E.**
10920 Airline Hwy Apt. 4
Baton Rouge, LA 70816
- J. Larry Dufour, P.E.**
2865 Mason St.
Baton Rouge, LA 70805
- Edward B. Dumont, P.E.**
12556 Mollylea
Baton Rouge, LA 70815
- Albert J. Dunn, P.E.**
12738 E Robinhood Dr.
Baton Rouge, LA 70815
- David G. Durrett, P.E.**
10300 W Winston #9
Baton Rouge, LA 70809
- J. S. Durrett, P.E.**
606 Leeward Dr.
Baton Rouge, LA 70808
- Bruce K. Dyson, P.E.**
14014 Rampart Ct
Baton Rouge, LA 70810
- Gerald R. Dyson, P.E.**
7150 Government St.
Baton Rouge, LA 70806
- Bruce B. Earle, P.E.**
6638 Highland Dr.
Baton Rouge, LA 70808
- Donald M. Edington, P.E.**
PO Box 44066
Baton Rouge, LA 70804
- William E. Edrington, Jr., P.E.**
Box 66396
Baton Rouge, LA 70806
- Clarence C. Edwards, Jr., P.E.**
924 Marilyn Dr.
Baton Rouge, LA 70815
- Michael S. Ellegood, P.E.**
PO Box 18790-A
Baton Rouge, LA 70803
- David B. Elliott**
1575 Riverside North
Baton Rouge, LA 70802
- Hameed A. Elnaggar**
18952 Winterwood Ct.
Baton Rouge, LA 70816
- James E. Emmert, P.E.**
5532 Port Hudson RR H2
Baton Rouge, LA 70816
- Robert L. Emmert, P.E.**
6033 Esplanade Ave.
Baton Rouge, LA 70806
- Herman A. Endlekofer, P.E.**
PO Box 15728
Baton Rouge, LA 70895
- Stephanie L. Engels**
Box 22766
Baton Rouge, LA 70893
- Janet L. Evans**
16823 Cold Harbour Ave.
Baton Rouge, LA 70816
- Peter J. Fadden, P.E.**
3335 Buchanan St.
Baker, LA 70714
- Fred H. Fenn, P.E.**
878 Kenmore Ave.
Baton Rouge, LA 70806
- Richard F. Fenton, P.E.**
2151 East Ramsey Dr.
Baton Rouge, LA 70808
- Norman C. Ferachi**
12441 E. Sheraton Dr.
Baton Rouge, LA 70815
- George R. Ferguson, III, P.E.**
434 Highland Park Dr.
Baton Rouge, LA 70808
- Ronald K. Ferris, P.E.**
1902 Roseneath Dr.
Baton Rouge, LA 70806
- John R. Fielding, P.E.**
13213 Todd Ave.
Baton Rouge, LA 70815
- Arthur P. Fillastre, III, P.E.**
12389 E Robin Hood
Baton Rouge, LA 70815
- Russell H. Fish, P.E.**
PO Box 1967
Baton Rouge, LA 70821
- Fred J. Fletcher, P.E.**
11923 Fairhaven
Baton Rouge, LA 70815
- Robert M. Fletcher, Jr.**
Ethyl Corp Gulf States Rd.
Baton Rouge, LA 70802
- Henry H. Forrester Jr., P.E.**
Rt. 1, Box 303A
Clinton, LA 70722
- Vincent A. Forte, P.E.**
1404 Ory St.
Plaquemine, LA 70764
- Charles W. Foshee**
11528 Old Hammond Hwy.
Apt. 1003
Baton Rouge, LA 70816
- Paul B. Fossier, Jr.**
1245 Cora Dr.
Baton Rouge, LA 70815
- James R. Fowler, P.E.**
4186 Downing Dr.
Baton Rouge, LA 70809
- Angie Franklin**
PO Box 65151
Baton Rouge, LA 70896
- Durard D. Franklin**
16160 Confederate Ave.
Baton Rouge, LA 70816
- Edgar H. Frederic, Jr., P.E.**
12228 Queensbury Ave.
Baton Rouge, LA 70815
- Bradley M. Frederick**
7878 LaSalle Ave #230
Baton Rouge, LA 70806
- Kenneth M. Frith, P.E.**
10722 Rondo Ave.
Baton Rouge, LA 70815
- Charles R. Furlow, P.E.**
6628 Millstone
Baton Rouge, LA 70806
- Leo W. Gagnon, P.E.**
3036 Woodland Ridge Blvd.
Baton Rouge, LA 70816
- Geo. C. Gallagher, Jr.**
1661 E Lakeshore Dr.
Baton Rouge, LA 70808
- David L. Galster**
9431 Tracy Ave.
Baton Rouge, LA 70814
- Joseph Garrett**
11415 Flamingo Dr.
Baton Rouge, LA 70814
- Robert W. Garrison, Jr.**
PO Box 1273
Denham Springs, LA 70726
- Kathleen B. Gates**
3942 Gourrier #209
Baton Rouge, LA 70808
- Louis B. Gaudin, P.E.**
11505 Manorwood Dr.
Baton Rouge, LA 70815
- Glynn P. Gautreau, P.E.**
10555 Airline Swy
Baton Rouge, LA 70816
- James C. Gentry**
PO Box 14389
Baton Rouge, LA 70808
- Jose N. German, P.E.**
Rt 3 Box 481D, Amiss Rd.
Baton Rouge, LA 70180
- Frank J. Germano, P.E.**
Dept. Engr. LSU Atkinson Hall
Baton Rouge, LA 70803
- Clarke J. Gernon**
203 Hermitage St.
Denham Springs, LA 70726
- Thomas E. Gess**
1847 Sierra Vista Dr.
Baton Rouge, LA 70815
- Richard G. Riannone, P.E.**
3233 So. Sherwood Forest Blvd.
70816
- James R. Gilbert, P.E.**
PO Box 267
Baton Rouge, LA 70821
- Charles D. Gilliam, P.E.**
1655 S Elaine
Baton Rouge, LA 70815
- Gary S. Gipson**
LSU Dept. of Civil Engineering
Baton Rouge, LA 70803
- Raul Gonzalez, P.E.**
2320 Drusilla
Baton Rouge, LA 70809
- Richard A. Gordon, III**
4155 Essen Lane #234
Baton Rouge, LA 70809
- Joseph P. Gossen, P.E.**
7633 Boone
Baton Rouge, LA 70808
- Carl F. Grant, P.E.**
712 Labauve
Plaquemine, LA 70764
- John A. Graves, P.E.**
4755 Convention
Baton Rouge, LA 70802
- Robert G. Graves, P.E.**
1235 Colonial Dr.
Baton Rouge, LA 70806
- Robert W. Gray, III, P.E.**
13926 Leighwood
Baton Rouge, LA 70815
- Richard M. Gremillion, P.E.**
1282 Sarah Ave.
Baton Rouge, LA 70816
- Glenn F. Gressens, P.E.**
10224 Kenlee Dr.
Baton Rouge, LA 70815
- Terry R. Grier**
Rm 3530 CEBA Bldg.
Baton Rouge, LA 70803
- John F. Grosch, III, P.E.**
Box 66317
Baton Rouge, LA 70896
- Frank R. Groves, Jr., P.E.**
1055 W. Lakeview
Baton Rouge, LA 70810

Stanford E. Groves, P.E. 12530 Parkvale Ave. Baton Rouge, LA 70816	Wallace J. Hargrave, P.E. 3231 Aletha Dr. Baton Rouge, LA 70814	John E. Hobbs 2516 Theodosia Baton Rouge, LA 70809	Carey M. Jackson, P.E. 9326 Cal Road Baton Rouge, LA 70809
Rhaoul A. Guillaume, P.E. PO Box 4302 Baton Rouge, LA 70821	John Q. Hargrove 7878 Lasalle Ave #234 Baton Rouge, LA 70806	Raymond D. Hodges, P.E. 2708 N. Acadian Thruway Baton Rouge, LA 70805	John C. Jackson, P.E. 835 Burgin Ave. Baton Rouge, LA 70808
Melanie E. Guillot 1209 S Sybil Ave. Gonzales, LA 70737	Charles G. Harlan, P.E. 466 Landwood Dr. Baton Rouge, LA 70806	Trudeau J., Hogue, Jr., P.E. 9833 N. Parkview Dr. Baton Rouge, LA 70815	C. F. Jacques, P.E. Ormet Corporation Burnside, LA 70737
Roger P. Guissinger, P.E. 5677 So Pollard Pkwy. Baton Rouge, LA 70808	Joe H. Harman, P.E. 10913 Cedar Bend Baton Rouge, LA 70814	Harold D. Holeman 4820 Antioch Blvd. Baton Rouge, LA 70816	Cynthia M. James 916 Arcadia Dr. Baton Rouge, LA 70810
Walter C. Gulick, P.E. 1734 Stuart Ave. Baton Rouge, LA 70808	Robert A. Hart, III, P.E. P.O. Box 66436 Baton Rouge, LA 70896	Richard E. Holliday 5459 Prescott Rd., Apt. 112 Baton Rouge, LA 70805	J. H. Jenkins, Jr., P.E. 1735 North Vega Baton Rouge, LA 70815
William B. Gurney, P.E. 1439 Arlington Ave. Baton Rouge, LA 70808	Samuel W. Hazlip, III, P.E. 11871 Parkwood Dr. Baton Rouge, LA 70815	Joseph K. Hollier 11246 Flamingo Dr. Baton Rouge, LA 70814	James R. Joffrion, P.E. 5120 Stumberg Ln. Baton Rouge, LA 70816
James E. Gutierrez, P.E. 7917 Board Dr. Baton Rouge, LA 70816	Stephen W. Hazlip P.O. Box 66424 Baton Rouge, LA 70896	Robert E. Holman, P.E. 1410 Montgomery Baton Rouge, LA 70815	Fielding H. Johnson, P.E. 2147 Govt. St. Baton Rouge, LA 70806
Charles W. Hair, III, P.E. 10555 Airline Hwy Baton Rouge, LA 70816	Calvin J. Hebert, P.E. 11445 Manor Wood Dr. Baton Rouge, LA 70815	Norris D. Hood, Jr., P.E. 12605 Parkmeadow Ave. Baton Rouge, LA 70816	Frank B. Johnson, P.E. 2330 Kleinert Ave. Baton Rouge, LA 70806
Charles W. Hair Jr., P.E. 2964 Murphy Dr. Baton Rouge, LA 70809	E. Hiram Hebert, P.E. 820 Labauve Ave. Plaquemine, LA 70764	James B. Hornsby, Jr., P.E. 6025 Parkhaven Dr. Baton Rouge, LA 70806	O. D. Johnson, Jr., P.E. 10444 South Riveroaks Baton Rouge, LA 70815
Douglas L. Haley, P.E. 10320 Oliphant Rd Baton Rouge, LA 70809	Omer J. Hebert, P.E. 1015 Osage Ave. Plaquemine, LA 70764	Robert G. Hornsby, P.E. 1824 Wimpole Dr. Baton Rouge, LA 70815	Bryce H. Jones, II 15852 Foxwood Baton Rouge, LA 70816
Clarence E. Hall 3128 CEBA Bldg. Baton Rouge, LA 70803	T. C. Heil, P.E. 9625 Ventura Dr. Baton Rouge, LA 70815	H. D. Howard 556 Glenwild St. Baton Rouge, LA 70815	Elmer Jones, P.E. 2036 Wooddale Blvd, Suite P Baton Rouge, LA 70806
Jeffrey D. Hall PO Box 500 Geismar, LA 70734	Samuel J. Helfman, P.E. 1143 Chevelle Dr. Baton Rouge, LA 70806	Claude H. Hudson, Jr., P.E. Rt. 1, Box 154-H Pride, LA 70770	John C. Julian, P.E. 1013 N. Fairway Dr. Zachary, LA 70791
Fabio G. Halphen, Jr., P.E. 4346 S River Rd. Port Allen, LA 70767	J. H. Henderson 15742 Hogenville Baton Rouge, LA 70816	Glenn J. Hulin P.O. Box 568 Walker, LA 70785	James W. Justice, P.E. Rt. 6 Box 1016 Denham Springs, LA 70726
S. Dale Hancock, P.E. 947 Shadyglen Dr. Baton Rouge, LA 70816	Dorian P. Heroman, P.E. 6428 Teah St. Greenwell Springs, LA 70739	Harry A. Hungate 10201 Mayfair Dr. Baton Rouge, LA 70809	Ted H. Kalencki, P.E. 3944 Church St. Zachary, LA 70791
L. P. Handy, P.E. PO Box 15728 Baton Rouge, LA 70895	Frank M. Heroy, Jr., P.E. P.O. Box 44245 Baton Rouge, LA 70804	Alvin N. Hunt, P.E. 9023 Whitehall Ave. Baton Rouge, LA 70806	Dabipi I. Karisemie P.O. Box 20131, LSU Baton Rouge, LA 70893
Jerri L. Hanks 3585 Courtland Dr. Baton Rouge, LA 70814	William P. Hickey, P.E. 830 Lonita St. Baton Rouge, LA 70815	John P. Hurstell 4900 Kendall Dr. New Orleans, LA 70126	Raphael G. Kazmann, P.E. 231 Duplantier Blvd. Baton Rouge, LA 70808
Fred A. Hannaman, Jr., P.E. 1671 Cedardale Ave. Baton Rouge, LA 70808	Joseph C. Hill, P.E. 2153 Broussard St. Baton Rouge, LA 70808	Lawrence P. Hymel, Jr. 244 Peachtree Blvd. Baton Rouge, LA 70806	Timothy E. Kelley, P.E. P.O. Box 14001 Baton Rouge, LA 70808
Bradley L. Hansel, P.E. PO Box 1011 Denham Springs, LA 70726	Mariano Hinojosa, P.E. P.O. Box 44275 Baton Rouge, LA 70804	Ivan E. Imes, P.E. 884 Marlbrook Dr. Baton Rouge, LA 70815	John J. Kelly, P.E. 12756 Archery Dr. Baton Rouge, LA 70815
Robert L. Harbour, Jr., P.E. 1334 Stephens Ave. Baton Rouge, LA 70808	James W. Hipps P.O. Box 14327 Baton Rouge, LA 70808	Ted S. Ivy 228 Linda Dr. Baton Rouge, LA 70806	Donald R. Kennedy 10550 Airline Hwy. Baton Rouge, LA 70816

William H. Kennedy, P.E. 7427 Director Dr. Baton Rouge, LA 70816	William G. Kyle, P.E. 940 Tifton Dr. Baton Rouge, LA 70815	Robert D. Law 1830 Marilyn Dr. Baton Rouge, LA 70815	Alfred K. Lockwood, P.E. P.O. Box 150 Plaquemine, LA 70764
David M. Kernion, P.E. 1115 Lakemont Dr. Baton Rouge, LA 70816	Wade J. Labat, P.E. P.O. Box 227 Geismar, LA 70734	John K. Laws, Jr., P.E. 439 N. Jefferson Port Allen, LA 70767	Daniel J. Lorio, III, P.E. 2304 Hiawatha Dr. Baton Rouge, LA 70802
Miller W. Kerr, P.E. 13622 House of Lancaster St. Baton Rouge, LA 70816	Rohan B. Lafleur, P.E. 11522 Willow Oak Ave. Baton Rouge, LA 70815	Maxwell A. Lea, P.E. 3970 Hundred Oaks Ave. Baton Rouge, LA 70808	James C. Lorio, P.E. 9821 Joor Rd. Baton Rouge, LA 70811
Angil K. Khare, P.E. 2027 Palmwood Baton Rouge, LA 70816	H. C. Lalumandier, P.E. P.O. Box 66402 Baton Rouge, LA 70816	Harrison C. Leak, Jr., P.E. 10377 Goodwood Blvd. Baton Rouge, LA 70815	William A. Loubiere, P.E. 312 Hynes Dr. Plaquemine, LA 70764
Bolden L. Kinchen, Jr., P.E. 14446 Lovett Rd. Baton Rouge, LA 70805	Henry C. Lalumandier, Jr. 5655 Vicksburg Baton Rouge, LA 70816	Larry A. Leblanc, P.E. 1454 McMichael Dr. Baton Rouge, LA 70815	Alfred J. Loup, Jr., P.E. 536 Thornwood Dr. Baton Rouge, LA 70806
J. D. Kinchen, P.E. 1420 Casa Loma Dr. Baton Rouge, LA 70815	Siuwah Lam, P.E. 327 Shelby Drive Baton Rouge, LA 70815	Richard J. Leblanc, P.E. 8846 Wakefield Ave. Baton Rouge, LA 70806	John L. Lowery P.O. Box 14624 Baton Rouge, LA 70808
John S. King, P.E. 18644 Jefferson Hwy. Baton Rouge, LA 70816	Bob G. Lamb, P.E. P.O. Box 15431 Baton Rouge, LA 70815	William J. Leblanc, P.E. 2223 Quail Run Dr., Suite F Baton Rouge, LA 70808	Paul S. Lyders 9725 Mint Dr. Baton Rouge, LA 70809
Bobby J. Kiper, P.E. 6713 Chaparral Greenwell Springs, LA 70739	Paul A. Lambert, Jr. P.O. Drawer O St. Francisville, LA 70775	John E. Lee, P.E. 13343 East Parnell Ave. Baton Rouge, LA 70815	Charles F. Mackey P.O. Box 629 Plaquemine, LA 70764
Horace O. Kippels, P.E. 11724 Millburn Dr. Baton Rouge, LA 70815	Doris A. Lambertz 156 McDonald St. Baton Rouge, LA 70808	Felix B. Leeton, P.E. 440 N. Foster Baton Rouge, LA 70806	Mary A. Madden 1350 Bob Pettitt Blvd. #2 Baton Rouge, LA 70808
Byron C. Kistler, P.E. 1486 Havenwood Dr. Baton Rouge, LA 70815	J. B. Lancaster, Jr., P.E. 808 E. Main New Roads, LA 70760	Victor J. Lefevre P.O. Box 14697 Baton Rouge, LA 70808	James D. Maderakis, P.E. 532 Ponderosa St. Baton Rouge, LA 70815
Nels R. Kjeldsen, P.E. 1430 Montgomery Dr. Baton Rouge, LA 70815	George A. Landry, P.E. 1643 Tara Blvd. Baton Rouge, LA 70806	Benjamin Leigh 3464 Maderia Dr. Baton Rouge, LA 70810	Leland S. Major 4511 Highland Road Baton Rouge, LA 70808
John J. Klimavicz, P.E. P.O. Box 629 Plaquemine, LA 70764	Windom T. Landry 2638 S. Sherwood Forest Blvd. Baton Rouge, LA 70816	Donald M. Leinweber, P.E. 11087 Mollylea Dr. Baton Rouge, LA 70815	Patrick J. Malloy 1595 College Dr. #3 Baton Rouge, LA 70808
Norval P. Knapp, P.E. 9867 W. Tams Baton Rouge, LA 70815	William H. Lane, P.E. P.O. Box 66377 Baton Rouge, LA 70896	Raoul L. Levy, P.E. 422 Colonial Dr. Baton Rouge, LA 70806	Bernard F. Maloy 1232 Quail Hollow Ave. Baton Rouge, LA 70810
Frank H. Koger, Jr., P.E. 5644 S. Pollard Pkwy. Baton Rouge, LA 70808	John E. Langley, P.E. 1812 Ingleside Drive Baton Rouge, LA 70808	Chingchang E. Li, P.E. 426 Carriage Way Baton Rouge, LA 70808	Dr. L. Mann, Jr., P.E. LSU Dept. of Industrial Eng. Baton Rouge, LA 70803
Paul C. Koons, Jr., P.E. 4869 Highland Rd. Baton Rouge, LA 70808	Gerard W. Langlois, P.E. 1534 Turret Drive Baton Rouge, LA 70815	Jose E. Lima, P.E. 3849 Plaza Tower Dr. Baton Rouge, LA 70816	H. H. Manner, Jr. 6277 Jefferson Hwy. Baton Rouge, LA 70806
F. B. Kramer, Jr., P.E. 422 Colonial Dr. Baton Rouge, LA 70806	Frank T. Lanier P.O. Box 693 Baton Rouge, LA 70821	Domenick R. Linarello, P.E. 792 Havenwood Baton Rouge, LA 70815	Thomas A. Manning, Jr., P.E. 430 Rodney Lane Baton Rouge, LA 70808
Glen L. Kreidler, P.E. 10920 Airline Hwy. #40 Baton Rouge, LA 70809	Douglas F. Latimer, P.E. 1974 Ramsey Dr. Baton Rouge, LA 70808	Bruce A. Lind, P.E. 13835 Huntley Ave. Baton Rouge, LA 70805	Wayland P. Marcombe, P.E. 1623 Main St. Baton Rouge, LA 70802
Alan D. Krouse, P.E. 10037 Buttercup Dr. Baton Rouge, LA 70809	Philip Z. Lavoie Rt. 4 Box 149 Prairieville, LA 70769	Ronald C. Lipham 3801 Plaza Tower Drive Baton Rouge, LA 70816	Hugo A. Marrero, P.E. 440 N. Foster Dr. Baton Rouge, LA 70806
Roy C. Kuyrkendall, P.E. 16158 Chickamauga Ave. Baton Rouge, LA 70816	Lawrence J. Law, P.E. 1728 Longview Dr. Baton Rouge, LA 70806	John B. Lo, P.E. 12579 Warwick Ave. Baton Rouge, LA 70815	Bruce A. Martin, P.E. 12630 Warwick Ave. Baton Rouge, LA 70815

Joseph D. Martinez, P.E.
P.O. Drawer JD University Sta.
Baton Rouge, LA 70893

John S. Matherne, P.E.
428 So. Locksley
Baton Rouge, LA 70815

Russell A. Matherne, P.E.
P.O. Box 14117
Baton Rouge, LA 70808

G. F. Matthes, P.E.
4325 Oxford Ave.
Baton Rouge, LA 70808

Richard A. Matula, P.E.
College of Engineering LSU
Baton Rouge, LA 70803

John I. McCain, P.E.
195 E. Airport Ave.
Baton Rouge, LA 70806

John T. McCain, P.E.
195 E. Airport Ave.
Baton Rouge, LA 70806

Marvin McCarty
5010 Bluebell Dr.
Baton Rouge, LA 70808

Michael P. McCaughey, P.E.
1235 East River Oaks
Baton Rouge, LA 70815

Edwin A. McClanahan, P.E.
P.O. Box 20129
Baton Rouge, LA 70893

Linda M. McConnell
P.O. Box 267
Baton Rouge, LA 70821

David M. McCubbin
315 W. Parker Blvd.
Baton Rouge, LA 70808

Murray L. McCullough
1034 Boreas Dr.
Baton Rouge, LA 70816

Bruce A. McGill, P.E.
4440 North Blvd.
Baton Rouge, LA 70815

Patrick L. McGowan
1855 Mason Ave.
Baton Rouge, LA 70805

Larry A. McKee, P.E.
1464 Seaboard Dr.
Baton Rouge, LA 70810

M. M. McKell, P.E.
7618 Frontier Dr.
Greenwell Springs, LA 70739

Robert W. McKenzie, P.E.
5647 Hyacinth Ave.
Baton Rouge, LA 70808

Edward McLaughlin
LSU Dept. Chem. Eng.
Baton Rouge, LA 70803

Rudolph McLellan
5615 Corporate Blvd.
Baton Rouge, LA 70808

A. J. McPhate, P.E.
6618 Highland Rd.
Baton Rouge, LA 70808

A. D. McRae, P.E.
P.O. Box 45162
Baton Rouge, LA 70895

James D. Meares
1454 Chippenham Dr.
Baton Rouge, LA 70808

Conrad F. Meijer, P.E.
3275 Lakeshore Dr.
Baton Rouge, LA 70808

John A. Melton, P.E.
P.O. Box 1415
Baton Rouge, LA 70821

Kenneth P. Messer
4440 North Blvd.
Baton Rouge, LA 70806

William Metrailler
8580 Hammond Highway
Baton Rouge, LA 70808

Edward R. Metz, P.E.
6648 Sheffield Ave.
Baton Rouge, LA 70806

Steven A. Metzger, P.E.
16509 Abshire Ave.
Baton Rouge, LA 70816

Charles J. Meyer, P.E.
233 E. Bolivar Dr.
Baton Rouge, LA 70815

J. B. Meyer, Jr., P.E.
11722 Fairhaven Dr.
Baton Rouge, LA 70815

Albert F. Micale, P.E.
3724 Lake Laberge
Baton Rouge, LA 70816

G. W. Miller, P.E.
12226 Fairhaven
Baton Rouge, LA 70815

Otis O. Miller, P.E.
9340 Ventura Drive
Baton Rouge, LA 70815

Percy H. Miller, P.E.
LSU Mechanical Eng.—CEBA
Baton Rouge, LA 70803

W. J. Miller, P.E.
955 McClung St.
Baton Rouge, LA 70802

Lewis E. Miremont, P.E.
855 North Blvd.
Baton Rouge, LA 70802

Thomas C. Mitchell, P.E.
6220 Audusson Dr.
Greenwell Springs, LA 70739

J. C. Monroe, P.E.
Dow Chemical—Highway 1
Plaquemine, LA 70764

W. C. Monroe, P.E.
10466 Airline Hwy. Suite E
Baton Rouge, LA 70808

Antonio P. Montealegre, P.E.
2146 Capri Dr.
Baton Rouge, LA 70815

Lamon L. Moody, Jr., P.E.
P.O. Box 700
Baker, LA 70714

Robert R. Moody, P.E.
445 Stockton Dr.
Baton Rouge, LA 70815

James H. Moore, Jr.
5365 Halsey
Baton Rouge, LA 70811

Robert W. Moore
P.O. Box 23
St. Gabriel, LA 70776

Karl L. Morgan
P.O. Box 463
St. Francisville, LA 70775

Mark L. Morgan
822 Neosho Ave.
Baton Rouge, LA 70802

R. D. Morgan, P.E.
345 Wylie Dr.
Baton Rouge, LA 70808

Gary L. Morris, P.E.
5737 Decatur Dr.
Baton Rouge, LA 70816

Clovis L. Morrison, P.E.
3117 Westerwood Dr.
Baton Rouge, LA 70816

Stephen M. Morrisette
8956 Tallyho Ave.
Baton Rouge, LA 70806

Phillip A. Mourot, P.E.
Rt. 5 Box HO-306
Prairieville, LA 70769

Maurice W. Moyer, P.E.
P.O. Box 241
Baton Rouge, LA 70821

Ronald A. Muller, P.E.
1467 Stuart Ave.
Baton Rouge, LA 70808

C. Martin Munley, Jr.
9775 Diane Ave.
Baton Rouge, LA 70815

J. A. Nadler, Jr., P.E.
P.O. Box 359
Plaquemine, LA 70764

Babak Naghavi
4902 Alvin Dark Dr.
Baton Rouge, LA 70808

Koorosh K. Naghshineh
1222 Bob Pettit Blvd. #7
Baton Rouge, LA 70808

Steve A. Nasca, P.E.
3945 Hundred Oaks Ave.
Baton Rouge, LA 70808

Andrew A. Navarre, P.E.
1342 Knollhaven
Baton Rouge, LA 70810

J. F. Naylor, Jr., P.E.
P.O. Box 15866
Baton Rouge, LA 70895

Gordon E. Nelson
2221 Sherwood Meadow Apt. D
Baton Rouge, LA 70816

Wyly D. Nelson
1255 Aberdeen Ave.
Baton Rouge, LA 70808

Daniel Nesbit, Jr. P.E.
12636 Cyndal Ave.
Baton Rouge, LA 70816

Quyen V. Nguyen
10550 Airline Hwy.
Baton Rouge, LA 70816

Robert M. Nolan
1225 W. Chimes
Baton Rouge, LA 70802

Herbert D. Nowlin, P.E.
196 Apt. Court Dr. #155
Baton Rouge, LA 70806

Frank M. O'Quinn, P.E.
130 Albert Hart Dr.
Baton Rouge, LA 70808

Harold L. Odom, P.E.
P.O. Box 267
Baton Rouge, LA 70821

Leo M. Odom, P.E.
P.O. Box 267
Baton Rouge, LA 70821

Roy H. Odom, P.E.
P.O. Box 267
Baton Rouge, LA 70821

H. Nash Ogden, P.E.
308 Cornell Ave.
Baton Rouge, LA 70808

Brenda J. Olson
2847 Dena Lynn Dr.
Baton Rouge, LA 70816

Carl Osterthaler, P.E.
15214 Seven Pines Ave.
Baton Rouge, LA 70816

R. C. Overall
Box 14715
Baton Rouge, LA 70808

Robert C. Overall, Jr., P.E.
P.O. Box 14715
Baton Rouge, LA 70808

Eugene H. Owen, P.E. P.O. Box 66396 Baton Rouge, LA 70806	Charles J. Phillips, P.E. 855 Audubon Ave. Baton Rouge, LA 70806	Stan J. Prutz 2762 Continental Dr. #103 Baton Rouge, LA 70808	John E. Ritter, P.E. 11548 Sheraton Dr. Baton Rouge, LA 70815
Benjamin S. Pace, P.E. 5020 E. Bluebell Dr. Baton Rouge, LA 70808	Richard E. Phillips, P.E. 451 Florida St. Baton Rouge, LA 70801	Charles S. Pugsley, Jr. 4473 Whitehaven St. Baton Rouge, LA 70808	Kenneth J. Roark, P.E. 9107 Interline Ave. Baton Rouge, LA 70809
Paul H. Paige 5810 Frederick Baton Rouge, LA 70816	Patrick R. Pickens, P.E. P.O. Box 66641 Baton Rouge, LA 70806	James A. Ragland, P.E. 536 LSU Ave. Baton Rouge, LA 70808	Bob N. Robards, P.E. 10537 Rondo Ave. Baton Rouge, LA 70815
Mrutyunjay Pani, P.E. 4058 Rocky Mountain Dr. Baton Rouge, LA 70814	Ronald B. Pierce 7502 Foster Dr. Baton Rouge, LA 70816	Ambrose K. Ramsey, Jr., P.E. 5240 Heritage Dr. Baton Rouge, LA 70808	Richard C. Robert, P.E. 750 Dartmoor Dr. Baton Rouge, LA 70815
Gary P. Parks, P.E. 3529 Sessions Baton Rouge, LA 70816	Ralph W. Pike, P.E. 6053 Hibiscus Dr. Baton Rouge, LA 70808	Thomas M. Randolph, P.E. 757 Castle Kirk Drive Baton Rouge, LA 70808	Bernard A. Roberts 11888 Longridge Dr. #2106 Baton Rouge, LA 70816
Brandon G. Parlange, P.E. P.O. Box 217 Baton Rouge, LA 70821	Jack L. Pillow, P.E. 801 N. 9th St. Baton Rouge, LA 70802	A. B. Ratcliff, Jr., P.E. 1224 Lee Dr. Baton Rouge, LA 70808	Estill G. Roberts, Jr., P.E. 5012 McCormick Ave. Greenwell Springs, LA 70739
Madhusudan C. Patel, P.E. P.O. Box 15728 Baton Rouge, LA 70895	Raymond E. Pillow, P.E. 1561 Sherwood Forest Blvd. Baton Rouge, LA 70815	Dalton G. Rea, Jr., P.E. 7625 Menlo Dr. Baton Rouge, LA 70808	George S. Roberts, P.E. 1907 E. Magna Carta Baton Rouge, LA 70815
Daryl B. Patin, P.E. Box 1510 Jarreau, LA 70749	David W. Pino, P.E. 12032 Nile St. Baton Rouge, LA 70815	James W. Rector, P.E. 1328 Ross Ave. Baton Rouge, LA 70808	John T. Roberts, P.E. 6636 Sheffield Ave. Baton Rouge, LA 70806
Curtis G. Patterson, P.E. P.O. Box 44155 Capitol Station Baton Rouge, LA 70804	Thomas E. Pittman, P.E. 2218 Godfrey Dr. Baton Rouge, LA 70816	George K. Reech, P.E. 844 Havenwood Dr. Baton Rouge, LA 70815	Richard B. Robertson, P.E. 10305 Airline Hwy. Baton Rouge, LA 70895
Thomas L. Payment, P.E. 3125 Caroljack Dr. Baton Rouge, LA 70816	Ray A. Polito, P.E. 4318 Kilkenny Dr. Baton Rouge, LA 70814	Marion B. Reed, P.E. 388 Bancroft Way Baton Rouge, LA 70808	Carl J. Robichaux 5192 Byron Baton Rouge, LA 70805
Dudley J. Payton, P.E. 1038 Oak Hills Pkwy. Baton Rouge, LA 70810	Thomas P. Poole 8212 Kelwood Ave. Baton Rouge, LA 70806	Robert N. Reed, P.E. 7018 Plantation Ave. Denham Springs, LA 70726	Ronald J. Rodi 1957 Cloverdale Ave. Baton Rouge, LA 70808
Robert I. Peairs, P.E. P.O. Box 4807 Baton Rouge, LA 70806	Wiley D. Poole, P.E. 703 N. Coventry Dr. Baton Rouge, LA 70808	Joe G. Richard, Jr., P.E. 1068 Colonial Dr. Baton Rouge, LA 70806	Peter N. Rogas 847 America Baton Rouge, LA 70802
T. Ellis Peak, Jr. 7421 Rienzi Blvd. Baton Rouge, LA 70809	Power Poon, P.E. 4413 Lake Sherwood Ave., East Baton Rouge, LA 70816	John D. Richard 5445 Melrose Blvd. Baton Rouge, LA 70806	Don R. Rogillio 869 Tifton Baton Rouge, LA 70815
James A. Penland, P.E. 5665 Prescott Rd. Baton Rouge, LA 70805	James C. Porter, P.E. 2608 Terrace Ave. Baton Rouge, LA 70806	Edward C. Richards, Jr., P.E. 3420 San Felipe Dr. Baton Rouge, LA 70809	Joseph V. Roy, P.E. 1350 Bon Durant Baton Rouge, LA 70806
Robert R. Percy 1934 Longwood Dr. Baton Rouge, LA 70808	Truman E. Pounds, P.E. 10374 Goodwood Blvd. Baton Rouge, LA 70815	Harry D. Richardson, P.E. 200 Leeward Dr. Baton Rouge, LA 70808	Glenn D. Rucker, P.E. Box 629 Plaquemine, LA 70764
A. J. Perrault, P.E. 1968 Dallas Dr. Baton Rouge, LA 70806	Bernard S. Pressburg, P.E. 5937 Clematis Dr. Baton Rouge, LA 70808	Robert L. Richardson, P.E. 12204 Lake Sherwood Ave., N. Baton Rouge, LA 70816	Bernard L. Ruckstuhl, P.E. 12739 E. Robin Hood Dr. Baton Rouge, LA 70815
Kenneth A. Perret, P.E. 10621 Rondo Ave. Baton Rouge, LA 70815	Jerome L. Price 8866 Wakefield Ave. Baton Rouge, LA 70806	Roger W. Richardson, P.E. 1763 Country Club Dr. Baton Rouge, LA 70808	Donald R. Rushing, P.E. P.O. Box 15648 Baton Rouge, LA 70895
Shepard F. Perrin, Jr., P.E. 7465 Boyce Dr. Baton Rouge, LA 70809	Roy L. Prisock, P.E. P.O. Box 578 Zachary, LA 70791	Robert P. Richmond, P.E. 1758 Chateau Court Baton Rouge, LA 70815	Hollis B. Rushing P.O. Box 66377 Baton Rouge, LA 70896
Raymond L. Phebus, P.E. P.O. Box 997 St. Francisville, LA 70775	Billy R. Prochaska, P.E. 9935 Hillyard Ave. Baton Rouge, LA 70809	David L. Ritter, P.E. 12931 Deerpath Way Baton Rouge, LA 70816	Filomeno B. Salazar 12135 South Shannon Dr. Baton Rouge, LA 70815

Randal D. Sanders
6477 Celia Ave.
Baton Rouge, LA 70811

Russell J. Scharlin, P.E.
12556 Parkknoll Ave.
Baton Rouge, LA 70816

Thomas B. Schexnayder, P.E.
1219 Briarhurst
Baton Rouge, LA 70810

Louis C. Schilling, P.E.
11460 Mollylea Dr.
Baton Rouge, LA 70815

Hermann Schluter, Jr., P.E.
P.O. Box 551
Baton Rouge, LA 70815

Ralph V. Schmidt, P.E.
P.O. Box 3558
Baton Rouge, LA 70821

Don R. Schmieder, P.E.
8300 Old Hammond Hwy.
Baton Rouge, LA 70809

R. H. Schneider, P.E.
P.O. Box 80104
Baton Rouge, LA 70898

Henry K. Schott, P.E.
5721 South Pollard Parkway
Baton Rouge, LA 70808

Michael A. Schulz, P.E.
11010 Highland Rd.
Baton Rouge, LA 70810

Roger K. Seals, P.E.
3502 CEBA LSU
Baton Rouge, LA 70803

Leonard H. Sedlin, P.E.
12897 Goodwood Blvd.
Baton Rouge, LA 70815

Miles C. Seifert
4421 Downing Dr.
Baton Rouge, LA 70809

Adrian L. Sepeda, P.E.
3167 Lake Forest Park Ave.
Baton Rouge, LA 70816

Thomas H. Setze, P.E.
12661 Lockhaven Ave.
Baton Rouge, LA 70815

Charles E. Severance, P.E.
355 Albert Hart Dr.
Baton Rouge, LA 70808

Francis C. Shaffer, P.E.
4174 Downing Dr.
Baton Rouge, LA 70809

Shashikant C. Shah, P.E.
P.O. Box 44245
Baton Rouge, LA 70804

Glenn G. Shaheen
504 Lee Dr.
Donaldsonville, LA 70346

G. B. Shearon, P.E.
1082 Havenwood Dr.
Baton Rouge, LA 70815

Roy C. Shehane, P.E.
Rt. 4, Box 400
Zachary, LA 70791

Michael A. Sherrill
10555 Airline Hwy.
Baton Rouge, LA 70816

Wendell P. Shiflett, P.E.
824 Heather Dr.
Baton Rouge, LA 70815

James A. Shoriak
Rt. 4, Box 342
Prairieville, LA 70769

Richard Shread
7225 Government
Baton Rouge, LA 70806

Harold L. Sicard, P.E.
744 Marilyn Dr.
Baton Rouge, LA 70815

Edward H. Silver, P.E.
13712 Leighwood Ave.
Baton Rouge, LA 70815

Walter H. Silver, P.E.
1167 Longwood
Baton Rouge, LA 70806

Emmitt L. Simmons, P.E.
9654 Mesa Verde Ave.
Baton Rouge, LA 70814

James E. Simmons
6446 Chaucer Dr.
Baton Rouge, LA 70816

Robert L. Simmons, P.E.
16035 Confederate Dr.
Baton Rouge, LA 70816

Kirk J. Simoneaux
9754 Mint Ave.
Baton Rouge, LA 70809

Calvin L. Simpson
904 Audubon Ave.
Baton Rouge, LA 70806

Melvin M. Sinquefield
4377 Jefferson Woods
Baton Rouge, LA 70809

Robert J. Skidmore, P.E.
440 N. Foster
Baton Rouge, LA 70806

Guy W. Sledge, P.E.
16809 Bonham Ave.
Baton Rouge, LA 70816

Raymond Sloss, P.E.
424 Highland Park Dr.
Baton Rouge, LA 70808

Alfred E. Smith, P.E.
7381 Woodstock Dr.
Baton Rouge, LA 70809

Robert C. Smith
4617 Tartan Dr.
Baton Rouge, LA 70816

William E. Snow, Jr., P.E.
564 Sherwood Forest Blvd.
Baton Rouge, LA 70815

Gregory J. Snyder
2232 Bernwood
Baton Rouge, LA 70816

Thomas A. Snyder, P.E.
P.O. Box 15728
Baton Rouge, LA 70895

William F. Snyder, P.E.
P.O. Box 14327
Baton Rouge, LA 70898

Thomas C. Spangler
Rt. 1, Box 117-B
Denham Springs, LA 70726

Charles R. St. Romain, P.E.
Box 722
Jarreau, LA 70749

George O. Starke, P.E.
11913 Lake Lery
Baton Rouge, LA 70816

Robert J. Stelly, P.E.
2208 Sprucewood Dr.
Baton Rouge, LA 70816

George F. Stevenson, P.E.
2182 Stanford Ave.
Baton Rouge, LA 70808

Easton Stewart, P.E.
6717 Goya Ave.
Baton Rouge, LA 70806

John H. Stinson, III, P.E.
8125 Wimbledon Ave.
Baton Rouge, LA 70810

Dennis R. Stipe, P.E.
LSU P.O. Drawer E
Baton Rouge, LA 70893

Alan Stout
8857 Darby Ave.
Baton Rouge, LA 70806

George R. Stucker, Jr., P.E.
8335 Kelwood Ave.
Baton Rouge, LA 70806

Winifred L. Summers, Jr., P.E.
346 Wilton Dr.
Baton Rouge, LA 70815

Mantz C. Sussky, P.E.
12242 Goodwood Blvd.
Baton Rouge, LA 70815

George A. Swan, III, P.E.
P.O. Box 251
Baton Rouge, LA 70821

Benny J. Swindler, P.E.
274 N. Ardenwood Dr.
Baton Rouge, LA 70806

John F. Szabo, P.E.
8525 S. Essen Hgts. Cts.
Baton Rouge, LA 70809

John H. Tabony, Jr., P.E.
11775 Glenhaven Ave.
Baton Rouge, LA 70815

Jose R. Tarajano, P.E.
19423 Deer Park Ave.
Baton Rouge, LA 70816

Magnus A. Tassin, Jr., P.E.
9181 Interline Suite 210B
Baton Rouge, LA 70809

P. Timothy Tate, P.E.
1759 Virgil St.
Baton Rouge, LA 70808

Wendell S. Taylor, Jr., P.E.
1234 Ashland Dr.
Baton Rouge, LA 70806

Guy E. Templet, P.E.
1120 Belvedere Dr.
Baton Rouge, LA 70808

Samuel C. Terry, P.E.
2762 Continental
Baton Rouge, LA 70808

John B. Tessier, P.E.
346 Seyburn
Baton Rouge, LA 70808

A. R. Theis, P.E.
9413 W. Tampa Dr.
Baton Rouge, LA 70815

Alex Theriot, Jr., P.E.
P.O. Box 85
Denham Springs, LA 70726

Frank Y. Thigpen, P.E.
2147 Government St.
Baton Rouge, LA 70806

Hunter C. Thom
1655 Rue Crozat
Baton Rouge, LA 70810

Carl H. Thomas, P.E.
5845 Hyacinth Ave.
Baton Rouge, LA 70808

K. J. Thomas, P.E.
8105 Franwood Dr.
Baton Rouge, LA 70806

Michael D. Thomas
5845 Hyacinth Ave.
Baton Rouge, LA 70808

Robert L. Thoms, P.E.
7625 N. Coventry Circle
Baton Rouge, LA 70808

Keith D. Timbre
16550 Highland Rd.
Baton Rouge, LA 70810

Eugene F. Tims, P.E.
4840 Newcomb Dr.
Baton Rouge, LA 70808

Daniel J. Tobey, P.E.
P.O. Box 15728
Baton Rouge, LA 70895

Victor H. Tompkins, P.E.
12974 Woodshire
Baton Rouge, LA 70816

Charles R. Toney
12731 King James
Baton Rouge, LA 70810

Mark H. Toney, P.E.
1075 Executive Park Dr., Ste. 14
Baton Rouge, LA 70806

Ronald J. Toomer, P.E.
P.O. Box 15274
Baton Rouge, LA 70815

Charles R. Totty, P.E.
13235 Berwick Ave.
Baton Rouge, LA 70815

Edward V. Trahan, Jr.
2644 S. Sherwood Forest Ste. 200
Baton Rouge, LA 70816

Mehmet T. Tumay, P.E.
LSU Dept. of Civil Engineering
Baton Rouge, LA 70803

Clyde Turner, Jr., P.E.
301 Riverview Dr.
Baton Rouge, LA 70816

Humphreys T. Turner, P.E.
LSU Dept. of Civil Engineering
Baton Rouge, LA 70803

William A. Tyser, P.E.
204 E. Oak St.
Amite, LA 70422

Michael P. Underwood, P.E.
P.O. Box 66424
Baton Rouge, LA 70896

Ronald J. Usie
3825 Chris Dr.
Addis, LA 70710

Herman A. Vanhille, P.E.
15336 Pisces Ave.
Pride, LA 70770

Lynwood Vaughn, P.E.
4452 Cypress St.
Baton Rouge, LA 70808

Earl M. Vicknair, P.E.
9131 W. Darryl Pkwy.
Baton Rouge, LA 70815

Fred W. Vosloh, III, P.E.
15533 Confederate Ave.
Baton Rouge, LA 70816

Roy A. Waggenspack, P.E.
P.O. Box 66396
Baton Rouge, LA 70896

John D. Walker, P.E.
P.O. Box 45212 Dept. 497
Baton Rouge, LA 70895

Charles W. Wall
1263 Meadow Lea
Baton Rouge, LA 70808

Mark T. Walsh, P.E.
10950 Darryl Dr. #181
Baton Rouge, LA 70815

Stanley A. Walsh
12463 Warwick Ave.
Baton Rouge, LA 70815

Jack B. Waltrip, P.E.
12557 Molly Lea Dr.
Baton Rouge, LA 70815

Earl W. Wardlaw, Jr., P.E.
4846 Beech Harbor Ave.
Baton Rouge, LA 70816

James C. Webb, P.E.
4441 Downing Dr.
Baton Rouge, LA 70809

D. J. Webre, Jr., P.E.
733 South Tinley Dr.
Baton Rouge, LA 70815

Kevin R. Wegener, P.E.
9546 Vienna
Baton Rouge, LA 70810

David T. Wells
921 Camelia Ave.
Baton Rouge, LA 70806

David M. Wetzel
LSU Chem. Eng. Dept.
Baton Rouge, LA 70803

Charles B. Wheat, Jr., P.E.
12676 Parnell Dr.
Baton Rouge, LA 70815

Gerald D. Whitehouse, P.E.
8617 Perkins Rd.
Baton Rouge, LA 70810

John C. Wiese, P.E.
1925 Chopin Dr.
Baton Rouge, LA 70806

Warren J. Wilder
P.O. Box 1549
Baton Rouge, LA 70821

Bert Wilkins, Jr.
10341 Parkview Dr.
Baton Rouge, LA 70815

L. V. Willey, P.E.
424 Centenary Dr.
Baton Rouge, LA 70808

Edward G. Williams
651 Laurel St.
Baton Rouge, LA 70802

Gerald C. Williams, P.E.
1882 Cedardale Ave.
Baton Rouge, LA 70808

Max L. Williams, P.E.
2716 Purvis
Baton Rouge, LA 70809

Harold R. Williamson, P.E.
12246 Queensbury Ave.
Baton Rouge, LA 70815

Gordon B. Wilson
P.O. Box 433
New Roads, LA 70760

Sean C. Wilson
4181 Jefferson Woods
Baton Rouge, LA 70809

Malcolm V. Windham, P.E.
P.O. Box 71
Denham Springs, LA 70726

J. Bertin Wintz
1991 Hollydale
Baton Rouge, LA 70808

William A. Wintz, Jr., P.E.
1991 Hollydale
Baton Rouge, LA 70808

Richard Y. Wisenbaker
16015 Malvern Hill Ave.
Baton Rouge, LA 70816

BAYOU—CHAPTER 3

President—Dale C. Thompson, P.E. Office Phone 504-876-6187
Home Phone 504-876-5630

1st Vice President—Michael S. Lane Office Phone 504-868-5050
Home Phone 504-872-9330

2nd Vice President—Gregory W. Broussard, EIT Office Phone 504-868-5050
Home Phone 504-868-5255

3rd Vice President—Jerry Kilby, P.E. Office Phone 504-876-0609
Home Phone 504-876-2915

Secretary-Treasurer—Stephanie Bernard Office Phone 504-632-5786
Home Phone 504-632-2355

Ray L. Adams
105 E. Oaklawn Dr.
Thibodaux, LA 70301

Walter A. Albert
209 Marshall Dr.
Houma, LA 70360

Virgil B. Allen
315 Pershing St.
Morgan City, LA 70380

Frank H. Ashby, Jr.
Rt. 2 Box 642
Morgan City, LA 70380

Rudy R. Aucoin, P.E.
Box 205 Dularge Rte.
Houma, LA 70360

J. A. Badeaux, Jr., P.E.
P.O. Box 1056
Thibodaux, LA 70301

M. Craig Bailey
P.O. Box 2768
Houma, LA 70361

Victor J. Bailliet, P.E.
304 Amis St.
Thibodaux, LA 70301

James R. Baker, Jr., P.E.
Rt. 1, Box 1010, St. Agnes Dr.
Bourg, LA 70343

Frank J. Basile, P.E.
P.O. Box 5001
Houma, LA 70361

Claude M. Begnaud, P.E.
111 Del Rey Blvd.
Houma, LA 70360

Edgar P. Benoit, P.E.
301 Nederland Dr.
Houma, LA 70360

Jerome P. Benoit
1719 Oakley St. Apt. 7
Thibodaux, LA 70301

Chris J. Berger
1825 Ridgfield Ave. #3
Thibodaux, LA 70301

George D. Bergeron, Jr.
P.O. Box 1203
Thibodaux, LA 70301

J. David Bergeron, P.E.
P.O. Box 1203
Thibodaux, LA 70301

Stephanie A. Bernard
309 W. 111th St.
Cut Off, LA 70345

Henry A. Boese, P.E.
503 Douglas Dr.
Houma, LA 70360

Gerard Boll, Jr.
308 Lydia St.
Gray, LA 70359

Richard N. Bollinger, P.E.
P.O. Box 250
Lockport, LA 70374

Kenneth F. Boudreaux, P.E.
P.O. Box 509
Houma, LA 70360

Raymond J. Boudreaux, Jr., P.E.
Rt. 5, 209 Bayou Bend
Houma, LA 70360

Ronald J. Boudreaux, P.E.
621 Gaynell Dr.
Houma, LA 70360

Philip J. Bourque
1009 Palm St.
Morgan City, LA 70380

Cleon E. Bridges
601 San Antonio Bld.
Houma, LA 70360

Frank Bridges, III, P.E.
3038 W. Park, Suite 202
Houma, LA 70360

J. M. Bridges, P.E.
1043 Harrison St.
Thibodaux, LA 70301

Gregory W. Broussard
214 St. Francis
Houma, LA 70360

Leon A. Broussard
220 Monarch Dr. #H32
Houma, LA 70360

Robert J. Browning, Jr., P.E.
106 Funderburk
Houma, LA 70360

Jeffrey B. Burgan
P.O. Box 5096
Houma, LA 70361

Mario P. Caballero, P.E.
207 Marshall Dr.
Houma, LA 70360

Russell J. Callahan
P.O. Box 7036
Houma, LA 70360

Charles M. Camp
P.O. Box 2266
Houma, LA 70360

Lee J. Castagnos, Jr., P.E.
1211 Lafayette St.
Houma, LA 70360

Carlos V. Castrillo
184 New Orleans Blvd.
Houma, LA 70360

Jessie J. Cedotal
Rt. 3, Box 947
Raceland, LA 70394

Joseph J. Cefalu, P.E.
808 Florence St.
Morgan City, LA 70380

Earl P. Champagne, P.E.
420 Carthage Dr.
Houma, LA 70360

Kerry J. Chauvin
2007 Mary Hughes Dr.
Houma, LA 70360

Ronald P. Chiasson
201 Chantilly Dr.
Houma, LA 70360

Jim W. Clark
Hwy. 659, W. Park,
P.O. Box 935
Houma, LA 70361

Patrick J. Cooper
3218 Glenmore Ave.
Houma, LA 70360

Perry J. Culpepper
P.O. Box 188
Morgan City, LA 70381

Joe C. Danos
P.O. Box 7096
Houma, LA 70361

Gregory L. Davis
P.O. Box 1219
Morgan City, LA 70381

Kevin B. Davis
1402 W. Camellia
Thibodaux, LA 70301

Stephen K. Davis
P.O. Box 1297
Thibodaux, LA 70302

Jeff Deblieux, P.E.
208 Foster Dr.
Houma, LA 70360

Arthur A. Defraites, Jr., P.E.
P.O. Box 327
Houma, LA 70360

John M. Defraites
1700 Grand Caillou Rd.
Houma, LA 70360

Randy J. Dehart
607 Louisa
Morgan City, LA 70380

Jerry L. Dickson, P.E.
P.O. Box 8036
Houma, LA 70361

Daniel J. Duplantis
P.O. Box 2664
Morgan City, LA 70380

Larry J. Dupre
P.O. Box 10096
Houma, LA 70360

Russel N. Elliott, P.E.
219 Denning Dr.
Houma, LA 70360

Ola H. Elverum
Box 23
Morgan City, LA 70380

William D. Ergenbright, P.E.
720 E. Main St., Suite 514
Houma, LA 70360

David E. Ferg, II
1221 6th St. #6D
Morgan City, LA 70380

Allen G. Frost
433 Easy St.
Thibodaux, LA 70301

Ronald A. Galliano
P.O. Box 1089
Morgan City, LA 70380

George O. Gernon
19 Killarney Ct.
Houma, LA 70360

Jacob A. Giardina, P.E.
P.O. Box 968
Thibodaux, LA 70301

David C. Gisclair
203 West III
Cut Off, LA 70345

Ivan Gomez, P.E.
P.O. Box 968
Thibodaux, LA 70301

James E. Goodwin, P.E.
323 Sunset Blvd.
Houma, LA 70360

Tom W. Goyne, P.E.
3218 Lake Palourde Dr.
Morgan City, LA 70380

Glenn D. Gros, P.E.
105 Domingne Ct.
Thibodaux, LA 70301

Ernest J. Grow, Jr.
P.O. Box 7097
Houma, LA 70361

Keith C. Guedry, P.E.
P.O. Box 636
Napoleonville, LA 70390

Albert I. Guidry, Jr.
519 Holiday Dr.
Houma, LA 70360

Albert I. Guidry, P.E.
Rt. 9, 303 Oak Alley
Houma, LA 70360

Raymond J. Guidry
P.O. Box 7097
Houma, LA 70361

James F. Guion, P.E.
508 Summerfield Dr.
Houma, LA 70360

Allen J. Hamilton
1259 E. Main St.
Houma, LA 70360

Andrew J. Hebert, Jr., P.E.
P.O. Box 7036
Houma, LA 70361

Daniel A. Hebert
P.O. Box 6097
Houma, LA 70361

Morris P. Hebert
1710 Havers St.
Houma, LA 70360

Carl E. Heck, Jr.
Box 70
Thibodaux, LA 70301

Carl E. Heck, Sr., P.E.
P.O. Box 70
Thibodaux, LA 70301

David T. Heck, P.E.
P.O. Box 70
Thibodaux, LA 70301

John F. Hoffmann, P.E.
P.O. Box 70
Thibodaux, LA 70301

John A. Hollinshead, P.E.
P.O. Box 565
Houma, LA 70360

Eric A. Huranna
P.O. Drawer 1219
Morgan City, LA 70381

Ray J. Hutchinson, P.E.
130 Glenhill Drive
Houma, LA 70360

Christian D. Jackson, P.E.
304 Pendleton Dr.
Houma, LA 70360

Curtis P. Jackson
P.O. Box 2726
Morgan City, LA 70380

Victor N. Jackson
P.O. Box 946
Houma, LA 70360

Barry W. Johnson
1105 Federal Ave.
Morgan City, LA 70380

Jesse W. Jordan
118 McAllen
Houma, LA 70360

Harry R. Jukes, P.E. 127 Sherwood Dr. Belle Chase, LA 70037	Johnny A. Marino, P.E. P.O. Box 2711 Morgan City, LA 70381	Larry J. Picciola, P.E. Fernwood Apts. #1, P.O. Box 224 Larose, LA 70373	Douglass S. Talbot, II 1005 Ninth St. Houma, LA 70360
Jerry L. Kilby 407 Summerfield Dr. Houma, LA 70360	Donald I. McCullough, P.E. 17 Mary Hughes Court Houma, LA 70360	Marco J. Picciola, P.E. P.O. Box 758 Galliano, LA 70354	Douglass S. Talbot, P.E. 1005 Ninth St. Houma, LA 70360
Ronald J. Konantz 106 Hemphill Dr. Houma, LA 70360	Charles L. McDonald 213 Ziegler Ave. Houma, LA 70360	W. David Pope, III P.O. Box 669 Thibodaux, LA 70302	Harold J. Terracina 501 Brule Guillot Road Thibodaux, LA 70301
Robert F. Lacroix 3510 W. Park Ave. Houma, LA 70360	John L. McKenney, P.E. 90 Bernice Dr. Luling, LA 70070	Herby R. Pourciau, Jr., P.E. P.O. Box 2943 Morgan City, LA 70381	Allen A. Thibodeaux 821 Saadi St. Houma, LA 70360
Barry J. Laiche P.O. Box 7036 Houma, LA 70360	John P. McNamara, P.E. 600 Pendleton Dr. Houma, LA 70360	Kurt M. Prossner, P.E. Belle Meade Court Apt. 5-D Morgan City, LA 70381	Stephen J. Thibodeaux Rt. P.O. Box 9075 Houma, LA 70360
Paul A. Lambert, P.E. 525 Cypress Thibodaux, LA 70301	Stephen P. Melancon, P.E. 160 Presque Isle Houma, LA 70360	Carlos Rivera-Cianchini 220 Monarch Dr. Apt. B 13 Houma, LA 70360	Dale C. Thompson, P.E. P.O. Box 9216 Houma, LA 70361
Michael S. Lane, P.E. 205 S. Moss Dr. Houma, LA 70360	Mark S. Meunier P.O. Box 188 Morgan City, LA 70380	Marc J. Rogers, P.E. P.O. Box 14 Gibson, LA 70356	Troy W. Thompson, P.E. P.O. Box 187 Thibodaux, LA 70301
Kenneth D. Lange, P.E. P.O. Box 188 Morgan City, LA 70380	Floyd E. Milford, Jr., P.E. P.O. Box 6051 Houma, LA 70360	F. E. Roussell, P.E. P.O. Box 174 Luling, LA 70070	Vernon N. Tolar P.O. Box 1697 Houma, LA 70361
Pierre A. Lapeyre P.O. Box 1967 Houma, LA 70360	George D. Moate, P.E. 13 Willowdale Blvd. Luling, LA 70070	Clarence J. Savoie, P.E. P.O. Drawer R Paincourtville, LA 70391	Raymond J. Toups, P.E. 117 Eagle Dr. Raceland, LA 70394
Charles LeBlanc P.O. Box 2768 Houma, LA 70361	John D. Monteiro, P.E. P.O. Box 711, Station 2 Houma, LA 70360	Phil A. Schexnayder 224 Fairlane Dr. Gray, LA 70359	William H. Trosclair, Jr., P.E. 420 Plater Dr. Thibodaux, LA 70301
James J. Lejeune, P.E. 105 Nederland Dr. Houma, LA 70360	John A. Moseley #1 Stone's Throw Dr. Apt. #139 Houma, LA 70360	Louis J. Schober P.O. Box 654 Houma, LA 70361	G. G. Varvaro, P.E. 324 Camelia Dr. Thibodaux, LA 70301
David D. Lemann, P.E. 317-21 Mississippi St. Donaldsonville, LA 70346	Charles W. Myers #2 Wayside Dr. Houma, LA 70361	John N. Sewell 1205 Lafourche Thibodaux, LA 70301	Ernest A. Vicknair, Jr., P.E. P.O. Box 715 Thibodaux, LA 70301
Harold P. Leray, P.E. 706 Eagle Dr. Houma, LA 70360	Alan J. Neil, P.E. 924 Second St. Morgan City, LA 70380	Robert L. Simon, Jr., P.E. 404 Wellington Dr. Houma, LA 70360	Marshall K. Vignes 203 Glenhill Dr. Houma, LA 70360
Brent J. Lirette 505 Nederland Dr. Houma, LA 70360	Emile C. Nelson Rt. 2, Box 226-1 Schriever, LA 70395	John H. Smith P.O. Box 188 Morgan City, LA 70381	Baxter F. Wade, Jr., P.E. 500 School St. Houma, LA 70360
Arthur L. Long, P.E. Rt. 1 Box 259 A Gray, LA 70359	C. L. Olivier, III, P.E. 5 Austin Dr. Houma, LA 70360	Wayne R. Smith, P.E. 107 Plater Court Thibodaux, LA 70301	Robert S. Wadhams, P.E. 2620 Fir St. Morgan City, LA 70380
James D. Lutz P.O. Drawer 1219 Morgan City, 70381	Michael P. Ordogne 1700 Grande Caillou Houma, LA 70360	William C. Smith, P.E. P.O. Box 2266 Houma, LA 70360	Eugene A. Weber, P.E. 2631 Hemlock Morgan City, LA 70380
Daniel J. Magri 3510 W. Park #119 Houma, LA 70360	Ronald C. Parks 22 South Cane Court Houma, LA 70360	James A. Stanczak P.O. Box 1089 Morgan City, LA 70380	Walter T. White, III 158 Wayne Ave. Houma, LA 70360
Wilson L. Maloz, Jr. 1313 Levee Dr. Houma, LA 70360	Donald J. Pertuit, P.E. Rt. 3, Box 440 Raceland, LA 70394	Michael L. Sumrall, P.E. 1805 W. Garner St. Morgan City, LA 70380	David N. Williams Rt. 2, Box 233 Bl. Schriever, LA 70395
Charles J. Marino, Jr. P.O. Box 2664 Morgan City, LA 70380	Thomas E. Petermann, P.E. 3123 Jennie Dr. Morgan City, LA 70380	Johnny J. Swilley, P.E. 1700 Grand Caillou Rd. Houma, LA 70361	Stephen A. Wise 509 Gaynell Houma, LA 70360
			John W. Woodard, P.E. P.O. Box 206 Houma, LA 70360

LAFAYETTE—CHAPTER 4

President—James E. Bowie, Jr., P.E.	Office Phone 318-981-9908 Home Phone 318-981-5757
1st Vice President—Edgar Rivera, EIT	Office Phone 318-233-7046 Home Phone 318-237-0569
2nd Vice President—Larry Lovas, EIT	Office Phone 318-233-9914 Home Phone 318-988-0604
Secretary—Gary Amy, P.E.	Office Phone 318-233-7046 Home Phone 318-984-0569
Treasurer—Walter C. Vodrazka, P.E.	Office Phone 318-231-6511 Home Phone 318-984-5965

Neal J. Adams
121 Dove Circle
Lafayette, LA 70508

Jeff J. Albarado
148 Easy St.
Lafayette, LA 70506

Ronald J. Albarado, P.E.
Rt. 2 Box 262
Scott, LA 70583

Warren D. Albarado
P.O. Box 128
Scott, LA 70583

Hayrabid Alexandrian
127 Mildred #4
Lafayette, LA 70506

Wilbur L. Allain, Jr., P.E.
Box 5-B OCS
Lafayette, LA 70505

David L. Alwell, P.E.
P.O. Box 52000
Lafayette, LA 70508

Alvin A. Amy, P.E.
114 Oak Glen
Lafayette, LA 70503

Gary F. Amy, P.E.
600 Daniel Dr.
Lafayette, LA 70503

James P. Amy, III, P.E.
351 N. 4th St.
Eunice, LA 70535

Keith L. Andrepont, P.E.
461 Bertheaud Ave.
Opelousas, LA 70570

James B. Andrus
Rt. 1 Box 435 R
Scott, LA 70583

Joseph L. Andrus, Jr., P.E.
512 Woodvale Ave.
Lafayette, LA 70501

John W. Angers, P.E.
P.O. Box 620
Jeanerette, LA 70544

Mark A. Arceneaux
Box 3308
Lafayette, LA 70502

Wade J. Artigue, P.E.
102 Mountainside Dr.
Lafayette, LA 70503

Babatunde J. Ayeni
USL Box 43352
Lafayette, LA 70504

Jules D. Babineaux, P.E.
P.O. Box 128
Scott, LA 70583

Anthony Badalament
P.O. Box 52245
Lafayette, LA 70505

C. L. Barber, P.E.
120 Michael Allen
Lafayette, LA 70501

Joe G. Bared
156 Whittington Dr.
Lafayette, LA 70503

Calvin C. Barnhill
122 Thrush Loop
Lafayette, LA 70505

David W. Barry, P.E.
402 W. Bonaire Dr.
Lafayette, LA 70508

Quinton G. Bealer, P.E.
P.O. Box 87
Elton, LA 70532

Theodore Beaulieu, Jr., P.E.
721 W. Congress St.
Lafayette, LA 70501

Warren P. Beedle, P.E.
Box 2327
Lafayette, LA 70501

Alvin Bellaire, Jr.
Box 52588
Lafayette, LA 70505

Kinney R. Benoit, Jr.
100 Fredrick Dr. Apt. C
Lafayette, LA 70503

Dailey J. Berard
P.O. Box 1376
New Iberia, LA 70560

David J. Bergeron
P.O. Box 52331
Lafayette, LA 70505

Keith W. Bergeron
505 Robert E. Lee
Lafayette, LA 70506

Michael R. Bergeron, P.E.
715 E. Butcher Switch Rd.
Lafayette, LA 70507

Regis P. Bergeron
Rt. 3 Box 133 R
Duson, LA 70529

William S. Bergeron, P.E.
505 Robert Lee Dr.
Lafayette, LA 70501

Ramiro J. Bernal, P.E.
148 Easy St.
Lafayette, LA 70506

Joseph S. Billeaud
P.O. Box 128
Scott, LA 70583

Manning F. Billeaud, P.E.
202 Toledo Dr.
Lafayette, LA 70506

Dewey D. Billodeau, P.E.
P.O. Box 569
Franklin, LA 70538

Billy Bingham Jr., P.E.
413 Quail
Lafayette, LA 70508

Donald J. Bishop, Jr., P.E.
2012 Georgia St.
Jeanerette, LA 70544

Douglas Blan
341 Queens #119
Lafayette, LA 70508

Barry J. Bleichner, P.E.
500 Eraste Landry Rd.
Lafayette, LA 70506

Jack C. Bobo, P.E.
P.O. Box 9308
New Iberia, LA 70560

Kevin G. Bollich
100 Sylvia St.
Lafayette, LA 70506

Richard M. Bordelon, P.E.
729 Caddo Dr.
Opelousas, LA 70570

Aldes T. Boudreaux, III
Rt. 2 Box 185
St. Martinville, LA 70582

Dennis P. Boudreaux, P.E.
4111 Cameron St.
Lafayette, LA 70506

Michael B. Boudreaux
USL Box 41513
Lafayette, LA 70504

Michael J. Boudreaux, P.E.
226 Young Dr.
Lafayette, LA 70506

Warren P. Boudreaux
USL P.O. Box 40117
Lafayette, LA 70504

David L. Bourque
Rt. 5 Box 891
Opelousas, LA 70570

James E. Bowie, Jr., P.E.
106 Downing
Lafayette, LA 70506

Mark E. Braun
115 Beverly Dr.
Lafayette, LA 70503

Elton G. Breaux, P.E.
1539 Highway 724
Duson, LA 70529

Ernest P. Breaux, Jr., P.E.
St. Rt. A, Box 165A
New Iberia, LA 70560

George D. Breaux, P.E.
411 Louisa
Broussard, LA 70518

Michael A. Breaux
409 Westchester Rd.
Lafayette, LA 70503

Philip B. Breaux
Rt. B Box 415
New Iberia, LA 70560

Robert J. Breaux, P.E.
Rt. B Box 346
New Iberia, LA 70560

Todd A. Breaux
2610 Frontage Rd., N Gate Apt. 1
Lafayette, LA 70501

Rene Briggs, Jr., P.E.
Rt. 4 Box 334-A
Opelousas, LA 70570

Robert L. Bright, P.E.
219 Montgomery Dr.
Lafayette, LA 70506

David K. Brodnax, P.E.
108 Parsonage Lane
Lafayette, LA 70503

Rickey P. Brouillette
P.O. Box 42291
Lafayette, LA 70504

Curtis Broussard, P.E.
203 Yvette Marie Dr.
Lafayette, LA 70508

Dennis J. Broussard, P.E.
109 Memory Lane
Lafayette, LA 70506

Donald C. Broussard
Rt. 1 Box 390-L
Scott, LA 70583

Francis H. Broussard, Jr., P.E.
Rt. 4 Box 383
New Iberia, LA 70560

Paul C. Broussard, Sr.
209 Constitution Dr.
Maurice, LA 70555

Wesley J. Broussard, P.E.
521 Harrell Dr.
Lafayette, LA 70503

Vencil L. Broz
108 Merchants Blvd. #35
Lafayette, LA 70508

Craig Buteau
2718 W. Main St.
Jeanerette, LA 70544

Russell Caffery, P.E.
711 South Washington St.
Lafayette, LA 70501

Gary H. Caldwell, P.E.
503 Marie Antoinette
Lafayette, LA 70506

Stephen R. Callegari, P.E.
419 Orangewood Dr.
Lafayette, LA 70503

J.M.A. Campaneria, P.E.
P.O. Box 597
Franklin, LA 70538

B. W. Campbell, P.E.
501 Elmwood
Lafayette, LA 70503

Chas. J. Carmichael, Jr., P.E.
251 S. Cedar Grove
Opelousas, LA 70570

Thomas R. Carroll, III, P.E.
202 St. Nicholas
Lafayette, LA 70506

David G. Casey, Jr., P.E.
608 Alonda Dr.
Lafayette, LA 70503

George M. Cassity, P.E.
1353 Surrey St.
Lafayette, LA 70502

Alan J. Castille, P.E.
P.O. Box 2697, 3106 Cameron
Lafayette, LA 70502

Dale J. Castille, P.E.
213 Clem Dr.
Lafayette, LA 70502

Jim L. Chambers
P.O. Box 30000
Lafayette, LA 70505

John E. Chance, P.E.
Box 52047
Lafayette, LA 70505

Bryant L. Chapman
401 Short
Delcambre, LA 70528

Pericle A. Chieri, P.E.
142 Oak Crest Dr.
Lafayette, LA 70501

James N. Chrouister, P.E.
Rt. 1 Box 139 F46
Broussard, LA 70518

Don E. Claxton, P.E.
P.O. Box 52588 OCS
Lafayette, LA 70505

Joseph J. Colletti, Jr.
3920 Old Jeanerette Rd.
New Iberia, LA 70560

James B. Collins, Jr., P.E.
P.O. Box 53912
Lafayette, LA 70505

Timothy L. Collins
Rt. 4 Box 527 L-37
Lafayette, LA 70505

Jacquelyn R. Colwell
P.O. Box 53266 OCS
Lafayette, LA 70505

Marc A. Comeaux
P.O. Box 52488
Lafayette, LA 70505

Stephen H. Cordill, P.E.
225 Stephanie Ave.
Lafayette, LA 70503

Drew Cornell, P.E.
Box 51267
Lafayette, LA 70501

Calvin Courville, P.E.
101 W. Shamrock
Lafayette, LA 70508

Mark Courville
104 Rowz Caneblake
Lafayette, LA 70508

Michael W. Cradeur, P.E.
1353 Surrey St.
Lafayette, LA 70502

George L. Crain, P.E.
P.O. Box 2702
Lafayette, LA 70501

Leslie M. Cross, P.E.
215 Edgewater
New Iberia, LA 70560

Albert B. Crownover, Jr., P.E.
704 Alonda Dr.
Lafayette, LA 70503

Frank K. Daniel, P.E.
506 South Sarah
Welsh, LA 70591

James F. David
505 Yvette Marie Dr.
Lafayette, LA 70508

Kenneth E. Deal, P.E.
302 Sunny Lane
Lafayette, LA 70506

Michael J. Debaillon, P.E.
134 Bramber
Lafayette, LA 70508

Joanne M. Deimel
100 McDonald #22D
Lafayette, LA 70506

William H. Deitenbeck
305 Cleveland St.
Lafayette, LA 70501

Deke E. Dekerlegand
P.O. Box 90039
Lafayette, LA 70509

Alvin E. Demoss, P.E.
P.O. Box 53318
Lafayette, LA 70505

James W. Denny, III, P.E.
Drawer 52567
Lafayette, LA 70505

Eugene R. Desormeaux, P.E.
116 Saxon Dr.
Lafayette, LA 70501

Philip W. Devall
203 N. Locksley
Lafayette, LA 70508

Danny Deville, P.E.
205 Woodbury Dr.
Lafayette, LA 70507

Lionel Deville, Jr., P.E.
Box 305
Ville Platte, LA 70586

Frederick De Court, P.E.
118 Plantation Dr.
New Iberia, LA 70560

Laurent J. De Court, P.E.
309 Boas St.
New Iberia, LA 70560

Juan A. Diaz, P.E.
P.O. Box 50000 OCS
Lafayette, LA 70505

Otto F. Diettel, P.E.
415 Raywood Dr.
Lafayette, LA 70503

Alicia E. Dixon
103 Socrates Pl.
Lafayette, LA 70508

David H. Doggette
P.O. Box 4331
Lafayette, LA 70502

Emery Domingue, P.E.
203 Beverly Dr.
Lafayette, LA 70503

Kirby J. Domingue, Jr., P.E.
305 E. Butcher Switch
Lafayette, LA 70507

Ravelly J. Domingue, Jr., P.E.
122 Charles Read Ave.
Lafayette, LA 70503

Ronald A. Domingue, P.E.
P.O. Box 2305
Lafayette, LA 70501

James F. Donham, P.E.
P.O. Box 52358
Lafayette, LA 70505

Keith R. Dubois, P.E.
4100 Walnut Dr.
New Iberia, LA 70560

Gerald A. Dubroc, P.E.
103 Mill Valley Run
Lafayette, LA 70508

Mark B. Dubroc
148 Easy St.
Lafayette, LA 70506

Joe W. Duck, P.E.
99 Virginia St.
Franklin, LA 70538

Glenn M. Dufour, P.E.
Rt. 1 Box 674 P2
New Iberia, LA 70560

Martin J. Dufour, P.E.
Box 39 Atwood Akers
Crowley, LA 70526

David A. Dugas
3121 Johnston Apt. 130 Bldg. 3
Lafayette, LA 70503

James A. Dunn, Jr., P.E.
P.O. Drawer 53475
Lafayette, LA 70505

Alvin J. Dupuis, P.E.
253 Orangewood Dr.
Lafayette, LA 70501

Richard A. Dupuis, P.E.
123 Park Ave.
Lafayette, LA 70501

Mary L. Edley
102 Adonis Dr.
Lafayette, LA 70506

Glenn N. Elliott
1914 Moss St.
Lafayette, LA 70502

Thomas E. Falgout, P.E.
Rt. 1 Box 11-B
Youngsville, LA 70592

Harry J. Farrar, Jr., P.E.
P.O. Box 30729
Lafayette, LA 70503

Behrouz Fathali
P.O. Box 3706
Lafayette, LA 70502

Arthur E. Faulk, Jr., P.E.
P.O. Drawer M
Lafayette, LA 70501

C. H. Fenstermaker, P.E.
P.O. Box 52106
Lafayette, LA 70505

Keith R. Ferguson
P.O. Box 51108 OCS
Lafayette, LA 70505

Ward S. Filgo
207 Ridge View Dr.
Lafayette, LA 70507

Jose C. Flores
4650 Johnston
Lafayette, LA 70503

Daryle L. Fontenot
P.O. Box 255
Opelousas, LA 70570

Paul N. Fontenot, P.E.
P.O. Box 499
Ville Platte, LA 70586

John C. Fore, Jr.
Rt. 1 Box 63
Baldwin, LA 70514

Irvin G. Fredrick
Rt. 1 Box 38
Maurice, LA 70555

Simon J. Freyou, P.E.
1915 Freyou Rd.
New Iberia, LA 70560

George Fuller
109 Beau Sejour
Lafayette, LA 70508

Charles A. Fuselier, P.E.
Rt. 3 Box 605-B
St. Martinville, LA 70582

U. J. Gajan, P.E.
123 Souvenir Gate
Lafayette, LA 70501

James D. Garber, P.E.
107 N. Gen. Miro
Lafayette, LA 70508

Michael A. Garred
61 Landall Mobil Home Landry R
Scott, LA 70583

James T. Gaudet, P.E.
107 Arlette
Lafayette, LA 70501

J. R. Gaugler, P.E.
102 White Circle
Lafayette, LA 70506

William E. Gean, P.E.
P.O. Box 52268
Lafayette, LA 70505

George G. Glaubrecht
3080 Weeks Island Rd.
New Iberia, LA 70560

Randy M. Gonsoulin
408 Estate Dr.
New Iberia, LA 70560

Gerald M. Gossen, P.E.
113 W. Vermillion, Drawer A
Lafayette, LA 70502

Robert R. Granberry, P.E.
103 Sheridan Ave.
Lafayette, LA 70506

Jesse A. Grantham, P.E.
3912 Ave. Bonnie Terre
New Iberia, LA 70560

Randall C. Gregory
102 Cougar Ridge #3
Lafayette, LA 70508

Jerry A. Grooms, P.E.
P.O. Box 3706
Lafayette, LA 70502

Juno Guedry
204 S. Long St.
Lafayette, LA 70506

Charles L. Guidry, P.E.
3014 Cameron St.
Lafayette, LA 70501

John K. Guidry
703 Beau Pre Rd.
Lafayette, LA 70508

Michael P. Guidry, P.E.
303 Karen Dr.
Lafayette, LA 70503

Isaac M. Gurney, P.E.
P.O. Box 53849
Lafayette, LA 70505

Bob E. Hallman, P.E.
110 Belle Grove Blvd.
Maurice, LA 70555

George B. Hamilton, P.E.
307 Chastant Blvd.
Lafayette, LA 70508

Norman A. Hartwell, Jr.
P.O. Box 51754
Lafayette, LA 70505

Jeffrey J. Harwell
P.O. Box 51843
Lafayette, LA 70505

Clement R. Haulman
205 Bambi Dr.
Lafayette, LA 70503

Magruder G. Hays, P.E.
Box 3346
Lafayette, LA 70501

Carl A. Hebert
308 E. Pinhook
Lafayette, LA 70501

John E. Hebert
Rt. 2 Box 44
Lafayette, LA 70505

Julie C. Hebert
P.O. Box 218
Milton, LA 70558

Kermit L. Hebert, P.E.
207 Mulberry Dr.
Lafayette, LA 70506

Larry M. Hebert, P.E.
P.O. Box 423
Rayne, LA 70578

Marcus Hebert
Rt. 2 Box 238-A
Rayne, LA 70578

Michael L. Hebert
P.O. Box 52746
Lafayette, LA 70505

Randall J. Hebert, P.E.
105 Fanny Dr.
Lafayette, LA 70501

Wayne Hebert
419 E. Jeanette
Crowley, LA 70526

Werner Henke, P.E.
1210 Jeanne
Lafayette, LA 70501

Robert R. Henry, P.E.
307 Lakeside Dr.
Lafayette, LA 70508

Lee C. Hill, P.E.
154 Memory Lane
Lafayette, LA 70506

Robert O. Hinckley, P.E.
P.O. Box 1312
Opelousas, LA 70570

Leon T. Hinson
101 Rue Faubourg
Lafayette, LA 70508

Warren R. Hollier, P.E.
P.O. Box 4331
Lafayette, LA 70502

Wendell W. Holman, P.E.
P.O. Box 51345 OCS
Lafayette, LA 70505

Jack M. Holt, P.E.
211 Alyene
Lafayette, LA 70501

Tom T. Hong
148 Easy St.
Lafayette, LA 70506

Peter A. Hoppe, Jr., P.E.
106 Mocking Bird Lane
Lafayette, LA 70501

Chsun-Yi Hsu
P.O. Box 52449
Lafayette, LA 70505

William M. Hudson, Jr., P.E.
P.O. Box 53351 OCS
Lafayette, LA 70505

J. T. Huey, P.E.
313 N. Ave. H
Crowley, LA 70526

David S. Huval, P.E.
511 Robert Lee Circle
Lafayette, LA 70506

Terry J. Huval
Rt. 3 Box 1270
Breaux Bridge, LA 70517

Wayne P. Hyman, P.E.
312 Silverbell Pkwy.
Lafayette, LA 70508

J. E. Jarman, P.E.
1325 West St. Mary
Lafayette, LA 70506

William H. Jarrell, Jr., P.E.
1665 W. Landry St.
Opelousas, LA 70570

Charles A. Jeanmard, P.E.
902 7th St.
Lafayette, LA 70501

Raymond E. Jenkins, P.E.
Box 64 USL
Lafayette, LA 70501

Richard L. Johnson
P.O. Box 238
New Iberia, LA 70560

Francis L. Jolley, P.E.
907 Omega Dr.
Lafayette, LA 70506

Dennis G. Jordan, P.E.
900 E. University Suite 100
Lafayette, LA 70503

John R. LS Joyner, P.E.
118 St. Benjamin St.
Lafayette, LA 70508

Reggie P. Judice, P.E.
207 Foreman Dr.
Lafayette, LA 70505

Herbert J. Juneau, Jr., P.E.
404 Renwood Circle
Lafayette, LA 70501

William E. Junkin, P.E.
127 Canada Dr.
Lafayette, LA 70506

Robert J. Justice, P.E.
408 Chateau Place
Lafayette, LA 70503

Ted Karavatakis, P.E.
109 Huntington
Lafayette, LA 70508

John Key, P.E.
Rt. 2 Box 381
Rayne, LA 70578

Stephen A. Killingsworth, P.E.
P.O. Box 8 USL
Lafayette, LA 70504

Jeffrey J. Kinniff
4207 Alonzo
New Iberia, LA 70560

John P. Kipp, P.E. 1404 Warren Jeanerette, LA 70544	Scott Laverde P.O. Box 51754 OCS Lafayette, LA 70505	Larry L. Lovas 411 Wall St. Lafayette, LA 70506	Stewart A. Mayeux, P.E. 206 Ruthwood Dr. Lafayette, LA 70506
William A. Klos, P.E. Rural Rt. 3, Box 357 Arnaudville, LA 70512	Aldon A. Leblanc, P.E. 110 Elie Dr. Youngsville, LA 70592	Roy A. Lundy 301 Aristotle Dr. Lafayette, LA 70508	Howard M. McCain, P.E. 705 W. University Ave. Lafayette, LA 70502
Walter S. Kobzoff 113 Toulouse Lafayette, LA 70506	Dale W. Leblanc, P.E. 148 Easy St. Lafayette, LA 70506	Edwin B. Lutgring, Jr. 815 Guidroz St. Franklin, LA 70538	Thomas M. McCall 613 Danile St. Lafayette, LA 70503
Warren S. Koshak 126 Jomela Dr. #151 Lafayette, LA 70503	Felix L. Leblanc Jr., P.E. 405 Montrose Lafayette, LA 70503	Bob L. Mabry, P.E. 206 S. Mannering Lafayette, LA 70508	Ralph D. McGee, P.E. 321 Roselawn Boulevard Lafayette, LA 70501
Emile S. Krouse, Jr., P.E. 625 Claymore Dr. Lafayette, LA 70501	Lester J. Leblanc, P.E. Rt. 2 Box 432 Jennings, LA 70546	Charles T. Mader, P.E. 148 Easy St. Lafayette, LA 70506	David J. Meaux USL Box 40287 Lafayette, LA 70504
T. J. Labbe, P.E. Rt. 1 Box 270 Carencro, LA 70520	Manuel J. Leblanc 802 Souvenir Gate Lafayette, LA 70506	Thomas F. Maher, P.E. 207 Mimosa Place Lafayette, LA 70501	Dwight J. Meaux P.O. Box 263 Delcambre, LA 70528
Wayne M. Labiche, P.E. 3938 Bayou Blvd. New Iberia, LA 70560	Randolph A. Leblanc, P.E. P.O. Box 581 Franklin, LA 70538	Joe Maniscalco, P.E. 107 Appomatox Pkwy. Carencro, LA 70520	Joseph L. Melancon 810 S. College Apt. 41 Lafayette, LA 70503
Larry F. Lafleur, P.E. 102 Tulip Dr. Lafayette, LA 70507	Ricky J. Leblanc Rt. 2 Box 47 Breaux Bridge, LA 70517	Irving Manuel, P.E. 104 Teche Dr. Lafayette, LA 70503	Wayne F. Melancon 1107 Crawford Ave. Crowley, LA 70526
Bernard E. Lambert, P.E. P.O. Box 52029 Lafayette, LA 70505	Terry J. Leblanc 101 Medina Lafayette, LA 70503	Gery J. Marcombe, P.E. P.O. Box 51921 Lafayette, LA 70505	Thomas G. Meyers, P.E. P.O. Box 4331 Lafayette, LA 70502
J. Ronald Landreneau, P.E. 413 B West Magnolia St. Ville Platte, LA 70586	Lawrence Ledet P.O. Box 52047 Lafayette, LA 70505	Ray H. Marr, P.E. P.O. Box 1245 OCS Lafayette, LA 70502	Paul L. Miers 101 Beechwood Lafayette, LA 70503
Gary K. Landry 124 Amber St. Lafayette, LA 70507	Paul J. Letz, P.E. 203 East Eight St. Crowley, LA 70526	Earl J. Martel, P.E. P.O. Box 51667 Lafayette, LA 70505	Glenn E. Miller, P.E. P.O. Box 223 Franklin, LA 70538
Glen R. Landry, P.E. Rt. 1 Box 75 Erath, LA 70533	Dorothy B. Level 158 Bank Ave. Lafayette, LA 70506	Allen L. Martin, P.E. 411 Wall St. Lafayette, LA 70501	Robert E. Miller, Jr., P.E. 205 Bodin Dr. Franklin, LA 70538
Joe B. Landry, P.E. P.O. Box 39 Jennings, LA 70546	Homer D. Lewis 209 Pontalba Lafayette, LA 70503	Clyde M. Martin, P.E. P.O. Box 4017-C Lafayette, LA 70502	Andre E. Montagnet, P.E. 309 Eastland Dr. Lafayette, LA 70503
Patrick J. Landry 105 Norman Dr. Lafayette, LA 70501	Jerry L. Lewis 200 S. Locksley Dr. Lafayette, LA 70501	Ernest H. Martin, P.E. 204 Block Ave. Lafayette, LA 70503	Kenneth W. Moore P.O. Box 52568 Lafayette, LA 70505
Ronald W. Landry Rt. 3 Box 167F #113 Scott, LA 70583	Charles A. Lipari, P.E. P.O. Box 51345 OCS Lafayette, LA 70505	James H. Martin, P.E. P.O. Box 1107 Eunice, LA 70535	Charles M. Morvant, P.E. Rt. 1, Box 161 Broussard, LA 70518
Larry L. Lankford, P.E. 110 Astoria Loop Lafayette, LA 70508	Frank Lipari, Jr., P.E. 702 Broadmoor Blvd. Lafayette, LA 70501	John M. Martin, P.E. P.O. Box 52449 Lafayette, LA 70505	Thomas T. Moseley, P.E. 309 Orgeron Dr. Lafayette, LA 70506
Ferdinand L. Larue, P.E. 166 Antigua Dr. Lafayette, LA 70503	Marcus J. Lockard, P.E. 214 Thruway Park Broussard, LA 70518	William J. Martin, P.E. P.O. Box 52087 Lafayette, LA 70505	Kambiz Movassaghi, P.E. P.O. Box 43988 USL Lafayette, LA 70504
Bryan L. Lasseigne, P.E. P.O. Box 53266 OCS Lafayette, LA 70505	Edwin C. Lopez 304 Dafney Dr. Lafayette, LA 70503	Miles A. Matt 120 Karen Dr. Lafayette, LA 70503	Walter P. Muffoletto 5220 Old Jeanerette Rd. Jeanerette, LA 70544
Clyde A. Lasseigne Rt. 2 Box 336 St. Martinville, LA 70582	Wendy A. Lopez 710 S. College Apt. 8 Lafayette, LA 70503	Raphael Mayeux, P.E. 150 Memory Lane Opelousas, LA 70570	Dominique Naomi, P.E. 311 E. University Lafayette, LA 70503

- Rodney A. Naylor, P.E.**
1105 Kim Dr.
Lafayette, LA 70501
- Walter C. Nelson**
Box 128
Scott, LA 70583
- Donald P. O'Brien, P.E.**
207 Marie Antoinette St.
Lafayette, LA 70501
- Don J. O'Rourke, P.E.**
P.O. Drawer A
Lafayette, LA 70502
- Jesse C. Odom, P.E.**
P.O. Box 519
Franklin, LA 70538
- Donald G. Olivier, Sr., P.E.**
P.O. Box 2883
Lafayette, LA 70502
- James D. Owen, P.E.**
4100 Pratt Dr.
New Iberia, LA 70560
- Robert W. Owens**
300 Knollwood Dr.
Lafayette, LA 70506
- Charles A. Pabst, Jr.**
116 Mountainside Dr.
Lafayette, LA 70503
- Robert L. Pate, P.E.**
P.O. Box 53353
Lafayette, LA 70505
- Michael Patin**
316 So. Pierce St.
Lafayette, LA 70501
- Jules G. Patout, P.E.**
105 Patrick St.
New Iberia, LA 70560
- Robert C. Penny, P.E.**
P.O. Box 53761
Lafayette, LA 70505
- Ricardo P. Pereira**
P.O. Box 51205 OCS
Lafayette, LA 70505
- G. O. Pharr, P.E.**
720 Evergreen
New Iberia, LA 70560
- David J. Pierce**
3420 Hwy. 167 Nth.
Lafayette, LA 70507
- James M. Poche, P.E.**
417 Kim Dr.
Lafayette, LA 70501
- Robert P. Poche**
108 Kaiser
Lafayette, LA 70508
- Douglas A. Pollak**
122 Bramber Dr.
Lafayette, LA 70508
- Darrell J. Pontiff**
148 Easy St.
Lafayette, LA 70506
- Suzette E. Potin**
330 Fev Follet #163
Lafayette, LA 70508
- Richard J. Primeaux**
P.O. Box 381
Broussard, LA 70518
- Stephen G. Rainey**
705 W. University
Lafayette, LA 70502
- Alfred L. Reaux, P.E.**
411 Wall St.
Lafayette, LA 70506
- Gerald G. Reaux, P.E.**
P.O. Box 3281
Lafayette, LA 70502
- James W. Reeves, P.E.**
212 Montgomery Dr.
Lafayette, LA 70501
- John B. Reeves, P.E.**
Box 52449 OCS
Lafayette, LA 70505
- Stephen J. Reiners**
P.O. Box 52005
Lafayette, LA 70505
- George H. Reneau, P.E.**
Box 5-1227
Lafayette, LA 70505
- Dan G. Richard, P.E.**
107 Marcon Dr.
Lafayette, LA 70507
- David C. Richard**
Rt. 2 Box 224
Eunice, LA 70535
- Donald L. Richard, P.E.**
P.O. Box 52115
Lafayette, LA 70505
- Sylvan J. Richard, P.E.**
200 Ludovic Lane
Lafayette, LA 70501
- Peter N. Rigby**
P.O. Box 52000
Lafayette, LA 70505
- Ervin L. Ritter, P.E.**
802 Souvenir Sate
Lafayette, LA 70506
- Glen J. Ritter**
P.O. Box 51206
Lafayette, LA 70505
- Edgar F. Rivera**
211 Clem Dr.
Lafayette, LA 70503
- Calvin J. Roach, P.E.**
P.O. Box 222
Cade, LA 70519
- John S. Robbins, P.E.**
P.O. Box 1229
Jennings, LA 70546
- Earl M. Romero, P.E.**
P.O. Box 449
Broussard, LA 70518
- Manuel A. Roque**
101 Sorority Dr.
Lafayette, LA 70506
- Kenneth W. Roseboom**
P.O. Box 51743
Lafayette, LA 70505
- Richard H. Ross, P.E.**
P.O. Box 457
New Iberia, LA 70560
- Tommy M. Roth**
220 Norine St.
Lafayette, LA 70501
- Herbert J. Roussel, III**
P.O. Box 50000 OCS
Lafayette, LA 70505
- Rachel J. Savoy, P.E.**
816 Briarwood Dr.
New Iberia, LA 70560
- Isby L. Schexnayder, Jr., P.E.**
P.O. Box 2094
New Iberia, LA 70560
- Otto R. Schweitzer, P.E.**
USL Dept. of Chemical Engr.
Lafayette, LA 70501
- Richard C. Sealy, P.E.**
412 Woodvale Ave.
Lafayette, LA 70501
- Ray G. Seidelman, Jr.**
120 Dew Berry Dr.
Lafayette, LA 70507
- Eugene M. Sellers, P.E.**
148 Easy St.
Lafayette, LA 70506
- Jack A. Seybold, Jr., P.E.**
P.O. Drawer 640
New Iberia, LA 70560
- Charles L. Simmons**
101 Representative Row
Lafayette, LA 70505
- Jerry R. Smith, P.E.**
Star Rt. A, Box 101
New Iberia, LA 70560
- Larry G. Smith, P.E.**
P.O. Box 52431
Lafayette, LA 70505
- Kay B. Snyder**
200 N. William Dr.
Lafayette, LA 70506
- Michael B. Songy**
148 Easy St.
Lafayette, LA 70506
- Richard C. Spikes**
P.O. Box 30189
Lafayette, LA 70503
- Lee N. Spinks, P.E.**
705 Brentwood Blvd.
Lafayette, LA 70503
- Claude L. Stelly**
201 Belle Ridge
Lafayette, LA 70501
- Dewey F. Steely**
107 Baudoin Dr.
Lafayette, LA 70503
- Mark A. Stephenson, P.E.**
208 Vancouver Dr.
Lafayette, LA 70507
- Gayle J. Stoute, P.E.**
1713 Charity St.
Abbeville, LA 70510
- Irvin T. Strenge, Jr., P.E.**
P.O. Box 52107
Lafayette, LA 70505
- Philip J. Stutes, P.E.**
Rt. 1 Box 448
Duson, LA 70529
- Shirley A. Stutes, P.E.**
633 Belleview Plantation Rd.
Lafayette, LA 70503
- William H. Sumrall, Jr.**
1600 Myrtle Pl.
Lafayette, LA 70501
- Robert B. Sylvester, P.E.**
Rt. 1 Box 201
Washington, LA 70589
- A. J. Szabo, P.E.**
P.O. Box 52115 OCS
Lafayette, LA 70505
- Douglass S. Talbot, Jr.**
114 S. Demanade
Lafayette, LA 70503
- Willis J. Talley, P.E.**
P.O. Box 139
St. Martinville, LA 70582
- Glenn A. Tamporello**
112 Wedgewood Dr.
Lafayette, LA 70503
- Donald V. Tanner, Jr., P.E.**
1050 N. Second St.
Eunice, LA 70535
- Michael K. Tate, P.E.**
P.O. Box 52088
Lafayette, LA 70505
- Steven E. Tate, P.E.**
433 N. First St.
Eunice, LA 70535
- Don W. Taylor, P.E.**
P.O. Box 51843
Lafayette, LA 70505

Clifford L. Treuil, Jr., P.E.
Rt. 1 Box 68
Carencro, LA 70520

Wondem Teferia
P.O. Box 53526
Lafayette, LA 70505

Ronald V. Turner
Rt. 1 Box 143K
Ville Platte, LA 70586

Mack Abraham, P.E.
3800 Burgoyne
Lake Charles, LA 70601

Donelson R. Caffery, Jr.
Rt. 9 Box 1044 #4
Lake Charles, LA 70601

Bill P. Terry, P.E.
P.O. Box 52088
Lafayette, LA 70505

Ferdinand K. Varrelman, P.E.
Rt. 1 Box 614B
New Iberia, LA 70560

Charles R. Alexander
130 Aracobra
Sulphur, LA 70663

Merle L. Cahoon, P.E.
Rt. 9 Box 500 Apt. 4
Lake Charles, LA 70601

Lovonia J. Theriot, P.E.
USL Box 44170
Lafayette, LA 70504

Walter C. Vincent, P.E.
102 Robert Dr.
Lafayette, LA 70501

Eugene H. Ammons, P.E.
600 Cities Service Hwy.
Sulphur, LA 70663

John J. Caruthers, P.E.
1420 Hope Lane
Sulphur, LA 70663

Clarence Thibodeaux, P.E.
Rt. 1 Box 192-K
St. Martinville, LA 70582

Walter C. Vodrazka, P.E.
116 Lyons St.
Lafayette, LA 70506

Thomas C. Babineaux, P.E.
Rt. 12, Box 377
Lake Charles, LA 70605

Joseph P. Chamberlain, P.E.
P.O. Drawer AA
Lake Charles, LA 70602

Glenn P. Thibodeaux
P.O. Box 51388 OCS
Lafayette, LA 70505

Larry P. Vondenstein
609 Second St.
Rayne, LA 70578

F. G. Bellinger, P.E.
1550 Chateau Circle
Lake Charles, LA 70605

Theo T. Chenet
922 West Jefferson Ave.
Lake Charles, LA 70601

James R. Thibodeaux
Rt. 3 Box 158
Scott, LA 70583

Wayne P. Wallace, P.E.
131 Hillside Dr.
Lafayette, LA 70503

James M. Benoit
4325 Benoit Lane
Lake Charles, LA 70605

Raymond M. Clawson, P.E.
609 Creole Lane
Lake Charles, LA 70601

Kirk Thibodeaux
P.O. Box 41260
Lafayette, LA 70504

Robert S. Wang, P.E.
Box 41646
Lafayette, LA 70504

William J. Bergeron, P.E.
Rt. 9, Box 392
Lake Charles, LA 70601

Gerald L. Coakley
P.O. Box 394
Sulphur, LA 70663

John R. Thistlethwaite
705 S. Court St.
Opelousas, LA 70570

Alex F. Watkins, P.E.
445 S. Court St.
Opelousas, LA 70570

Ricky Berry
Rt. 1 Box 154-H
Dequincy, LA 70633

D.A. Collette, P.E.
P.O. Box 270
Lake Charles, LA 70601

Irwin P. Thomas, P.E.
336 Silverbell
Lafayette, LA 70508

John B. Watts, P.E.
805 Victory Dr.
New Iberia, LA 70560

Timothy J. Bloomfield
P.O. Box 1562
Lake Charles, LA 70601

Sidney J. Cormier, P.E.
Rt. 1 Box 138D
Dequincy, LA 70633

Phillip Thomassee, P.E.
217 Mimosa Place
Lafayette, LA 70506

Charles J. Waugaman, P.E.
4110 Pinhook Rd.
Broussard, LA 70518

Brian D. Boudreaux
102 Madison St.
Sulphur, LA 70663

R. Kenneth Derick, P.E.
140 Industrial
Sulphur, LA 70663

A. L. Thornhill
309 Elmwood Dr.
Lafayette, LA 70503

Michael A. Westgaard
P.O. Box 53266 OCS
Lafayette, LA 70505

James B. Boulet, P.E.
3613 Pin Oaks Cts.
Lake Charles, LA 70601

Steven C. Dollmann, P.E.
2300 Augustine
Sulphur, LA 70663

Frank Tiller
P.O. Box 52451
Lafayette, LA 70501

Rodney J. Wetzel
611 N. Main
St. Martinville, LA 70582

Albert V. Brantley, P.E.
318 Overhill Dr.
Lake Charles, LA 70605

Gerard F. Dooley, P.E.
2600 Roxton
Sulphur, LA 70663

Kerry J. Trahan
P.O. Box 51936 OCS
Lafayette, LA 70505

Robert L. Wolfe, Jr.
1665 W. Landry
Opelousas, LA 70570

Truitt A. Brassette, P.E.
2549 Park Dr.
Lake Charles, LA 70605

Robert T. Doty
McNeese Univ. Dept. of
Mech. Eng.
Lake Charles, LA 70601

Peter L. Trahan
300 Spruce Apt. 139
Lafayette, LA 70505

George L. Womack, P.E.
1018 Bayou Tortue Rd.
Broussard, LA 70518

George A. Breffelh, P.E.
8 Fairway
Lake Charles, LA 70601

Wilbur M. Douciere, P.E.
3607 Burton Lane
Lake Charles, LA 70601

Tony R. Tramel, P.E.
P.O. Box 4017-C
Lafayette, LA 70502

James P. Womack, P.E.
Rt. 1, Box 257R
Arnaudville, LA 70512

Oliver Broussard, III, P.E.
Box 1399
Lake Charles, LA 70601

Curtis E. Dyle, P.E.
P.O. Box 6483
Lake Charles, LA 70606

Randolph J. Trappey, P.E.
P.O. Box 2326
Lafayette, LA 70502

Robert L. Young, P.E.
138 Robichaux Rd.
Broussard, LA 70518

Peter A. Broussard
309 E. Jefferson Dr.
Lake Charles, LA 70605

David E. Eccles, P.E.
1204 Illinois
Lake Charles, LA 70605

Ralph D. Buford
Rt. 1 Box 147
Dequincy, LA 70633

Edwin O. Eisen, P.E.
McNeese Univ. Eng. Dept.
Lake Charles, LA 70609

William J. Burch, Jr., P.E.
2527 St. Joseph St.
Sulphur, LA 70663

Kenneth W. Farmer
P.O. Box 529
Deridder, LA 70634

Eileen P. Bush
730 Rampart St.
Lake Charles, LA 70605

Gary L. Faul
901 Lakeshore Dr.
Lake Charles, LA 70601

LAKE CHARLES—CHAPTER 5

President—Ken Daniel, P.E. Office Phone 318-734-2101
Home Phone 318-734-2196

1st Vice President—Neil R. Koenig, EIT Office Phone 318-491-6191
Home Phone 318-625-7069

Secretary-Treasurer—Robert S. Vincent, P.E. Office Phone 318-436-7573
Home Phone 318-477-1182

Martin L. Fontenot
P.O. Box 1522
Lake Charles, LA 70602

Robert Fontenot
624 Contour Dr.
Lake Charles, LA 70605

Robert K. Franklin
P.O. Box 1562
Lake Charles, LA 70602

John M. Fridge, P.E.
P.O. Box 1562
Lake Charles, LA 70602

Peter Fritzenschaft
Rt. 1 Box 651
Merryville, LA 70653

David R. Frohn, P.E.
P.O. Drawer 2001
Lake Charles, LA 70602

Benjamin A. Barber, P.E.
Rt. 1 Box 1305-C
Lake Charles, LA 70601

John W. Gibson, P.E.
P.O. Box 1865
Lake Charles, LA 70602

Jimmy E. Granger
Rt. 8 Box 2074
Lake Charles, LA 70605

Merlin L. Green, P.E.
P.O. Box 639
Lake Arthur, LA 70549

Blaine P. Gremillion
113 Summerwood Dr.
Sulphur, LA 70663

Robert T. Hall
540 Morningside Dr.
Lake Charles, LA 70601

Eric H. Harlan
P.O. Box 1562
Lake Charles, LA 70602

John O. Hebert, Jr., P.E.
2129 17th St.
Lake Charles, LA 70601

John D. Henderson, Jr., P.E.
2011 Marge Lane
Sulphur, LA 70663

Dale Hotard
726 Lucy St.
Jennings, LA 70546

Alvin R. Hudspeth, P.E.
1710 Ford St.
Lake Charles, LA 70601

D.W. Jessen, P.E.
434 Kirby St.
Lake Charles, LA 70601

Tilghman L. Johnson
1910 10th St.
Lake Charles, LA 70601

Leeland H. Jones, P.E.
328 15th St.
Lake Charles, LA 70601

John E. Jordan
Rt. 1 Box 155-P
Dequincy, LA 70633

Carroll Karkalits, P.E.
McNeese State Univ.
Lake Charles, LA 70601

Thomas W. Kirby
2114 22nd St.
Lake Charles, LA 70601

Mike Kline
4609 Orleans St.
Lake Charles, LA 70605

Neal R. Koenig
2305 Acadienne Dr.
Sulphur, LA 70663

Henry L. Landry, P.E.
2218 18th St.
Lake Charles, LA 70601

Edward I. Lanier, P.E.
Rt. 3 Box 202
Sulphur, LA 70663

W. J. Lechtenberg, P.E.
P.O. Box 6483
Lake Charles, LA 70606

Wendel J. Lechtenberg, Sr., P.E.
433 Jefferson
Lake Charles, LA 70601

Clarence M. Leland, P.E.
2029 Marge Lane
Sulphur, LA 70663

Fred E. Leshe
214 Rio Hondo
Maplewood, LA 70663

Ernest Livingston, P.E.
P.O. Box 1865
Lake Charles, LA 70601

Sam F. Liprie
144 Spring St.
Lake Charles, LA 70605

Robert F. Lister
2980 Lake St. #400
Lake Charles, LA 70601

Lisaman Malikasim
P.O. Box 8585
Mobile, AL 36689

David W. Manry
2980 Lake St. #405
Lake Charles, LA 70601

Charles R. McBride, Jr.
P.O. Box 5537
Lake Charles, LA 70606

Walter C. McCallum, P.E.
1313 Taylor St.
Sulphur, LA 70663

Travis S. McDowell, P.E.
Rt. 12 Box 16
Lake Charles, LA 70605

Edward Meaux, P.E.
P.O. Box 1562
Lake Charles, LA 70601

Sharon Meek
2214 14th St.
Lake Charles, LA 70601

Richard D. Mesh
Rt. 14 Box 2400
Lake Charles, LA 70605

Richard T. Meyer, P.E.
P.O. Box 2128
Sulphur, LA 70663

Vernon F. Meyer
P.O. Box 2128
Sulphur, LA 70663

Michael E. Middleton, P.E.
P.O. Box 1562
Lake Charles, LA 70601

Edward W. Midlan, P.E.
2300 21st St.
Lake Charles, LA 70601

Frank C. Miller, Jr., P.E.
3422 Hollyhill Rd.
Lake Charles, LA 70601

William H. Miller, P.E.
3438 Holly Hill
Lake Charles, LA 70605

Howard S. Minn, P.E.
Rt. 14 Box 2123
Lake Charles, LA 70605

Joseph H. Morgan
3716 Bourgoyne
Lake Charles, LA 70601

Ernest Mouhot, Jr., P.E.
2312 Tulup
Lake Charles, LA 70601

Wayne E. Mouhot
P.O. Box 1865
Lake Charles, LA 70602

John D. Myers
P.O. Box 1563
Lake Charles, LA 70602

S. D. Nolan, P.E.
215 Vine
Sulphur, LA 70663

Leslie M. Nollkamper
P.O. Box 1562
Lake Charles, LA 70601

Brian P. O'Rourke
1020 W. McNeese #11-F
Lake Charles, LA 70605

D. L. Oliver, P.E.
Box 5998
Lake Charles, LA 70606

Marvin V. Paggen, P.E.
1320 Laura Lane
Sulphur, LA 70663

Thomas C. Parker, P.E.
Rt. 1, Box 459X
Sulphur, LA 70663

Webber Parker
600 Cities Service Hwy.
Sulphur, LA 70663

James A. Pech
2116 Olene
Sulphur, LA 70663

Karl W. Peltz, P.E.
Box 1727
Lake Charles, LA 70601

William C. Phillips
1601 Whispering Woods
Lake Charles, LA 70601

John Polansky, Jr.
2620 Hodges St.
Lake Charles, LA 70601

Troy G. Portie, P.E.
P.O. Box 267
Sulphur, LA 70663

James A. Powell
P.O. Box 267
Sulphur, LA 70663

Gus G. Quinn, P.E.
P.O. Box QQ
Lake Charles, LA 70601

Joseph T. Rabalais
1009 Lafitte St.
Lake Charles, LA 70601

Karen C. Raborn
825 E. Central Pkwy.
Lake Charles, LA 70605

Dale S. Reichley, P.E.
Rt. 2 Box 1550
Westlake, LA 70669

Billy R. Rentrop, P.E.
P.O. Box 1562
Lake Charles, LA 70602

David R. Rentrop
19 Eveland
Sulphur, LA 70663

Nolan M. Robichaux, Jr., P.E.
800 Bayou Oak Lane
Lake Charles, LA 70605

Donald H. Robins
400 Greenway St.
Lake Charles, LA 70601

William J. Ross, P.E.
1705 Azalea
Sulphur, LA 70663

Edgar M. Rosteet, P.E.
2801 St. Francis St.
Sulphur, LA 70663

Francis C. Roy, P.E.
1435 Watkins St.
Lake Charles, LA 70601

Melissa A. Ruppert
237 Lucille St.
Lake Charles, LA 70601

Donald E. Savoy
807 Walters #158
Lake Charles, LA 70605

Donald A. Scallan, Jr., P.E.
603 Chennault Apt. 20
Deridder, LA 70634

Mark J. Scheffler
751 Bayou Pines East
Lake Charles, LA 70601

Richard M. See, P.E.
901 Treasure Lane
Lake Charles, LA 70601

Charles Sellers, P.E.
1808 21st St.
Lake Charles LA 70601

William G. Shaw
P.O. Drawer AA
Lake Charles, LA 70602

W. T. Shermer, P.E.
P.O. Box 1562
Lake Charles, LA 70601

Austin V. Sierra, Jr., P.E.
28 Horseshoe Lane
Sulphur, LA 70663

David R. Simpson
32 Hibiscus St.
Sulphur, LA 70663

Harvey J. Sims, Jr., P.E.
517 W. Sallier
Lake Charles, LA 70601

James J. Sims
P.O. Box 1562
Lake Charles, LA 70602

Ramchandra S. Singh, P.E.
4801 Orleans
Lake Charles, LA 70605

John M. Singleton
404 Bagdad Rd.
Westlake, LA 70669

Glendon L. Smith
39 Horseshoe Lane
Maplewood, LA 70663

H. R. Smith, P.E.
816 Sixth St.
Lake Charles, LA 70601

Sharon D. Smith
3520 Linda Lane
Lake Charles, LA 70605

Scott W. Sommer
4249 5th Ave. Apt. H24
Lake Charles, LA 70605

Charles H. Stagg, P.E.
Rt. 2 Box 128-GG
Kinder, LA 70648

Truman C. Stagg, P.E.
820 Holly St.
Lake Charles, LA 70601

John W. Stephenson, P.E.
1404 Diane Dr.
Sulphur, LA 70663

James W. Stevens, P.E.
501 Ashland Dr.
Lake Charles, LA 70605

Charles W. Stokes, P.E.
1311 Eleventh St.
Lake Charles, LA 70601

John D. Stromer
2141 Country Club Rd. Lot 64
Lake Charles, LA 70601

Joseph G. Thomas
Rt. 14 Box 2400
Lake Charles, LA 70605

James B. Thompson, Jr.
P.O. Box 1000
Lake Charles, LA 70602

Theodore H. Thompson
P.O. Box 1563
Lake Charles, LA 70602

Troyce F. Thompson
138 East Lee
Sulphur, LA 70663

Jesse Thornton
2020 Carr Lane #4
Sulphur, LA 70663

Garry L. Todd, P.E.
531 N. Lebanon
Sulphur, LA 70663

Everette E. Toney, P.E.
3904 Joseph St.
Lake Charles, LA 70605

Roger W. Tucker
3606 First Ave.
Lake Charles, LA 70605

Lloyd J. Veal
1805 Charles
Sulphur, LA 70663

James S. Viator
Rt. 3, Box 1094
Sulphur, LA 70663

Jeanne M. Viator
Box 1562
Lake Charles, LA 70602

Claude A. Vincent, Jr., P.E.
533 West Lincoln St.
Sulphur, LA 70663

Donald A. Vincent
2024 13th St.
Lake Charles, LA 70601

Robert S. Vincent, P.E.
1305 Sunset Dr.
Lake Charles, LA 70605

Rodney M. Vincent, P.E.
2025 21st St.
Lake Charles, LA 70601

Harold J. Wall, P.E.
218 Vine St.
Sulphur, LA 70663

William C. Wallace, P.E.
P.O. Box 1707
Lake Charles, LA 70602

William J. Wallace, Jr.
410 Hollywood Lane
Sulphur, LA 70663

Daniel V. Walsh, P.E.
445 Washington
Lake Charles, LA 70601

George B. Walther, Jr., P.E.
4542 E. Meadow Lane
Lake Charles, LA 70605

Alvin R. Webb
1504 Oregon
Lake Charles, LA 70605

George F. Webb, III
P.O. Box 42
Lake Charles, LA 70602

MONROE—CHAPTER 6

President—Jerry G. Lazenby, P.E. Office Phone 318-387-2710
Home Phone 318-396-8803

1st Vice President—Bobby E. Price, P.E. Office Phone 318-257-3546
Home Phone 318-255-3737

2nd Vice President—Merlin A. Pistorius, P.E. Office Phone 318-343-2811
Home Phone 318-387-0385

Secretary-Treasurer—Tyrone A. Riley, P.E. Office Phone 318-255-7359
Home Phone 318-255-7359

James V. Albritton, P.E.
P.O. Box 10348 Tech Station
Ruston, LA 71272

Chester E. Avis, P.E.
17 Willow Dr.
Monroe, LA 71203

Earl R. Bain, P.E.
IMC Fertilizer Group
Sterlington, LA 71280

Wm. R. Baker, P.E.
Box 231
Winnsboro, LA 71295

Hugh B. Balfour, P.E.
211 Belmont Dr.
West Monroe, LA 71291

Joseph H. Barnwell, P.E.
Rt. 2 Box 274 A
Ruston, LA 71270

George F. Webb, Jr., P.E.
2206 Winnie St.
Lake Charles, LA 70601

Gordon L. Wedemeyer, P.E.
129 Arlington Dr.
Lake Charles, LA 70601

Larry E. Welborn
110 Fontenot Rd.
Westlake, LA 70669

Jack E. Wells, Jr.
2013 Olene Dr.
Sulphur, LA 70663

Philip L. Whitaker, P.E.
P.O. Box 877
Lake Charles, LA 70602

David G. Williams
2720 Mary Ann
Sulphur, LA 70663

James F. Williams, Jr., P.E.
314 West State St.
Lake Charles, LA 70601

Gordon B. Wooster, P.E.
Rural Route 3 Box 870
Sulphur, LA 70663

William T. Barr, P.E.
110 Jessica Place
West Monroe, LA 71291

William G. Bartlett, P.E.
2213 Dogwood Dr.
Monroe, LA 71201

Michael W. Bechtold, P.E.
4102 Bon Aire
Monroe, LA 71203

Dudley J. Bertrand, P.E.
2901 Cypress St.
West Monroe, LA 71291

James E. Biles, P.E.
P.O. Box 1762
Monroe, LA 71201

D. E. Bivins, Jr., P.E.
3704 Cypress St.
West Monroe, LA 71291

Stephen K. Blackwelder
P.O. Drawer 1100
Ruston, LA 71270

Stephen D. Bolton
Rt. 6 Box 127
Monroe, LA 71201

Thomas M. Bonnette, P.E.
P.O. Box 112
Rayville, LA 71269

Kenneth L. Brantley, P.E.
Rt. 2 Box 115
Farmerville, LA 71241

James L. Brewster, Jr.
3901 Jackson
Monroe, LA 71201

Alton D. Brown
P.O. Box 1762
Monroe, LA 71201

John S. Bruce
P.O. Drawer 1245
Ruston, LA 71270

Duane F. Bruley, P.E.
Box 10348, T.S.
Ruston, LA 71272

Travis S. Bryan
3901 Jackson St.
Monroe, LA 71201

James E. Bryant, P.E.
102 Shirley Dr.
Monroe, LA 71203

John H. Brynsvold, P.E.
P.O. Box 1762
Monroe, LA 71201

Oliver L. Buhls, P.E.
P.O. Box 208
Simsboro, LA 71275

D. F. Burkhalter, Jr., P.E.
1811 Roselawn Ave.
Monroe, LA 71201

Dorsey W. Byers
105 Fleur De Lis
West Monroe, LA 71291

John D. Calhoun, P.E.
302 Woodhaven Rd.
Ruston, LA 71270

William M. Calhoun
117 Llaufair
Ruston, LA 71270

Jack Canterbury, P.E.
P.O. Box 10348, TS
Ruston, LA 71272

Robert M. Caruthers, P.E.
P.O. Box 10348
Ruston, LA 71272

Henry B. Childs
3901 Jackson St.
Monroe, LA 71201

Ben J. Clary, P.E.
1911 Knowles Dr.
Ruston, LA 71270

Paul E. Colquette
P.O. Box 1206
Monroe, LA 71201

Fred A. Conlee, P.E.
2314 Pinehurst
Monroe, LA 71201

Fred A. Coon, III, P.E.
P.O. Box 1762
Monroe, LA 71201

Robert E. Craft, P.E.
1401 Hudson Lane
Monroe, LA 71203

James C. Crawford, P.E.
1302 Emerson
Monroe, LA 71201

Louis C. Crew, P.E.
503 N. Washington St.
Bastrop, LA 71220

Fred C. Culpepper, Jr., P.E.
Suite 614 ONB Bldg.
Monroe, LA 71201

Harold B. Curry, P.E.
P.O. Box 2039
West Monroe, LA 71291

Guyon J. Davis
45 D Colonial Dr.
Monroe, LA 71203

Terry D. Denmon, P.E.
P.O. Box 8460
Monroe, LA 71203

Stephen B. Densford, P.E.
P.O. Box 4707
Monroe, LA 71201

Richard D. Dick
P.O. Drawer 1245
Ruston, LA 71270

David M. Dumas, P.E.
204 Dupont Dr.
West Monroe, LA 71291

Tracy D. Dyer
5422 Highland St.
Monroe, LA 71202

John H. Eason
3401 Loop Rd.
Monroe, LA 71201

David L. Edgar, P.E.
Rt. 3 Box 251A
Monroe, LA 71203

J. R. English, P.E.
1149 Finks Hideaway Rd.
Monroe, LA 71203

Earl J. Estopinal, Jr.
2904 Cuba Blvd.
Monroe, LA 71201

Alton J. Fallin
P.O. Box 1762
Monroe, LA 71201

C. Stuart Ferrell, P.E.
Box 10348 TS
Ruston, LA 71272

Thomas J. Folk, P.E.
601 Brookwood Dr.
Ruston, LA 71270

Donald G. Fordham, P.E.
105 Tyree Dr.
West Monroe, LA 71291

Carl M. Foster
102 Shawnee Dr.
West Monroe, LA 71291

Charles W. Foster, P.E.
101 Walnut Dr.
West Monroe, LA 71291

Maxie J. Fowler, P.E.
600 Gainsville Rd.
Jonesboro, LA 71257

Russell A. Freidrich, P.E.
6210 Cypress Point Dr.
Monroe, LA 71203

Rodger D. Fulmer
1604 Crescent Dr.
Monroe, LA 71202

Foy B. Gadberry
P.O. Box 728
West Monroe, LA 71291

Melvin C. Garman, Jr., P.E.
P.O. Box 10348 TS
Ruston, LA 71272

Thomas J. Gimse
1816 Roselawn Dr.
Monroe, LA 71201

Quincy G. Girod
P.O. Box 748
Bastrop, LA 71220

Jimmie R. Goodwin, P.E.
219 Williamsburg Dr.
Monroe, LA 71201

P. G. Gramling, Jr., P.E.
1807 Bittersweet Ave.
Ruston, LA 71270

James L. Griffin, P.E.
4800 Bon Air Dr.
Monroe, LA 71201

Leslie K. Guice, P.E.
P.O. Box 10348 TS
Ruston, LA 71272

L. C. Gunter
P.O. Box 1762
Monroe, LA 71201

William O. Hadley, Sr., P.E.
P.O. Box 10348 TS
Ruston, LA 71272

Paul N. Hale, Jr., P.E.
P.O. Box 10348 TS
Ruston, LA 71272

John S. Hamilton, Jr. P.E.
P.O. Box 4355
Monroe, LA 71201

John W. Hamilton, Jr., P.E.
1800 Milton St.
Monroe, LA 71201

Beverly B. Handy, III
1605 Arizona St.
Monroe, LA 71201

Donald R. Harrison, P.E.
Rt. 5, 22 Town East Circle
Monroe, LA 71201

Jesse W. Harrison, P.E.
404 Fairfield
West Monroe, LA 71291

Robert H. Havard, P.E.
P.O. Box 4887
Monroe, LA 71203

George L. Heller, P.E.
4710 Bon Aire Dr.
Monroe, LA 71203

H. L. Henry, P.E.
P.O. Box 10348 TS
Ruston, LA 71272

J. O. Herpin, Jr., P.E.
803 Glenmar Ave.
Monroe, LA 71201

Harold C. Hill, P.E.
101 Oak Circle
Monroe, LA 71201

William E. Holdman, P.E.
P.O. Box 728
West Monroe, LA 71291

Carol E. Holley
P.O. Box 27
Heflin, LA 71039

Robert D. Holstead, P.E.
P.O. Box 10348 TS
Ruston, LA 71272

H. K. Huckabay, P.E.
P.O. Box 10348 TS
Ruston, LA 71272

J. L. Hudson, P.E.
P.O. Box 1762
Monroe, LA 71201

F. M. Huey, P.E.
1811 Pargoud Blvd.
Monroe, LA 71201

Stanton E. Huey, Jr., P.E.
P.O. Box 6056
Monroe, LA 71203

Stanton E. Huey, P.E.
P.O. Box 6056
Monroe, LA 71203

Albert D. Hulett, Jr. 10 University Blvd. Ruston, LA 71270	Richard B. Lewis 700 Monterey Dr. Ruston, LA 71270	George W. Middleton, P.E. P.O. Box 10348 TS Ruston, LA 71272	George D. Pickering, P.E. P.O. Box 1762 Monroe, LA 71201
Christopher G. Humphreys 1502 Lamy Lane Monroe, LA 71201	William T. Lowe Rt. 3 Box 111 Ruston, LA 71270	Gerald A. Miller 1309 Louisville Ave. Monroe, LA 71201	John F. Pietranski P.O. Box 96 Swartz, LA 71281
Franklin H. Jenkins, P.E. 2000 North 7th West Monroe, LA 71291	James D. Lowther, P.E. P.O. Box 10348 TS Ruston, LA 71272	Jennifer M. Miller Box 5047 TS Ruston, LA 71272	Merlin A. Pistorius, P.E. P.O. Box 4068 Monroe, LA 71203
James S. Jenkins 3901 Jackson St. Monroe, LA 71201	William M. Luffey, P.E. Rt. 1 Box 232 Calhoun, LA 71225	William Miller P.O. Box 1762 Monroe, LA 71201	Henry T. Poulan, P.E. 501 Morris Ave. Monroe, LA 71201
William L. Jenkins, P.E. 118 Dopson Pl. West Monroe, LA 71291	Jerry M. Madden, P.E. P.O. Box 2673 West Monroe, LA 71291	Eldred E. Moncla, P.E. P.O. Drawer 1762 Monroe, LA 71201	Charles W. Pressley, Jr., P.E. 31 Jana Dr. Monroe, LA 71203
Alton R. Johnson, P.E. P.O. Box 1762 Monroe, LA 71201	Willard R. Manuel, P.E. P.O. Box 1762 Monroe, LA 71201	John W. Moore, P.E. P.O. Drawer 1245 Ruston, LA 71270	Bobby E. Price, P.E. P.O. Box 10348 TS Ruston, LA 71272
David L. Johnson, P.E. P.O. Box 10348 TS Ruston, LA 71272	Joseph C. Marceaux, P.E. 504 100 Oaks Drive Ruston, LA 71270	Fred Morales, P.E. 1509 Gordon Drive Ruston, LA 71270	George R. Pylant 219 Riverbend West Monroe, LA 71291
Milton R. Johnson, Jr., P.E. 810 Robert St. Ruston, LA 71270	John G. Maroney, P.E. P.O. Box 2473 Monroe, LA 71201	Keith A. Morgan, P.E. #7 Leslie Lane Monroe, LA 71203	Terry L. Rainbolt, P.E. Route 3 Rayville, LA 71269
Richard E. Johnson, P.E. P.O. Box 1762 Monroe, LA 71201	Norman F. Marsolan, Jr., P.E. Box 4875 Ruston, LA 71272	James D. Nelson LA Tech Univ. Agri. Engr. Dept Ruston, LA 71272	Charles L. Rand, Jr., P.E. 2703 Bayou Lane Monroe, LA 71201
Morley T. Johnston 28 Karen Lane Monroe, LA 71201	Richard F. Mason, Jr., P.E. P.O. Box 1762 Monroe, LA 71201	John O. Nelson, Jr., P.E. Route 1 Box 590 Calhoun, LA 71225	Asa M. Ray, Jr., P.E. 5710 Bon Aire Monroe, LA 71201
Jerry S. Kennedy, P.E. 119 York Dr. Monroe, LA 71203	Henry D. McBride 109 Shalimar Dr. West Monroe, LA 71291	Alvin W. Newkirk 723 Guy Ave. Monroe, LA 71203	Van T. Read, P.E. P.O. Box 4787 Monroe, LA 71203
Troy L. Kennedy, Jr. P.O. Box 1762 Monroe, LA 71201	Hugh G. McDonald, P.E. P.O. Drawer 1651 Monroe, LA 71201	Maurice W. O'Hare, P.E. 1608 Milton St. Monroe, LA 71201	Tyrone A. Riley, P.E. Rt. 5, Box 196 Ruston, LA 71270
Joseph D. Kidd 212 White Column Dr. West Monroe, LA 71291	Dan D. McDuff, P.E. 602 Balboa Dr. Monroe, LA 71201	Don L. Olson 13 Fair Oaks Dr. Monroe, LA 71201	M. Cary Risley 3901 Jackson St. Monroe, LA 71201
Charles A. Killgore, P.E. 506 Hundred Oaks Dr. Ruston, LA 71270	David Y. McGee, P.E. 21 Willow Dr. Monroe, LA 71201	Virgil Orr, P.E. Rt. 1 Box 173 B6 Ruston, LA 71270	Bryan D. Ritter, P.E. Rt. 1 Box 241-A West Monroe, LA 71291
Ellis M. Killgore, P.E. 301 W. Woodhaven Rd. Ruston, LA 71270	A. G. McKee, P.E. 1508 Morgan Ave. Ruston, LA 71270	Nelson J. Ozenberger, P.E. P.O. Box 1762 Monroe, LA 71201	Jackie Robbins, P.E. P.O. Box 10348 TS Ruston, LA 71272
Robert P. Larkan, P.E. Route 8, Box 136A West Monroe, LA 71291	Norman T. McLaury, Sr. 3901 Jackson St. Monroe, LA 71201	Jack T. Painter, P.E. Box 4255 Tech Station Ruston, LA 71270	Laston J. Rose 3901 Jackson St. Monroe, LA 71201
Jerry G. Lazenby, P.E. P.O. Box 728 West Monroe, LA 71291	Kenneth C. McManus 204 Lakewood Monroe, LA 71203	Milton E. Parker, P.E. 40 W. Elmwood Dr. Monroe, LA 71201	Joseph W. Rutledge, P.E. P.O. Box 1260 West Monroe, LA 71291
Calvin A. Lemke, P.E. Box 235 Ruston, LA 71270	Ralph W. McMickle, P.E. 303 Pecan Bayou Dr. Monroe, LA 71201	Floyd T. Patterson, Jr. Rt. 4 Box 20 Oak Grove, LA 71263	Ronald D. Sadow, P.E. P.O. Box 1762 Monroe, LA 71201
	Dwain E. McVay P.O. Box 728 West Monroe, LA 71291	Ken W. Peaker 119 Ada West Monroe, LA 71291	Frank C. Sample, P.E. 2419 North 7th St. West Monroe, LA 71291

Michael P. Sartori, P.E.
2103 Elmwood
Monroe, LA 71201

Clifford J. Schexnayder, P.E.
P.O. Box 10348 TS
Ruston, LA 71272

Roy W. Schubert, P.E.
P.O. Box 1603
Ruston, LA 71270

Charles A. Shoudy, P.E.
610 Loop Rd.
Monroe, LA 71201

Donna G. Skipper
P.O. Drawer 1245
Ruston, LA 71270

James M. Smith, P.E.
2021 Saturn Dr.
Bastrop, LA 71220

Lonnie O. Smith
P.O. Box 1762
Monroe, LA 71201

Patrick R. Sparrow
2803 Breville St.
Monroe, LA 71201

James W. Spivey, P.E.
100 Oak Dr.
West Monroe, LA 71291

William Z. Spivey, P.E.
2507 Northwood Dr.
Ruston, LA 71270

Glenn W. Stancliff, P.E.
P.O. Box 965
Ruston, LA 71270

Douglas A. Steed
P.O. Box 7329
Monroe, LA 71203

Eugene A. Stephenson, P.E.
P.O. Box 2942
Monroe, LA 71207

John L. Stimac, P.E.
104 Dondee Dr.
West Monroe, LA 71291

John S. Stone, P.E.
1909 John Circle
Monroe, LA 71201

R. E. Storms, P.E.
1006 Darbonne St.
Ruston, LA 71270

Charles F. Stubbs, P.E.
P.O. Box 2653
Monroe, LA 71207

Mitchell B. Sumrall
3901 Jackson St.
Monroe, LA 71201

James S. Tarbutton, P.E.
Rt. 5 Box 364
Ruston, LA 71270

Ralph N. Temple
P.O. Box 96
Swartz, LA 71281

J. J. Thigpen, P.E.
1116 Carey Ave.
Ruston, LA 71270

Frank Thrash, P.E.
36 Kathy Lane
Monroe, LA 71203

Grover J. Trammell, P.E.
P.O. Box 10348 TS
Ruston, LA 71272

John L. Treubig
P.O. Box 4822 TS
Ruston, LA 71272

Ronald E. Unser
P.O. Box 1762
Monroe, LA 71201

Clyde G. Vidrine, P.E.
P.O. Box 10348 TS
Ruston, LA 71272

Karl M. Wallace, P.E.
Rt. 5 Box 207
West Monroe, LA 71291

George E. Watson, P.E.
3603 Scenic Drive
Monroe, LA 71201

Van C. Westbrook
113 Kelly
West Monroe, LA 71291

Fred N. Westrom, P.E.
P.O. Box 1762
Monroe, LA 71201

C. C. Whittelsey, P.E.
3807 Deborah Dr.
Monroe, LA 71201

Aaron D. Williams, Jr., P.E.
Box 4887
Monroe, LA 71201

Walter L. Williams, P.E.
1005 Roselawn St.
Monroe, LA 71201

Elward S. Willis, P.E.
2420 Park Ave.
Monroe, LA 71201

Joe R. Wilson, P.E.
1621 Hodges Rd.
Ruston, LA 71270

C. Ray Wimberly
P.O. Box 10348 TS
Ruston, LA 71272

Ronnie F. Wise
500 Beasley St.
Monroe, LA 71203

M. Brents B. Witty, Jr., P.E.
2000 N. 7th Str. #D
West Monroe, LA 71291

Michael D. Womble
111 North Carter
Winnsboro, LA 71295

James A. Wroten, P.E.
504 N. 17th St.
Monroe, LA 71201

James E. Wyche, Jr., P.E.
1207 Cole Ave.
Monroe, LA 71203

Stephen L. Yeich, P.E.
Rt. 2 Box 173B
Ruston, LA 71270

John S. Zeid
IMC Chem. Inc. LA Hwy. 2
Sterlington, LA 71280

NEW ORLEANS—CHAPTER 7

President—Dale T. Hunn, P.E. Office Phone 504-523-5281
Ext. 286
Home Phone 504-443-4658

1st Vice President—Marvin L. Firmin, P.E. Office Phone 504-734-0856
Home Phone 504-482-8898

2nd Vice President—Frederick J. Brown, P.E. Office Phone 504-286-6184
Home Phone 504-393-1279

Secretary-Treasurer—George N. Bischoff, P.E. Office Phone 504-522-2971
Home Phone 504-288-1565

Paul J. Abadie
6041-1106 Village Bend
Dallas, TX 75206

Christopher D. Alfonso, P.E.
5612 Ruth St.
Metairie, LA 70003

Randall J. Abadie
1200 St. Charles Ave.
New Orleans, LA 70130

Jack W. Allen
236 Ridgewood Dr.
Metairie, LA 70005

Reynold J. Abadie, Jr., P.E.
2829 Corinne Dr.
Chalmette, LA 70043

W. J. Allen, P.E.
2245 Manhattan Blvd.
Harvey, LA 70058

Michael C. Abraham, P.E.
3915 St. Charles Ave. #502
New Orleans, LA 70115

George W. Allred, P.E.
573 Lynnmeade
Gretna, LA 70053

Aaron Abramson, P.E.
1611 Audubon St.
New Orleans, LA 70118

Magna Altamirano
1203 4th St.
New Orleans, LA 70130

John C. Adams, P.E.
1328 W. Esplanade Apt. P
Kenner, LA 70062

Hadi Amini
UNO P.O. Box 1243
New Orleans, LA 70148

Albert J. Adoue, Jr., P.E.
1600 South Peters
New Orleans, LA 70130

Mark C. Anderson
1031 Broadway
New Orleans, LA 70118

Saeed Ahmad, P.E.
P.O. Box 336
Belle Chasse, LA 70037

Robert B. Anderson, P.E.
5920 Memphis St.
New Orleans, LA 70124

August J. Albano, P.E.
14 Theresa Ave.
Kenner, LA 70062

Yvette Antoine
416 E. St. Jean Baptist
Chalmette, LA 70043

Daniel R. Aldridge, P.E.
2420 Valentine
New Orleans, LA 70114

Robert L. Appel, P.E.
18 Shady Oaks Lane
New Orleans, LA 70123

Jerry W. Alexander
4817 York St. #267
Metairie, LA 70001

Lloyd J. Arbo, Jr., P.E.
921 Mayfair Lane
Kenner, LA 70062

Kevin F. Alexcee
5411 Lafaye St.
New Orleans, LA 70122

Charles J. Arceneaux, Jr.
P.O. Box 61532
New Orleans, LA 70161

Thomas W. Arceneaux 403 S. Gatehouse Dr. Apt. M Metairie, LA 70001	Claude G. Barker 317 Barrone St. New Orleans, LA 70112	Thomas A. Bear 4533 Glendale St. Metairie, LA 70002	Robert A. Berlin Rt. 7 Box 899 Covington, LA 70433
Wilbert L. Argus, Sr., P.E. 5615 Perrier St. New Orleans, LA 70115	Charles Barnes 2601 Cupid St. New Orleans, LA 70114	Kathy A. Beard 3425 Edenborn Ave. Apt. 115 Metairie, LA 70002	Jules C. Bernard, P.E. 6533 Louis XIV St. New Orleans, LA 70124
G. Dean Arnold, P.E. P.O. Box 61520 New Orleans, LA 70161	Gary J. Barnes, P.E. P.O. Box 61000 New Orleans, LA 70161	Robert G. Bearden 645 Diplomat St. Gretna, LA 70053	Charles W. Berthold, Jr., P.E. 4620 Henican Place Metairie, LA 70003
Jett C. Arthur, Jr., P.E. 3013 Ridgeway Dr. Metairie, LA 70002	J. W. Barnes, P.E. P.O. Box 692 Slidell, LA 70459	John F. Beaver, P.E. 3405 Royal St. New Orleans, LA 70117	John Bertucci 4821 Academy Metairie, LA 70003
Vernon W. Ashworth, P.E. 5801 Carlisle Ct. New Orleans, LA 70114	Mettulus A. Barnes, P.E. 110 Riverwood Dr. Covington, LA 70433	Hal C. Becker, P.E. 4801 Green Acres Ct. Metairie, LA 70003	Allen W. Betz, II, P.E. 4704 Chateau Dr. Metairie, LA 70002
Moses Attaya, P.E. 5029 Folse Dr. Metairie, LA 70002	Otha E. Barron, Jr., P.E. 7019 Lake Kennilworth Dr., #109 New Orleans, LA 70126	R. O. Beckham, Jr., P.E. 4704 Elmwood Parkway Metairie, LA 70003	Allen W. Betz, P.E. 6 Wavertree Ct. Metairie, LA 70005
Theodore A. Aucoin, Jr., P.E. 1226 St. Thomas Street New Orleans, LA 70130	A. Jack Bartlett, P.E. 3602 Dumaine St. New Orleans, LA 70119	Glenn A. Becnel, P.E. 10800 River Road Westwego, LA 70094	Dale C. Biggers, P.E. 121 Beverly Dr. Metairie, LA 70001
Ashton B. Avegno, Jr., P.E. 9500 Abel Lane River Ridge, LA 70123	George R. Bartlett 4005 Delgado Ave. New Orleans, LA 70119	P.A. Becnel, Jr., P.E. 728 State St. New Orleans, LA 70118	Leslie Biggs 2740 Oak Leaf Marrero, LA 70072
John J. Avery, Jr., P.E. 920 Carondelet Building New Orleans, LA 70130	Linda W. Bartlett 3602 Dumaine St. New Orleans, LA 70119	Richard J. Becnel, Jr., P.E. P.O. Box 61520 New Orleans, LA 70161	Charles E. Bills, P.E. 1460 Quebrada Del Sur Harvey, LA 70058
Jerome C. Baehr, P.E. 7407 St. Charles St. New Orleans, LA 70118	John C. Bartley, P.E. P.O. Drawer 19627 New Orleans, LA 70119	George L. Bell P.O. Box 433 Harvey, LA 70059	Anthony Bird 356 Lowerline New Orleans, LA 70118
Barbara A. Bailey, P.E. Box 60188 New Orleans, LA 70160	Bruce D. Barton, P.E. 709 Ridgewood Dr. Metairie, LA 70001	John W. Bell, P.E. 136 Beverly Dr. Metairie, LA 70001	Edmond K. Birdsong P.O. Box 13743 New Orleans, LA 70185
Thomas P. Ballay 3218 River Oaks Dr. New Orleans, LA 70114	Fred A. Basha, P.E. 2838 Iberville St. New Orleans, LA 70119	Paul M. Bellocq 624 Valance St. New Orleans, LA 70115	Frank A. Birdsong, P.E. P.O. Box 13743 New Orleans, LA 70185
Carl L. Bankston, Jr., P.E. P.O. Box 60035 New Orleans, LA 70160	James B. Bassich 1200 St. Charles Ave. New Orleans, LA 70130	Charles L. Belsom, P.E. 1608 High Ave. Metairie, LA 70001	George N. Bischof, P.E. 5623 Arts St. New Orleans, LA 70122
Austin L. Banning 11 James Blvd. Suite 240 Destrehan, LA 70047	Clark R. Battle, P.E. 6304 Wilty St. Metairie, LA 70003	Michael S. Benbow, P.E. 1108 Velma St. Metairie, LA 70001	Roger Bissinger, P.E. P.O. Box 15315 New Orleans, LA 70175
H. T. Banta, P.E. 905 Haring Rd. Metairie, LA 7001	Dalan J. Bayham, P.E. P.O. Drawer 38 Harvey, LA 70059	Armand I. Bennett, P.E. 2401 Blanchard Dr. Chalmette, LA 70043	E. J. Blache, P.E. 3609 Clifford Dr. Metairie, LA 70002
Donald E. Barbe, P.E. 3661 Rue Delphine New Orleans, LA 70114	William D. Beakley, P.E. 807 Bocage Lane Mandeville, LA 70448	Frank W. Bennett, Jr. P.O. Drawer 53266 New Orleans, LA 70153	C. Roberick Black 4103 Maple Leaf Dr. New Orleans, LA 70114
Henry J. Barbe, Jr., P.E. 8941 Middleboro Rd. New Orleans, LA 70127	Perry H. Beall, P.E. 615 Baronne St. New Orleans, LA 70113	Henry J. Bergeron, Jr., P.E. P.O. Box 8818 Metairie, LA 70011	Kenneth L. Black, P.E. P.O. Box 60340 New Orleans, LA 70160
August J. Barbier, Jr., P.E. 2120 Airline Park Blvd. Metairie, LA 70003	James W. Bean, P.E. 6025 Garfield St. New Orleans, LA 70118	John J. Bergeron, P.E. P.O. Box 60340 New Orleans, LA 70160	Hugh M. Blain, Jr. 2324 Octavia St. New Orleans, LA 70115
Wayne R. Barcelo, P.E. 266 Audubon St. New Orleans, LA 70118	Ralph C. Bean 5901 River Road New Orleans, LA 70123	Michael D. Bergstrom 137 Yellowstone Kenner, LA 70062	Jorge L. Blanco, P.E. P.O. Box 1336 Braithewaite, LA 70040

- James H. Bleke, P.E.**
3501 Rue Nichole
New Orleans, LA 70114
- Walter E. Blessey, P.E.**
5546 Dayna Ct.
New Orleans, LA 70124
- Jacques Blouin**
P.O. Drawer 628
Harvey, LA 70059
- Richard K. Blum, P.E.**
P.O. Box 8708
Metairie, LA 70011
- Robert M. Bocchino**
One Canal Place Suite 2300
New Orleans, LA 70130
- George A. Bode**
2312 Broadway
New Orleans, LA 70125
- William J. Bodin, P.E.**
1024 S. Cypress St.
Hammond, LA 70401
- Albert R. Boelete, P.E.**
7362 Spanish Fort Blvd.
New Orleans, LA 70124
- William F. Boelte, P.E.**
123 Oakleaf Dr.
Slidell, LA 70458
- Isaac E. Boggs, Jr., P.E.**
Rt. 1, Box 247
Abita Springs, LA 70420
- Henry Boh**
10 Swan St.
New Orleans, LA 70124
- Robert H. Boh, P.E.**
10 Versailles Blvd.
New Orleans, LA 70125
- Robert S. Boh**
P.O. Drawer 53266
New Orleans, LA 7070153
- Philip W. Bohne, P.E.**
223 Sena Dr.
Metairie, LA 70005
- William H. Bohne, P.E.**
329 State St.
New Orleans, LA 70118
- John R. Bolling**
3821 Metairie Ct.
Metairie, LA 70002
- Walter C. Bonie, P.E.**
41 Allard Blvd.
New Orleans, LA 70119
- John E. Bonneau**
P.O. Drawer 1779
Covington, LA 70433
- Joseph C. Bonner, P.E.**
2924 E. St. Bernard Hwy.
Meraux, LA 70075
- Ernest L. Bonnoitt, P.E.**
3829 Veterans Blvd., Suite 104
Metairie, LA 70002
- James E. Booth, Jr.**
1804 Lafitte Dr.
LaPlace, LA 70068
- Lionel S. Booth, P.E.**
13 Traminer Dr.
Kenner, LA 70062
- Catherine Boquet**
27 Creagan Ave.
Gretna, LA 70053
- Lydia G. Boquet**
27 Creagan Ave.
Gertna, LA 70053
- Lawrence H. Boston, P.E.**
P.O. Box 60035
New Orleans, LA 70160
- William M. Bouchereaux, Jr.**
2209 Paul Dr.
Meraux, LA 70075
- Thomas A. Boudreau, Jr.**
P.O. Box 60035
New Orleans, LA 70160
- Donald P. Boudreaux, P.E.**
209 Sena Dr.
Metairie, LA 70005
- Michael P. Bourgeois**
120 Oakland Ave.
New Orleans, LA 70123
- Rhodes J. Bourgoynne, P.E.**
148 Ursula Dr.
Westwego, LA 70094
- Hugh O. Bourque, Jr.**
1701 Jutland
Marrero, LA 70072
- Gerald A. Bragg, P.E.**
2804 Ingrid Ln.
Metairie, LA 70003
- Emile J. Brauner**
#1 Bailey St.
Harahan, LA 70123
- Hjalmar E. Breit, Jr., P.E.**
326 Picayune Place
New Orleans, LA 70130
- John A. Bretz**
1365 Thibodeaux Ave.
Baton Rouge, LA 70806
- Eugene A. Brian, P.E.**
615 Baronne St.
New Orleans, LA 70113
- Edmond M. Brignac, Jr., P.E.**
1221 N. Broad St.
New Orleans, LA 70119
- Akbar F. Brinsmade, P.E.**
426 Country Club Blvd.
Slidell, LA 70458
- Robert B. Brinsmade**
P.O. Box 29177
New Orleans, LA 70189
- Blace Brocato**
6565 Milne Blvd.
New Orleans, LA 70124
- A. W. Brodtman, P.E.**
994 Bragg St.
New Orleans, LA 70124
- August J. Brodtman, P.E.**
14 Egret St.
New Orleans, LA 70124
- Robert A. Brossette, Jr., P.E.**
P.O. Box 60340
New Orleans, LA 70160
- Harry Broussard**
829 N. Sibley
Metairie, LA 70003
- Rene J. Broussard**
4921 Sherwood Dr.
New Orleans, LA 70128
- Reynold D. Broussard, P.E.**
Box #5044, Contract Sta. 20
New Orleans, LA 70118
- Richard W. Broussard**
3405 Clifford Dr.
Metairie, LA 70002
- Wayne B. Broussard**
114 Jay St.
Belle Chasse, LA 70037
- Brenda L. Brown**
111 Cambridge Dr.
Belle Chasse, LA 70037
- Frederick J. Brown, P.E.**
111 Cambridge Dr.
Belle Chasse, LA 70037
- Raymond G. Bryant, P.E.**
6119 Perlita St.
New Orleans, LA 70122
- Ross V. Bubrig, P.E.**
121 Magnolia Dr.
Belle Chasse, LA 70037
- David E. Buck, P.E.**
365 Canal St., Suite 3000
New Orleans, LA 70140
- Loring Bugbee, Jr., P.E.**
P.O. Box 61000
New Orleans, LA 70161
- Robert A. Buisson, Jr., P.E.**
3604 Richland Ave.
Metairie, LA 70002
- Michael A. Buras**
6405 Camphor St.
Metairie, LA 70003
- Ronald H. Burch, P.E.**
7308 Windsor Dr.
Harahan, LA 70123
- Ernest A. Burguières, Jr., P.E.**
5518 Fountainbleau Dr.
New Orleans, LA 70125
- Roy B. Burkart, P.E.**
53 Martin Dr.
New Orleans, LA 70126
- Brian J. Burke**
109 Roselyn Dr.
New Orleans, LA 70114
- Errol J. Burke, P.E.**
6227 Louisville St.
New Orleans, LA 70124
- Courtney C. Busch, P.E.**
4805 Folse Dr.
Metairie, LA 70002
- Raymond L. Caballero**
527 Magnolia St.
New Orleans, LA 70112
- Richard J. Cabiro, P.E.**
709 Carmenere Dr.
Kenner, LA 70062
- Robert D. Caire**
1519 Audubon St.
New Orleans, LA 70118
- Frank L. Calandro, P.E.**
98 Sedgefield Dr.
New Orleans, LA 70123
- Kenneth P. Callaway, P.E.**
4609 Dreyfous Ave.
Metairie, LA 70002
- Henry J. Calongne, P.E.**
P.O. Box 10008
Jefferson, LA 70181
- Barry E. Cambeilh**
4613 Jeannette Dr.
Metairie, LA 70003
- Nicholas Camillone**
3915 S. Inwood Ave.
New Orleans, LA 70114
- Nickie G. Cammarata**
616 Kent Ave.
Metairie, LA 70001
- Kohlman Campbell, P.E.**
4408 Courtland Dr.
Metairie, LA 70002
- Mason M. Campbell**
3913 I-10 Service Rd. Apt. 210
Metairie, LA 70002
- Thomas A. Canale, P.E.**
1701 Green St.
Metairie, LA 70001
- Donald L. Canavier**
169 Macque Dr.
Harahan, LA 70123
- Warren E. Cancienne, Jr., P.E.**
148 Virginia Pkwy.
River Ridge, LA 70123

David R. Candler
815 Lyons St.
New Orleans, LA 70115

Raymond Canzoneri, P.E.
5029 Hearst Ave.
Metairie, LA 70001

A.S. Caplan, P.E.
4204 Vincennes Pl.
New Orleans, LA 70125

Roy G. Cappel, P.E.
114 Mulberry Dr.
Metairie, LA 70005

Russell Cardella
1609 Michigan Ave.
Kenner, LA 70062

David J. Cardon, P.E.
2245 Westermere St.
Harvey, LA 70058

Brian S. Carr
P.O. Box 6056
New Orleans, LA 70174

Troy Carter
11030 Roger Dr. Apt. B
New Orleans, LA 70127

Roy A. Cartier, P.E.
P.O. Box 1212
Mandeville, LA 70448

Gerard P. Caruso, P.E.
1020 Wilson Dr.
New Orleans, LA 70119

Jules A. Carville, Jr., P.E.
Drawer L
La Place, LA 70068

Thomas E. Carville, P.E.
1402 Main
La Place, LA 70068

John R. Cashen, II
4747 Earhart Blvd.
New Orleans, LA 70125

Ross B. Cashion, Jr., P.E.
517 Elise Ave.
Metairie, LA 70003

Lloyd D. Cason, Jr., P.E.
3710 Rue Colette
New Orleans, LA 70114

Jerry J. Casso, P.E.
P.O. Box 61000
New Orleans, LA 70161

Clarence R. Caster, Jr., P.E.
350 Walter Rd.
New Orleans, LA 70123

John W. Catledge
Box 61520 Eng. Dept.
New Orleans, LA 70161

Mehmet E. Celebi, P.E.
225 Baronne Bldg. Suite 1414
New Orleans, LA 70112

Rosario J. Centanni
#46 Moselle Dr.
Kenner, LA 70062

Henry G. Chapman, P.E.
730 S. Tonti
New Orleans, LA 70153

Gilbert J. Chatagnier, III, P.E.
6644 Colbert St.
New Orleans, LA 70124

Frederic M. Chatry, P.E.
8905 Ormond Place
New Orleans, LA 70123

Clifford J. Chevis
4633 Newlands St.
Metairie, LA 70003

Marc Chevis
1200 St. Charles Ave.
New Orleans, LA 70130

Warren A. Chigoy
1600 South Peter St.
New Orleans, LA 70130

Gina Chryssoverges
617 Ridgewood Dr.
Metairie, LA 70001

Joseph Chryssoverges
1529 Palm St.
Metairie, LA 70001

Louis B. Chryssoverges
617 Ridgewood Dr.
Metairie, LA 70001

Edward H. Clay, III
P.O. Box 60035, BNO Bldg.
New Orleans, LA 70160

Christy A. Clement, Jr., P.E.
3216 Maine Ave.
Kenner, LA 70062

Martyn A. Clouatre
120 Walter Scott St. Apt. #23
Jefferson, LA 70121

Allen R. Coates, P.E.
2920 Kingman St.
Metairie, LA 70002

John H. Coates, Jr.
4100 Clematis St.
New Orleans, LA 70122

C. M. Cockrell, P.E.
6539 Gen. Diaz St.
New Orleans, LA 70124

David Code
1914 Karl St.
Arabi, LA 70032

Paul E. Coe, Jr., P.E.
P.O. Box 7460
New Orleans, LA 70010

Karen E. Cofield
P.O. Box C83B 64 Newcomb
New Orleans, LA 70118

John E. Coles, P.E.
1600 S. Peters St.
New Orleans, LA 70130

Harry D. Collins, P.E.
2024 Audubon St.
New Orleans, LA 70118

J.H. Collins, Sr., P.E.
5830 Memphis St.
New Orleans, LA 70124

James H. Collins, P.E.
1421 Broadway St.
New Orleans, LA 70118

Kenneth L. Comeaux
6801 Blanke St.
Metairie, LA 70003

D. W. Compton
3204 41st St.
Metairie, LA 70001

Charles Conti
3919 Isabel
Jefferson, LA 70121

William B. Conway, P.E.
6226 Marquette Pl.
New Orleans, LA 70118

Robert M. Cook, P.E.
1340 Beverly Gardens Dr.
Metairie, LA 70002

W. D. Copeland
P.O. Box 8090
Metairie, LA 70011

John J. Cordaro, P.E.
P.O. Box 61000
New Orleans, LA 70161

Adrian B. Cordes, P.E.
565 Kenmore Dr.
Harahan, LA 70123

Carlos A. Cordon, P.E.
113 Rue Royal
Slidell, LA 70458

Jerry A. Core
1250 Poydras
New Orleans, LA 70112

Domingo M. Correa, P.E.
#6 Richland Ct.
Metairie, LA 70001

R. D. Cosgrove, P.E.
2846 State
New Orleans, LA 70118

James D. Cospolich, P.E.
61 Rosedown Dr.
Destrehan, LA 70047

Vincent F. Cottone, P.E.
5617 Parkaire Dr.
Metairie, LA 70003

James H. Couturie, P.E.
1104 American Bank Bld.
New Orleans, LA 70130

James A. Craighead
P.O. Box 100
Meraux, LA 70075

Stephen M. Crane
1200 St. Charles Ave.
New Orleans, LA 70130

Chas. C. Crawford
210 Baronne St.
New Orleans, LA 70112

Bruce P. Creighton
2217 Ridgelake Dr.
Metairie, LA 70001

L. Cressy, Jr., P.E.
1200 St. Charles Ave.
New Orleans, LA 70130

Ronald P. Cressy, P.E.
3234 Desoto St.
New Orleans, LA 70119

Clyde W. Crochet
5747 Bancroft Dr.
New Orleans, LA 70122

Clyde C. Crockett, P.E.
3625 Ridgeway Dr.
Metairie, LA 70002

Bob Crosser
P.O. Box 53093
New Orleans, LA 70153

John A. Crutti, P.E.
3824 Greenbriar Lane
Harvey, LA 70058

Nickolas J. Cuccia, P.E.
2424 Barracks St.
New Orleans, LA 70119

Clyde J. Cucullu, P.E.
5400 Chatham Dr.
New Orleans, LA 70126

Lionel J. Cucullu, P.E.
4630 Arts St.
New Orleans, LA 70122

Melissa L. Cummins
P.O. Box 23704
Harahan, LA 70183

Curtis Cunningham
P.O. Box 61812
New Orleans, LA 70161

Fred J. Cunningham, P.E.
1905 Hickory Ave.
Harahan, LA 70123

Joe Cunningham
1310 Helois Ave.
Metairie, LA 70005

Charles V. Cusimano, P.E.
3636 N. Causeway Suite 200
Metairie, LA 70002

Dennis R. Cutcher
100 Hamilton Rd. #C
Gretna, LA 70053

Michael H. Czerwinski, P.E.
365 Canal St. Suite 1560
New Orleans, LA 70140

Joseph V. D'Amico
4726 Owens Blvd.
New Orleans, LA 70122

Arthur F. D'Aquin, Jr., P.E.
P.O. Box 61520
New Orleans, LA 70161

Sidney I. Daigle, P.E.
437 Philip St.
New Orleans, LA 70130

Carolyn Daigre
1212 Colony Rd.
Metairie, LA 70003

Frank J. Dalia, P.E.
43 Imperial Woods Dr.
Harahan, LA 70123

Joseph V. Damico
1735 Tchoupitoulas St.
New Orleans, LA 70130

Emmett G. Dammon, Jr., P.E.
103 Marina Lane
Slidell, LA 70458

Eugene Damron
2355 Holiday Dr.
New Orleans, LA 70114

John Dane, III, P.E.
201 Fairway Dr.
New Orleans, LA 70124

Susan Danielson
2821 Esplanade Ave. Apt. #1
New Orleans, LA 70119

Elvin J. Dantin, Jr.
2108 Krisma St.
Metairie, LA 70001

Patrick L. Darby
2005 Genes Dr.
Harahan, LA 70123

Arthur D. Darden, P.E.
1040 International Trade Mart
New Orleans, LA 70130

Reno J. Daret, Jr.
1312 Broadway
New Orleans, LA 70118

Ujjal Dasgupta
1010 Common St.
New Orleans, LA 70160

Kenneth J. Daspit, P.E.
Rt. 1, 312 Wade St.
Luling, LA 70070

Harry R. Davies, Jr., P.E.
312 Brockenbraugh Ct.
Metairie, LA 70005

David G. Davis, P.E.
7-A Jacqueline St.
Harvey, LA 70058

Donald Davis
4617 Kawanee Ave.
Metairie, LA 70002

George B. Davis, P.E.
34 Mistletoe Dr.
Covington, LA 70433

Peter E. Debogory
426 Homestead Ave.
Metairie, LA 70005

Harold J. Debray, P.E.
300 Poydras St. 21st Floor
New Orleans, LA 70130

Rick Deckbar
3801 Colorado
Kenner, LA 70062

Charles W. Decker, P.E.
2527 Claiborne St.
Mandeville, LA 70448

Albert V. Deckert, Jr., P.E.
840 Union St.
New Orleans, LA 70112

Joseph C. Deckert, P.E.
1401 Destrehan Ave.
Harvey, LA 70058

David Decorte
3476 Esplanade Ave.
New Orleans, LA 70119

Kenneth M. Decossas, P.E.
6529 General Diaz St.
New Orleans, LA 70124

John J. Defourreaux
405 Harang Ave.
Metairie, LA 70001

Wallace V. Degruy, P.E.
1524 Filmore Ave.
New Orleans, LA 70122

Andries D. Dehaan
3000 Magazine St.
New Orleans, LA 70115

Michael H. Deharde
423 East St. Avide
Chalmette, LA 70043

Thomas J. Deharde
442 Incarnate Word Dr.
Kenner, LA 70062

Oliver S. Delery, Jr.
P.O. Box 50520
New Orleans, LA 70150

Mack H. Deloney, P.E.
P.O. Box 6261
New Orleans, LA 70114

Curtis L. Denson, P.E.
4317 Cleveland Pl.
Metairie, LA 70003

Leonidas L. Denson, P.E.
Commerce Bldg, Suite 800
New Orleans, LA 70112

Frank M. Denton, P.E.
P.O. Box 4392
New Orleans, LA 70178

Earl P. Desselle, P.E.
8817 W. Judge Perez Dr.
Chalmette, LA 70043

Lanier H. Devine, P.E.
P.O. Box 1012
Mandeville, LA 70448

L. L. De Salignac
3811 Octavia St.
New Orleans, LA 70125

Alfred J. Diamond, P.E.
5918 Chatham Dr.
New Orleans, LA 70122

Mark Diamond
5918 Chatham Dr.
New Orleans, LA 70122

Kenneth P. Diasselliss
3220 Maryland Ave.
Kenner, LA 70062

Gerald J. Dicharry, P.E.
1813 Francis Ave.
Metairie, LA 70003

Rudy J. Dietrich, P.E.
4450 Gen Degaulle Dr.
New Orleans, LA 70114

Richard M. Digiovanni
Rt. 2 Box 1102
Destrehan, LA 70047

Stanley G. Dinkel, P.E.
5945 Argonne Blvd.
New Orleans, LA 70124

Glen S. Dinwiddie, P.E.
4104 Alabama #13
Kenner, LA 70062

James M. Dixon, P.E.
5258 Veterans Blvd. Ste. D
Metairie, LA 70002

Peter A. Dixon
1010 Common St.
New Orleans, LA 70160

Earl S. Dobbs, P.E.
6060 Pratt Dr.
New Orleans, LA 70122

William H. Dobson, P.E.
628 Jackson Ave.
Mandeville, LA 70448

Fritz E. Dohse, P.E.
6242 Curie St.
New Orleans, LA 70122

Nick G. Dokos, P.E.
2747 Danbury Dr.
New Orleans, LA 70114

James D. Doles
1200 St. Charles Ave.
New Orleans, LA 70130

David M. Donovan
1200 St. Charles Ave.
New Orleans, LA 70130

Michael A. Donsbach, P.E.
49 Schill Ave.
Kenner, LA 70062

Michael V. Doran
820 Homestead Ave.
Metairie, LA 70005

B. M. Dornblatt, P.E.
P.O. Box 50254
New Orleans, LA 70150

Glenn Doucet
3016 Chalona Dr.
Chalmette, LA 70043

August H. Douglas, Jr., P.E.
1820 Milan St.
New Orleans, LA 70115

Edward J. Downey, P.E.
74 Brittany Dr.
Kenner, LA 70062

Russell K. Doyle, P.E.
2000 Madison St.
Metairie, LA 70001

Michael R. Dragland
3108 Phoenix St. #D
Kenner, LA 70062

J. L. Dressel, P.E.
Box 26156
New Orleans, LA 70186

Tommy N. Dubone, P.E.
2627 Banks St.
New Orleans, LA 70119

Donald R. Ducote
P.O. Box 169
Destrehan, LA 70047

Robert P. Ducote, P.E.
753 Carrollwood VI. Dr. #271
Gretna, LA 70053

Douglas A. Duet, P.E.
4952 Sherwood Dr.
New Orleans, LA 70128

Rennan Duffour
9751 W. Rockton Circle
New Orleans, LA 70127

Carlton F. Dufrechou
3515 Melvil Dewey Ste. 112
Metairie, LA 70002

Tildon J. Dufrene, Jr., P.E.
2132 Empire Pl.
Gretna, LA 70053

Robert A. Duncan
P.O. Box 520
Kenner, LA 70062

Wallace E. Dunn, P.E.
218 Medinah Court
La Place, LA 70068

Lawrence Duracher 5021 General Diaz New Orleans, LA 70124	Thomas G. Ehrlicher, P.E. 1200 St. Charles Ave. New Orleans, LA 70130	Lewis S. Farinholt 39 Echezeaux Dr. Kenner, LA 70062	Marvin L. Firmin, P.E. 6630 Avenue B New Orleans, LA 70124
A. W. Durning, P.E. 12 Forest Ave. Metairie, LA 70005	Ahmed S. El-Ariny, P.E. 600 Helois St. Metairie, LA 70005	Nicholas B. Faris, Jr. P.O. Box 13866 New Orleans, LA 70185	Frank P. Fischer, Jr., P.E. P.O. Box 10513 Jefferson, LA 70181
Charles Dusenbury, P.E. 11 Crane St. New Orleans, LA 70124	Claude K. Elkins, Jr., P.E. 365 Canal St. Suite 590 New Orleans, LA 70140	Donald F. Farrelly, P.E. 424 Llama Dr. Arabi, LA 70032	Arnold R. Fisher, P.E. 5105 Bissonet Dr. Metairie, LA 70003
L. J. Dutreil, P.E. 200 Nelson Dr. Harahan, LA 70123	Frank W. Elliott, Jr. 110 Vernon St. Belle Chasse, LA 70037	Holt H. Fastring, P.E. 4726 Donna Dr. New Orleans, LA 70127	Charles L. Fisher, P.E. 4624 Wright Rd. New Orleans, LA 70128
Ralph D. Dwyer, III 4176 Canal St. New Orleans, LA 70119	William C. Ellis, Jr., P.E. 5418 S. Miro St. New Orleans, LA 70125	Dale P. Faucheux 1200 St. Charles Ave. New Orleans, LA 70130	Patrick W. Fisher 6234 Brunswick Ct. New Orleans, LA 70114
William A. Dyer, P.E. 132 Willow Dr. Gretna, LA 70053	William C. Ellis, Sr., P.E. 145 Fairway Dr. New Orleans, LA 70124	James E. Faulk, P.E. Rt. 3 Box 3546A Slidell, LA 70458	John H. Fiske P.O. Box 61961 New Orleans, LA 70160
James P. Dyer, P.E. 213 Robinhood Dr. Covington, LA 70433	John B. Elstrott, P.E. Box 24020 New Orleans, LA 70124	Wesley E. Faulkner, P.E. 611 Brockenbraugh Ct. Metairie, LA 70005	John J. Flanagan, P.E. 4809 Church St. Metairie, LA 70001
Jesse G. Dykes, P.E. 276 Cindy Lou Place Mandeville, LA 70448	Andrew J. Englande, Jr., P.E. 2512 Creely Dr. Chalmette, LA 70043	Mark H. Faust 4820 Janice Ave. Kenner, LA 70062	John P. Fleming, P.E. 800 Commerce Rd. E #211 New Orleans, LA 70123
Vancle E. Dykes, P.E. 1920 Fordham Pl. Gretna, LA 70053	John A Ernst 29 Elaine Ave. Harahan, LA 70123	Francis J. Favaloro, P.E. 1600 S. Peters St. New Orleans, LA 70130	Carl F. Flettrich, P.E. 651 Richard St. New Orleans, LA 70130
Charles A. Eakin, P.E. 335 Audubon Blvd. New Orleans, LA 70125	Gilberto J. Escobar 1019 Roosevelt Blvd. Kenner, LA 70062	Tony E. Favaloro 1242 Hesper Ave. Metairie, LA 70005	David C. Flettrich, P.E. P.O. Box 19407 New Orleans, LA 70179
Holmes Earl, P.E. 27 Killdeer St. New Orleans, LA 70124	Fernando J. Estopinal, III, P.E. 2734 Cupid St. New Orleans, LA 70114	Harold F. Favret, P.E. 144 W. Livingston Pl. Metairie, LA 70005	Harold L. Flettrich, P.E. P.O. Box 19407 New Orleans, LA 70179
Ralph Earl, P.E. 2125 Leonidas St. New Orleans, LA 70118	Charles L. Eustis, P.E. P.O. Box 8708 Metairie, LA 70011	James E. Favret, P.E. 226 Brockenbraugh Ct. Metairie, LA 70005	Michael W. Flores, P.E. 2701 Independence St. Metairie, LA 70002
Joseph P. Ebey 3825 Ridgelake Dr. #312 Metairie, LA 70002	J. B. Eustis, P.E. P.O. Box 8708 Metairie, LA 70011	James C. Fennell, P.E. P.O. Box 395 Belle Chasse, LA 70037	Lionel E. Flotte, Jr., P.E. 2908 Hessmer Ave. Metairie, LA 70002
Jose A. Echeverria 5206 Alphonse Ct. Metairie, LA 70002	Robert E. Evans, P.E. 4502 S. Carrollton New Orleans, LA 70119	Fred Fereidonni, P.E. P.O. Box 52085 New Orleans, LA 70152	Lionel E. Flotte, Sr., P.E. 3201 Rue Parc Fontaine Apt. 2906 New Orleans, LA 70114
Barry P. Edgecombe, P.E. 329 Country Club Blvd. Slidell, LA 70458	J. P. Ewin, Jr., P.E. 7303 Freret St. New Orleans, LA 70118	Lyle W. Ferguson, P.E. 410 Turquoise St. New Orleans, LA 70124	Paul H. Flower, P.E. P.O. Box 13547 New Orleans, LA 70125
Hero J. Edwards, Jr., P.E. P.O. Box 60340 New Orleans, LA 70160	John F. Exnicios, P.E. 5370 Charlotte Dr. New Orleans, LA 70122	John D. Fernandez, Jr., P.E. 1200 St. Charles Ave. New Orleans, LA 70130	J. T. Floyd, P.E. P.O. Box 598 Harvey, LA 70058
Joseph F. Egan, Jr. 5430 S. Claiborne Ave. New Orleans, LA 70125	John F. Fager, P.E. P.O. Box 61000 New Orleans, LA 70161	John P. Fernandez, P.E. 522 Crystal St. New Orleans, LA 70124	Harold J. Flynn, P.E. 167 Holly Dr. La Place, LA 70068
John M. Ehlers 4236 Palmyra St. New Orleans, LA 70119	Robert Falcon 3770 Lake Barrington Dr. New Orleans, LA 70128	M. Day Fezler, III, P.E. 5824 Laurel St. New Orleans, LA 70115	Prescott H. Follett, P.E. 822 Baronne St. New Orleans, LA 70113
Lucas H. Ehrensing, P.E. 7930 Oak St. New Orleans, LA 70118	Harold E. Faller, P.E. 508 Collidge St. Jefferson, LA 70121	James C. Finley, P.E. P.O. Box 4277 New Orleans, LA 70118	John O. Folse, P.E. 1507 Upperline St. New Orleans, LA 70115

- Ralph P. Fontcuberta, Jr.**
P.O. Box 836
Metairie, LA 70004
- Paul V. Fonte, P.E.**
P.O. Box 26
Belle Chasse, LA 70037
- David N. Ford, P.E.**
6224 York St.
New Orleans, LA 70115
- Harold N. Ford, P.E.**
2320 Lark St.
New Orleans, LA 70122
- Clare M. Foreman, P.E.**
P.O. Box 61520
New Orleans, LA 70161
- William A. Foret, Jr., P.E.**
1713 Manson Ave.
Metairie, LA 70001
- Billy R. Foster, P.E.**
P.O. Box 26493
New Orleans, LA 70126
- Paul J. Fourchy**
213 Jade Ave.
Metairie, LA 70003
- Theodore P. Fowler**
429 Brookmeade Dr.
Gretna, LA 70053
- Frederick H. Fox, P.E.**
1437 Calhoun St.
New Orleans, LA 70118
- Palmer J. Fraering, P.E.**
4012 Cleveland Pl.
Metairie, LA 70003
- Luigi Francillo, P.E.**
6579 Vicksburg St.
New Orleans, LA 70124
- Henry J. Franklin, P.E.**
671 Rosa Ave.
Metairie, LA 70005
- Albert J. Fransen, P.E.**
201 Ringold St.
New Orleans, LA 70124
- Richard W. Freedman**
Tulane Univ. Dept. of Chem. Engr.
New Orleans, LA 70118
- J. J. Freeman, P.E.**
1200 St. Charles Ave.
New Orleans, LA 70130
- Wharrell Freeman, P.E.**
3512 5th St.
Metairie, LA 70002
- W. H. French, P.E.**
4200 James Dr.
Metairie, LA 70003
- Edwin P. Fricke**
405 La Salle Dr.
River Ridge, LA 70173
- David B. Fried, Jr., P.E.**
6027 Chatham Dr.
New Orleans, LA 70122
- Frank C. Fromherz, II, P.E.**
4747 Earhart Blvd.
New Orleans, LA 70125
- Frank C. Fromherz, P.E.**
1327 Pine St.
New Orleans, LA 70118
- Thomas A. Fromherz, P.E.**
4747 Earhart Blvd.
New Orleans, LA 70125
- William W. Frye, Jr., P.E.**
P.O. Box 61961
New Orleans, LA 70161
- Joseph M. Fuchs**
4444 Lafaye St.
New Orleans, LA 70122
- Forney Fuller, Jr., P.E.**
P.O. Box 24151
New Orleans, LA 70123
- Kendall A. Gaddy, P.E.**
Freeport Chem. Co. Uncle Sam Plt.
Uncle Sam, LA 70792
- Nicholas J. Gagliano, P.E.**
P.O. Box 7460
Metairie, LA 70010
- P. K. Galvin**
P.O. Box 1898
Kenner, LA 70063
- Peter S. Gambel**
1225 Pine St.
New Orleans, LA 70118
- Donald Gandolfi**
5032 Wade Dr.
Metairie, LA 70003
- Ken Gandolfi**
2001 Cleary Ave.
Metairie, LA 70001
- Thomas G. Gandolfi**
1621 Newport #15
Kenner, LA 70062
- Emilio C. Garcia, P.E.**
441 Gravier St.
New Orleans, LA 70130
- Emilio C. Garcia, Jr.**
2672 Mexico St.
New Orleans, LA 70122
- Thomas F. Gardner, P.E.**
405 Florida Blvd.
New Orleans, LA 70124
- William E. Garity, P.E.**
1001 Howard Ave. Ste. 2103
New Orleans, LA 70113
- John A. Garth**
P.O. Box 29266
New Orleans, LA 70189
- Lloyd F. Gaubert**
P.O. Box 50500
New Orleans, LA 70150
- Dennis L. Gautreau**
2557 E. Catawba Dr.
Harvey, LA 70058
- Boyd T. Gautreaux, P.E.**
Rt. 1 325 River Oaks Dr.
Luling, LA 70070
- Dale D. Geerdes, P.E.**
913 Champagne Dr.
Kenner, LA 70062
- Kelly P. Geohegan**
1200 St. Charles Ave.
New Orleans, LA 70130
- P. Casey Geohegan**
4111 Pratt St.
Kenner, LA 70062
- Kimberly George**
1413 Genere
Harahan, LA 70123
- David Gereighty**
257 Bonnabel Blvd.
Metairie, LA 70005
- Roy A. Giangrosso, P.E.**
4718 Perelli Dr.
New Orleans, LA 70127
- Gerard J. Gianoli**
4721 Lakewood Dr.
Metairie, LA 70002
- John W. Giardina, Jr.**
4176 Canal St.
New Orleans, LA 70119
- Thomas S. Gibson, P.E.**
1513 Curtis St.
Harvey, LA 70058
- John B. Giddens, Jr., P.E.**
7303 Freret St.
New Orleans, LA 70118
- William J. Gieseler, P.E.**
Weatherby Eng. One Canal Pl.
New Orleans, LA 70130
- James G. Gilbert, P.E.**
Rt. 1 Box 585B
Belle Chasse, LA 70037
- Julian S. Gills**
1001 Howard Ave. #2103
New Orleans, LA 70113
- Sharon P. Ginn**
103 Orchard Rd.
River Ridge, LA 70123
- Nanette Giraud**
4300 Cleveland Pl.
Metairie, LA 70003
- Robert J. Giraud**
4300 Cleveland Pl.
Metairie, LA 70003
- Gamil B. Girgis, P.E.**
4212 Loire Dr.
Kenner, LA 70062
- Louis E. Girling, P.E.**
1200 St. Charles Ave.
New Orleans, LA 70130
- Gerard Giroir, Jr.**
2430 Division St.
Metairie, LA 70001
- Mayer Godchaux**
P.O. Box 15680
New Orleans, LA 70115
- Walter Godchaux, Jr. P.E.**
1308 Philip St.
New Orleans, LA 70130
- Steven N. Going**
UNO P.O. Box 977
New Orleans, LA 70122
- Harry G. Goldstein, P.E.**
1539 Jackson Ave.
New Orleans, LA 70130
- Robert M. Goldstein, P.E.**
1539 Jackson Ave.
New Orleans, LA 70130
- J. M. Gondran**
8228 Panola St.
New Orleans, LA 70118
- Roger Gonzales**
514 Phosphor Ave.
Metairie, LA 70005
- Timothy J. Gooding, P.E.**
P.O. Box 6261
New Orleans, LA 70174
- Ferdinand C. Goodrich**
NOPSI Unit 107
New Orleans, LA 70130
- James R. Gore, P.E.**
P.O. Box 8867
Metairie, LA 70011
- Haorلد J. Gorman, P.E.**
5528 Pitt St.
New Orleans, LA 70115
- Denis B. Grace, P.E.**
4108 Inwood Ave.
New Orleans, LA 70114
- James B. Graham, P.E.**
P.O. Box 23353
New Orleans, LA 70183
- Arthur G. Grant, P.E.**
1745 NBC Bldg.
New Orleans, LA 70112
- Charles L. Graves, P.E.**
210 Baronne St. Suite 1217
New Orleans, LA 70112
- Barry D. Green**
4052 Paige Jancite
Harvey, LA 70058

Alan Greenacre, P.E. 1200 St. Charles Ave. New Orleans, LA 70130	Malcolm A. Guillot, P.E. 1221 Behrman Ave. New Orleans, LA 70114	Guy Hardwick 2501 N. Sibley St. Metairie, LA 70003	G. G. Hebert, P.E. 131 S. St. Patrick St. New Orleans, LA 70119
Harbert S. Gregory, P.E. P.O. Box 8726 New Orleans, LA 70182	Donato E. Guiza, P.E. 207 Sena Dr. Metairie, LA 70005	Frederick W. Harmeyer, P.E. P.O. Box 61961 New Orleans, LA 70160	Leonard B. Hebert, Jr., P.E. P.O. Box 26487 New Orleans, LA 70186
Robert H. Grehan, P.E. 2607 St. Charles Ave. New Orleans, LA 70130	Bobby G. Gunn, P.E. 2133 S. Glencove Gretna, LA 70053	Allan J. Harris, P.E. P.O. Box 9024 Metairie, LA 70055	Leslie E. Hebert, Jr., P.E. 317 River Oaks Dr. Luling, LA 70070
Robert H. Griffin, P.E. 270 Oak Alley Dr. Pearl River, LA 70452	Friedrich W. Gurtler P.O. Box 13807 New Orleans, LA 70185	Alphonso Harris, Jr. 4513 St. Anthony Ave. New Orleans, LA 70122	William M. Hebert III, P.E. P.O. Box 61520 New Orleans, LA 70161
Grover B. Grimes #8 Willow Dr. Gretna, LA 70053	Martin M. Gurtler, P.E. P.O. Box 13807 New Orleans, LA 70185	Barton W. Harris 1200 St. Charles Ave. New Orleans, LA 70130	Adolph Hedegard, Jr., P.E. 4751 Hickerson Dr. New Orleans, LA 70127
George J. Groh, P.E. 751 Tchoupitoulas St. New Orleans, LA 70130	J. Mark Haas 3701 W. Napoleon #301 Metairie, LA 70001	John J. Harris, Jr., P.E. 1620 Frankel Ave. Metairie, LA 70003	Charles S. Hedges, P.E. 1440 Canal Suite 1913 New Orleans, LA 70112
Greg A. Gross 519 Tullulah Ave. River Ridge, LA 70123	Linda Haas 257 Garden Rd. River Ridge, LA 70123	Stanley J. Harris 904-A Vouray St. Kenner, LA 70062	Timothy Heffron 1036 Broadway New Orleans, LA 70118
Michael J. Gross P.O. Box 174 Luling, LA 70070	John A. Hasse, III, P.E. 5901 Vicksburg St. New Orleans, LA 70124	C. Harold Hart, Jr., P.E. 8200 Hampson St. New Orleans, LA 70118	G. A. Heft, P.E. 215 Vincent Ave. Metairie, LA 70005
Arthur T. Growden P.O. Box 73308 Metairie, LA 70033	Robert R. Haase, P.E. 424 South Anthony St. New Orleans, LA 70119	Edwin Hartzmann, P.E. 1139 Washington Ave. New Orleans, LA 70130	A. J. Heikamp, Jr., P.E. 3820 N. Woodlawn Metairie, LA 70002
Robert J. Grubb, P.E. 8131 Cohn St. New Orleans, LA 70118	Raymond J. Habisreitinger, P.E. P.O. Box 985 Lacombe, LA 70445	Randall J. Hasling 2732 S. Birchfield Harvey, LA 70058	Hans N. Heinemann, P.E. 9529 Robin Lane River Ridge, LA 70123
Lawrence C. Grundmann, P.E. P.O. Box 61532 New Orleans, LA 70161	Lauri Hackett P.O. Box C 501 New Orleans, LA 70118	Jimmy C. Hassenboehler, P.E. 4004 Delery Dr. Marrero, LA 70072	Lloyd A. Held, P.E. P.O. Box 8708 Metairie, LA 70011
Louis G. Gruntz, Jr., P.E. 316 Shrewsbury Ct. Jefferson, LA 70121	Carl B. Hakenjos P.O. Box 52677 New Orleans, LA 70150	James E. Hassinger, P.E. 2021 S. Carrollton Ave. New Orleans, LA 70118	M. Jay Hendrickson, P.E. 740 Canton St. New Orleans, LA 70121
Robert J. Grush, P.E. P.O. Box 7548 Metairie, LA 70010	Stephen S. Hall 3500 N. Causeway Blvd. URS Co Metairie, LA 70002	Clinton Hathaway, Jr. 1008 Lamanche St. New Orleans, LA 70117	Quenton V. Hensley, P.E. 4001 Division St. Metairie, LA 70002
M. R. Guell, P.E. P.O. Box 837 Bogalusa, LA 70427	Edwin N. Haller, Jr., P.E. 7759 Townsend Pl. New Orleans, LA 70126	Herbert E. Hauer, P.E. P.O. Box 60340 New Orleans, LA 70160	Henry A. Herbert, Jr. 317 33rd St. New Orleans, LA 70124
Albert H. Guerrero 1200 St. Charles Ave. New Orleans, LA 70130	Henry L. Hammett, P.E. P.O. Box 1579 Slidell, LA 70459	Kenneth R. Hava, P.E. 933 Hesper Ave. Metairie, LA 70005	William H. Herbst, P.E. 10 Forest Ave. Metairie, LA 70005
Donald J. Guidry, P.E. 44 Rosedown Dr. Destrehan, LA 70047	Gerald W. Hanafy, P.E. 1200 St. Charles Ave. New Orleans, LA 70130	Gerald M. Haydel, P.E. 600 Carondelet St. New Orleans, LA 70130	Jeffrey G. Herndon, P.E. P.O. Box 61532 New Orleans, LA 70161
J. M. Guillory, P.E. 308 Cuddihy Dr. Metairie, LA 70005	Ben J. Haney, P.E. 701 Pine St. New Orleans, LA 70118	Roger J. Haydel, Jr. 3709 Kim St. Metairie, LA 70001	Wesley W. Herndon 1010 Common St. New Orleans, LA 70160
Gerard J. Guillot 1400 Hillary Dr. Slidell, LA 70458	A'Alim A. Hannoura, P.E. Dept. of Civil Engr. UNO New Orleans, LA 70122	Thomas F. Heausler 1200 St. Charles Ave. New Orleans, LA 70130	Allen A. Hero, P.E. 429 Planters Canal Rd. Belle Chasse, LA 70037
John A. Guillot 1200 St. Charles Ave. New Orleans, LA 70130	John B. Hardey, Jr. 1909 Hall Ave. Metairie, LA 70003	David C. Hebert, P.E. 1200 St. Charles Ave. New Orleans, LA 70130	Numa C. Hero, P.E. 427 Planters Canal Rd. Belle Chasse, LA 70037

Walter T. Herrmann, P.E.
3801 Metairie Ct.
Metairie, LA 70002

Larry R. Heston, P.E.
P.O. Box 61520
New Orleans, LA 70161

Robert W. Hicks, P.E.
P.O. Box 52006
New Orleans, LA 70152

Victor C. Hicks
3705 Vincennes Pl.
New Orleans, LA 70125

Charles W. Hiers, P.E.
8030 Breakwater Dr.
New Orleans, LA 70124

Charlene M. Hill
4707 Richland Ave.
Metairie, LA 70002

George W. Hill
3651 Piedmont Dr.
New Orleans, LA 70122

Roy C. Hingle, P.E.
1422 Frankfort St.
New Orleans, LA 70122

H. J. Hinrichs, P.E.
74 Nern Pl.
New Orleans, LA 70118

Edward O. Hirschbeck, P.E.
39 Holly Dr.
La Place, LA 70068

An N. Hoang, P.E.
4854 Warren Dr.
New Orleans, LA 70127

Jacqueline Hoffner
P.O. Box C418
New Orleans, LA 70118

Joseph T. Hogan, P.E.
7305 O'Neil St.
Harahan, LA 70123

William J. Hogan
P.O. Box 9051
Metairie, LA 70055

Joseph A. Holland, P.E.
5517 Hawthorne Pl.
New Orleans, LA 70124

Eileen E. Hollander
317 Baronne St.
New Orleans, LA 70160

Jack D. Hollander
5436 S. Claiborne
New Orleans, LA 70125

Charles R. Holmes, Jr.
P.O. Box 29304 Stop 3511
New Orleans, LA 70189

Jerich Holzenthal
6178 Louisville St.
New Orleans, LA 70124

Leo L. Holzenthal, P.E.
6178 Louisville St.
New Orleans, LA 70124

Auther H. Honeycutt, P.E.
1521 Carnation Ave.
Metairie, LA 70001

Karen K. Honjo
4221 Clearview
Metairie, LA 70002

James R. Hooper, P.E.
4450 Gen. DeGaulle Dr.
New Orleans, LA 70114

Harry D. Hoskins, Jr., P.E.
600 Carondelet St.
New Orleans, LA 70130

Lawrence H. Hoskins
615 Exposition #1
New Orleans, LA 70118

S. E. Hottinger, Jr., P.E.
70 Hawk St.
New Orleans, LA 70124

John J. Housey, Jr., P.E.
Box 26307
New Orleans, LA 70186

Donald P. Howard, P.E.
13058 Calais
New Orleans, LA 70129

Daniel E. Howell
40 Thrasher St.
New Orleans, LA 70124

Robert E. Howson, P.E.
P.O. Box 60035
New Orleans, LA 70160

Martin L. Huber, P.E.
6801 Glenn St.
Metairie, LA 70003

William S. Huey, P.E.
7810 Nelson St.
New Orleans, LA 70125

E. F. Hughes, P.E.
4500 S. Miro St.
New Orleans, LA 70125

Gregory K. Hughes, P.E.
600 Carondelet St.
New Orleans, LA 70130

Donald F. Hull, P.E.
4613 Garden St.
Metairie, LA 70001

Falcolm E. Hull, P.E.
P.O. Box 60267
New Orleans, LA 70126

Dale T. Hunn, P.E.
1200 St. Charles Ave.
New Orleans, LA 70130

Malcolm L. Hurstell, P.E.
P.O. Box 60340
New Orleans, LA 70160

George W. Hurtt, P.E.
737 Robert Rd. Suite #2
Slidell, LA 70458

Norwood Hymel, P.E.
5653 Abbey Dr.
New Orleans, LA 70114

Emile Ianni
53 Allard Blvd.
New Orleans, LA 70119

James F. Ilgenfritz, P.E.
9609 Wildwood Dr.
New Orleans, LA 70123

Charles M. Illanne
2350 Park Pl. Apt. 63
Gretna, LA 70053

George M. Irwin, P.E.
P.O. Box 24020
New Orleans, LA 70124

George A. Isaac, P.E.
3609 45th St.
Metairie, LA 70001

Henry T. Issac, P.E.
21 Kings Canyon Dr.
New Orleans, LA 70114

Donald G. Iverson, P.E.
1200 St. Charles Ave.
New Orleans, LA 70130

Charles B. Ivy, P.E.
2013 N. Woodlawn Ave.
Metairie, LA 70001

Wayne J. Jablonowski
7000 Bunker Hill Rd.
New Orleans, LA 70127

Joan M. Jackman
6124 Clara St.
New Orleans, LA 70118

Frank J. Jackson, P.E.
P.O. Box 26457
New Orleans, LA 70186

Thomas L. Jackson, P.E.
4176 Canal St.
New Orleans, LA 70119

Gary R. Jacob, P.E.
4613 Henican Pl.
Metairie, LA 70003

David H. Jahnke, P.E.
7019 Crowder Rd. #122
New Orleans, LA 70127

Jay M. Jalenak, P.E.
P.O. Box 8544
Metairie, LA 70011

Margaret C. Janneck
#1 Bourg Court
Harahan, LA 70123

James S. Janssen, P.E.
225 Bellaire Dr.
New Orleans, LA 70124

Franklin M. Jarvis
7612 Michigan St.
New Orleans, LA 70128

William S. Jay
1200 St. Charles Ave.
New Orleans, LA 70130

Neill P. Jeffrey, Jr., P.E.
1833 Jena St.
New Orleans, LA 70115

Allen H. Jensen, P.E.
2700 Lakeshore Dr.
Mandeville, LA 70448

Gerard P. Jesclard, P.E.
No. 9 Sonia Place
New Orleans, LA 70121

Lisette Jimenez
1522 Millary St.
New Orleans, LA 70118

Stephen O. Johns, P.E.
1200 St. Charles Ave.
New Orleans, LA 70130

Erwin R. Johnson, P.E.
2203 Napoleon Ave.
New Orleans, LA 70115

James D. Johnson
P.O. Box 1328 UNO
New Orleans, LA 70122

Lee H. Johnson, P.E.
211 Fairway Dr.
New Orleans, LA 70124

Ray J. Johnson
2428 E. Sunnymede Dr.
Harvey, LA 70058

Roy E. Johnson, P.E.
3605 Neyrey St.
Metairie, LA 70002

Thomas H. Johnson, Jr.
3510 N. Causeway Blvd.
Metairie, LA 70002

Willie O. Johnson, P.E.
13518 Dwyer Blvd.
New Orleans, LA 70129

Dennis M. Johnston
3649 W. Loyola Dr.
Kenner, LA 70062

William H. Johnston, P.E.
5333 River Road
Harahan, LA 70123

Virgil G. Joiner
1200 St. Charles Ave.
New Orleans, LA 70130

Robert E. Jolissaint
1915 Pomona St. #3
Metairie, LA 70005

F. K. Jolls, P.E.
7208 Westminster Dr.
Harahan, LA 70123

Suman Jolly, P.E. P.O. Box 19925 New Orleans, LA 70179	Claude J. Kelly, Sr., P.E. 299 Audubon Blvd. New Orleans, LA 70125	Susan M. Kron 47 Versailles Blvd. New Orleans, LA 70118	Herrick J. Lane, Jr., P.E. P.O. Box 26131 New Orleans, LA 70126
C. P. Jones, P.E. 7915 Belfast St. New Orleans, LA 70125	Temple R. Kennedy, P.E. 3000 Magazine St. New Orleans, LA 70115	John W. Krupsky, P.E. 4441 Jasper St. Metairie, LA 70002	James B. Lane, P.E. 1200 St. Charles Ave. New Orleans, LA 70130
Robert S. Jones, P.E. 1717 Akron Ave. Metairie, LA 70003	James H. Kepper, III, P.E. 6528 Canal Blvd. New Orleans, LA 70124	Paul E. Kueser, P.E. P.O. Box 1899 Pittsburgh, PA 15230	Meinrad F. Lang, Jr. 6105 Ruth St. Metairie, LA 70003
Warren E. Jones 11010 Guildford Rd. New Orleans, LA 70127	Har G. Keswani, P.E. 3027 Ridgelake Dr. Metairie, LA 70002	Lyle F. Kuhlmann, P.E. P.O. Box 545 Madisonville, LA 70447	Meinrad F. Lang, P.E. P.O. Box 8818 Metairie, LA 70011
John A. Julian P.O. Box 8486 Metairie, LA 70011	Jon E. Khachaturian P.O. Box 1040 Harvey, LA 70059	Coleman Kuhn, P.E. 1428 F.N.B. of C. Bldg. New Orleans, LA 70112	Nathaniel T. Langlois, P.E. 4056 Thalia St. New Orleans, LA 70125
Ralph W. Junius, Jr., P.E. 651 Richard St. Suite 1A New Orleans, LA 70130	Fred H. Kinsley, P.E. 4016 Neyrey Dr. Metairie, LA 70002	Lloyd J. Kuhn, Jr., P.E. 1200 St. Charles Ave. New Orleans, LA 70130	E. Sorrell Lanier, P.E. 4101 Magazine St. New Orleans, LA 70115
Robert J. Kahl, III 2500 Whitney Pl. Apt. 2-301 Metairie, LA 70002	A. G. Kirkwood, P.E. P.O. Box 8446 Metairie, LA 70011	Joseph J. Lafranca, P.E. 1416 Melody Dr. Metairie, LA 70002	Michael E. Lanier 2516 Connecticut Kenner, LA 70062
Charles N. Kahn, Jr., P.E. 1109 Erato St. New Orleans, LA 70130	L. L. Kittrell, P.E. 3342 Hyman Pl. New Orleans, LA 70114	Paul M. Lagarde, P.E. 123 Elvis Ct. Metairie, LA 70001	Thomas C. Lanigan 562 Lake Ave. Metairie, LA 70005
Emile T. Kaler, Jr., P.E. P.O. Box 60340 New Orleans, LA 70160	George C. Kleinpeter, Jr., P.E. 76 Marie Dr. Gretna, LA 70053	Theodore J. Lala, P.E. P.O. Box 760 Kenner, LA 70062	Anthony P. Lanson, Jr. 5809 York St. Metairie, LA 70003
Noel P. Kammer 3527 Carondelet St. New Orleans, LA 70115	Remie J. Kliebert, P.E. 309 Eden Isles Dr. Slidell, LA 70458	Joseph A. Lalumia 527 Magnolia New Orleans, LA 70112	Fernand S. Lapeyre, P.E. 1224 Octavia St. New Orleans, LA 70115
David Kanter, P.E. 929 Howard Ave. New Orleans, LA 70113	William E. Knesal, Jr., P.E. 3301 Castle Dr. Kenner, LA 70062	Laurence L. Lambert, P.E. 4141 Veterans Blvd. Suite 214 Metairie, LA 70002	Michele M. LaPointe 3324 Metairie Court Metairie, LA 70002
Dale G. Karr, P.E. 2111 Octavia Dr. Chalmette, LA 70043	Daniel E. Knight, Jr., P.E. 3901 Ulloa St. New Orleans, LA 70118	Richard C. Lambert 518 Green Acres Rd. Metairie, LA 70003	Pendleton W. Larsen, Jr. 1200 St. Charles Ave. New Orleans, LA 70130
H. L. Keaton, P.E. Rt. 1 Box 229-C Bogalusa, LA 70427	Nat B. Knight, Jr., P.E. P.O. Box 467 Gretna, LA 70053	Alton A. Landry, P.E. 3312 Clifford Dr. Metairie, LA 70002	Shelby P. LaSalle, Jr., P.E. P.O. Box 19384 New Orleans, LA 70179
Thomas S. Keaty 2 Canal St. 1818 Int. Trade Mart. New Orleans, LA 70130	John C. Knoll 868 Martin Behrman #8 Metairie, LA 70005	John M. Landry, P.E. 3520 Haring Rd. Metairie, LA 70002	Palmer C. Latham 2244 Beck St. New Orleans, LA 70114
Charles Keller, Jr., P.E. 611 Gravier St. Rm. #909 New Orleans, LA 70130	Ernest W. Koehler, Jr. P.O. Box 26245 New Orleans, LA 70186	Onnel C. Landry P.O. Box 61000 New Orleans, LA 70161	Allison J. Launey, P.E. P.O. Box 61520 New Orleans, LA 70161
Deborah D. Keller 3221 Corner Dr. Chalmette, LA 70043	Henry R. Koen, Jr., P.E. P.O. Box 61000 New Orleans, LA 70161	Paul L. Landry, P.E. 1055 St. Charles Ave. Suite 415 New Orleans, LA 70130	Thomas T. Laurendine 935 Gravier St. New Orleans, LA 70112
George H. Kellerman 1001 Howard Ave. Suite 2103 New Orleans, LA 70113	Stanley P. Koltun, P.E. 5601 Avron Blvd. Metairie, LA 70003	Samuel K. Landry, P.E. 1905 Hickory Ave. Harahan, LA 70123	James A. Lawrence, P.E. 3104 Texas Kenner, LA 70062
Roy S. Kelley, P.E. 408 Green Acres Rd. Metairie, LA 70003	Harold F. Kraus, P.E. 544 Carol Dr. New Orleans, LA 70121	Samuel P. Landry, Jr., P.E. 1200 St. Charles Ave. New Orleans, LA 70130	Alan G. Lay, P.E. 1200 St. Charles Ave. New Orleans, LA 70130
Claude J. Kelly, Jr., P.E. 1 Trianon Plaza New Orleans, LA 70125	Joseph J. Krebs, Jr., P.E. 3013 27th St. Metairie, LA 70002	Walter A. Landry, P.E. 4721 Green Acres Ct. Metairie, LA 70003	Trang T. Le, P.E. 9750 W. Wheaton Circle New Orleans, LA 70127

Robert J. Leaber, Jr., P.E.
1200 St. Charles Ave.
New Orleans, LA 70130

John C. Lebas, Jr.
2056 Spanish Oaks Dr.
Harvey, LA 70058

Clyde H. LeBlanc, P.E.
2401 Rousseau St.
New Orleans, LA 70130

H. A. LeBlanc, Jr.
529 Pine St.
Norco, LA 70079

Joseph H. LeBlanc, P.E.
6850 Louis XIV
New Orleans, LA 70124

Owen V. LeBlanc, P.E.
6480 Argonne St.
New Orleans, LA 70124

Wharton A. LeBlanc, P.E.
P.O. Box 2101
Reserve, LA 70084

William R. Lecorgne, P.E.
P.O. Box 29266
New Orleans, LA 70189

Stanley M. Lecourt, P.E.
Rt. 4 Box 72 SL
Folsom, LA 70437

C. J. Ledoux, P.E.
1917 Hall Ave.
Metairie, LA 70003

Siwon R. Lee
3745 Stefano St.
Metairie, LA 70002

George V. Legardeur, P.E.
P.O. Box 269
Belle Chasse, LA 70037

Philip M. Legendre, P.E.
425 Seattle St.
New Orleans, LA 70124

Paul M. Legrand, II
P.O. Box 6261
New Orleans, LA 70174

August J. Lehman, P.E.
1935 Audubon St.
New Orleans, LA 70118

Louis N. Lehr, P.E.
364 Westmeade Dr.
Gretna, LA 70053

Wendel G. Leibe, P.E.
6887 West End Boulevard
New Orleans, LA 70124

Guy F. Lemieux, P.E.
3013 27th St.
Metairie, LA 70002

Brian Lemoine
801 Little Farms
Metairie, LA 70003

David J. Lemoine
1200 St. Charles Ave.
New Orleans, LA 70130

John A. Leo, P.E.
P.O. Box 61000
New Orleans, LA 70161

Marcel J. Leumas, Jr., P.E.
4913 Purdue Drive
Metairie, LA 70003

Katty E. LeVasseur
2017 N. Hullen St.
Metairie, LA 70001

Sidney J. Levet, III, P.E.
P.O. Drawer B
Garyville, LA 70051

David J. Levine, P.E.
6229 Bellaire Dr.
New Orleans, LA 70124

Raymond D. Levith, P.E.
3732 Diane Place
Metairie, LA 70002

Albert P. Levy, P.E.
4942 Chrysler St.
New Orleans, LA 70127

David P. Levy, P.E.
527 Legendre Dr.
Slidell, LA 70458

Bette M. Lewis
1111 Genes Dr.
Harahan, LA 70123

Sidney F. Lewis, P.E.
475 Fairway Dr.
New Orleans, LA 70124

Wesley Lewis
2809 Lake Villa Apt. 2
Metairie, LA 70002

Dominic J. Liberto, P.E.
286 Walter Road
Harahan, LA 70123

G. F. Liebkemann, P.E.
122 Sycamore Dr.
Metairie, LA 70005

H. A. Liles, P.E.
P.O. Box 13866
New Orleans, LA 70185

Donald L. Lindemann, P.E.
4759 Charlmack Dr.
New Orleans, LA 70127

Earl H. Lindsey, P.E.
P.O. Box 8726
New Orleans, LA 70182

Anthony J. Livaccari, Jr.
4223 Lime St.
Metairie, LA 70002

Yu-Chiao Lo, P.E.
4310 Caldwell
Metairie, LA 70001

William S. Lob
4609 Page Dr.
Metairie, LA 70003

Joseph Locicero, III
130 W. Claiborne
Chalmette, LA 70043

R. P. Lockett, Jr., P.E.
2130 Palmer Ave.
New Orleans, LA 70118

T. B. Lockett, P.E.
2130 Palmer Ave.
New Orleans, LA 70118

George C. Logan, P.E.
7500 Spring Lake Dr.
New Orleans, LA 70126

Jerry L. Logan
P.O. Box 493
Port Sulphur, LA 70083

Harry W. Lombard, P.E.
800 Commerce Rd. West
Harahan, LA 70123

Salvador E. Longo, P.E.
4728 Alphonse Dr.
Metairie, LA 70002

Jules A. Lorio
Rt. 2 Box 292-M
Slidell, LA 70458

Warren H. Lorio, P.E.
527 Magnolia St.
New Orleans, LA 70112

Robert J. Lorrige, P.E.
P.O. Box 61000
New Orleans, LA 70161

Ben Louviere, Jr., P.E.
3928 Peoples St.
Metairie, LA 70002

Gerard J. Lovelace, P.E.
303 Neil Ave.
New Orleans, LA 70114

Albert A. Lovell, P.E.
314 Country Club Blvd.
Slidell, LA 70458

John P. Lozes, Jr., P.E.
361 Jefferson Heights
New Orleans, LA 70121

David A. Lucio
2150 Westbank Expwy. Ste. 600
Harvey, LA 70058

Andrew L. Lukinovich, III
1010 Common
New Orleans, LA 70112

Curtis L. Lundstrom
3011 28th St., Box 8708
Metairie, LA 70011

Gerard J. Lynch
8201 Palm St. Apt. #209
New Orleans, LA 70118

Paul M. Lynch, P.E.
Tulane Univ. Dept. of
Mech. Eng.
New Orleans, LA 70118

Deborah L. Mabile
2137 Pasadena Ave. Apt. C
Metairie, LA 70001

Frank W. MacDonald, P.E.
2412 Calhoun St.
New Orleans, LA 70118

Richard A. MacDonald, Jr.
7313 Freret
New Orleans, LA 70118

Richard D. Mackie
317 Baronne St.
New Orleans, LA 70160

Robert J. MacLean
P.O. Box 19438
New Orleans, LA 70160

Henry I. Madden, P.E.
1200 St. Charles Ave.
New Orleans, LA 70130

James D. Maddox, P.E.
5605 Caterpillar Point
Harahan, LA 70123

Raymond P. Maddux, P.E.
216 N. Jayson Dr.
Slidell, LA 70458

Roger J. Maduell
3321 Carriage Place
Kenner, LA 70062

Earl J. Magner, Jr., P.E.
426 John Hopkins Dr.
Kenner, LA 70062

Jimmy L. Magouirk
204 Vermillion Dr.
Gretna, LA 70053

George J. Mahl, III, P.E.
7217 Westminster Dr.
Harahan, LA 70123

William W. Mahler, P.E.
P.O. Box 61961
New Orleans, LA 70161

Richard C. Maia
2536 Oakmere Dr.
Harvey, LA 70058

Martin J. Maier, P.E.
P.O. Box 60340
New Orleans, LA 70160

Donald C. Makofsky, P.E.
336 N. Jefferson Davis Pkwy.
New Orleans, LA 70119

Luis F. Maldonado, P.E.
573 E. Marlin Court
Gretna, LA 70053

Nicolas G. Malek, P.E.
2101 Butternut Ave.
Metairie, LA 70001

Ronald A. Mangipano, P.E. 3305 Veronica Dr. Chalmette, LA 70043	John K. Mayer, P.E. 2419 Audubon St. New Orleans, LA 70125	Patrick C. McKinney, P.E. 433 Picone Drive Harahan, LA 70123	Dannette M. Menge 801 Sena Dr. Metairie, LA 70005
Charles C. Mann, P.E. 4710 Marque Dr. New Orleans, LA 70127	Mayer Mayer, Jr., P.E. 5511 Chatham Dr. New Orleans, LA 70122	George E. McLean, P.E. 6605 Gillen St. Metairie, LA 70003	Ismail N. Merhi 2037 Taft Park Metairie, LA 70001
William L. Manning, P.E. 5500 Durham Dr. New Orleans, LA 70114	Jimmie R. Mayes, P.E. 5650 Pembroke Dr. New Orleans, LA 70114	Charles McLellan, P.E. P.O. Drawer P Belle Chasse, LA 70037	Donald L. Meriwether, P.E. 627 Second Ave. Harvey, LA 70058
John L. Marchese, P.E. 756 Fairfield Ave. Gretna, LA 70053	Eugene F. Mayo, P.E. 5205 Zenith St. Metairie, LA 70001	Edward A. McLellan, P.E. 1650 Robert St. New Orleans, LA 70115	Paul G. Merritt, P.E. 523 Turquoise St. New Orleans, LA 70124
Terri L. Margolin P.O. Box 1611 64 Newcomb Pl. New Orleans, LA 70118	Howard C. McAfee, P.E. 6020 Dover Pl. New Orleans, LA 70114	Gerald D. McLendon, P.E. 142 Delaronde St. New Orleans, LA 70114	Michael F. Mertens 408 32nd St. New Orleans, LA 70124
Michelle H. Marin 7021 Gasper Pl. Harahan, LA 70123	Samuel H. McAfee, P.E. 2838 Iberville New Orleans, LA 70119	Kenneth L. McManis, P.E. 4717 Purdue Metairie, LA 70003	Charles E. Meyer, P.E. P.O. Box 763 Metairie, LA 70004
Henry E. Markel, Jr., P.E. 7017 Argonne Blvd. New Orleans, LA 70124	Ronald J. McAlear, P.E. 708 Richard Bldg. New Orleans, LA 70112	E. J. McNamara, P.E. 1723 Oriole St. New Orleans, LA 70122	J. Meyer, Jr. 5037 Purdue Dr. Metairie, LA 70003
William A. Marko 2463 Park Place Dr. Gretna, LA 70053	R. W. McAllister, P.E. 5830 Abbey Dr. New Orleans, LA 70114	John E. McNamara, P.E. 3012 Kansas Ave. Kenner, LA 70062	Richard C. Meyer 4213 Heaslip Ave. Metairie, LA 70001
Harold O. Marquart 1305 May St. Franklinton, LA 70438	Allen W. McClure 8126 Zimpel St. New Orleans, LA 70118	Kenning J. McNamara, Jr., P.E. 108 St. James Dr. Gretna, LA 70053	Albert J. Meyers, P.E. 120 Spencer Ave. New Orleans, LA 70124
David W. Marshall 845 Fairfield Ave. Gretna, LA 70053	Wayne W. McConnell 1401 Destrehan Ave. Harvey, LA 70058	Kenneth McPherson 3703 Garden Oaks Dr., Apt. 282 New Orleans, LA 70114	Gerard J. Mialaret 2224 Pasadena Apt. 309 Metairie, LA 70001
John F. Marshall, P.E. P.O. Box 19384 New Orleans, LA 70179	Alan V. McCormick 3336 River Oaks Dr. New Orleans, LA 70114	Albert E. McSwain, Jr. 85 Chateau Magdelaine Kenner, LA 70062	Larry E. Mickal, P.E. 4908 Bissonet Dr. Metairie, LA 70003
Harvey J. Martin, P.E. 2915 Tournefort St. Chalmette, LA 70043	James S. McCormick Shell Oil Co. Norco, LA 70079	Joseph O. Meade, P.E. P.O. Box 61532 New Orleans, LA 70161	George E. Millard, Jr., P.E. 4811 Camelot Dr. New Orleans, LA 70127
Lisa J. Martin 7820 N. Coronet Ct. New Orleans, LA 70127	Leo P. McCurnin P.O. Box 73208 Metairie, LA 70003	Stephen J. Meade, P.E. 140 Rosewood Dr. Metairie, LA 70005	George A. Miller, P.E. 1327 Greenlawn St. Slidell, LA 70458
John L. Martinez, P.E. 12 Fontainebleau Dr. New Orleans, LA 70125	Steve C. McCutcheon 103 Chance Circle Slidell, LA 70458	Wayne L. Mediamolle, P.E. 23 West Levert Luling, LA 70070	Herbert I. Miller, P.E. 1908 Clearview Pkwy. Ste. 203 Metairie, LA 70001
Edito Masangeay P.O. Box 19384 New Orleans, LA 70179	Dale K. McDaniel 3488 Timothy Dr. Slidell, LA 70458	Thomas P. Meehan 408 Henry Clay Ave. New Orleans, LA 70118	Thomas T. Miller, Jr., P.E. P.O. Box 53267 New Orleans, LA 70153
Richard F. Mason, P.E. 3907 Peachtree Ct. New Orleans, LA 70114	Patrick H. McGehee P.O. Box 61000 New Orleans, LA 70161	Tommy Meehan 6308 Constance New Orleans, LA 70118	Percy R. Millet, Jr. 6802 Maple Lane New Orleans, LA 70127
W. A. Massimini, P.E. Rt. 3, Box 256 Pearl River, LA 70452	Charles McGowan 31 McAlister New Orleans, LA 70118	Robert J. Meers, P.E. 4524 Elmwood Pkwy. Metairie, LA 70003	Billy R. Mims 1250 Poydras Blvd. Room 1110 New Orleans, LA 70112
George E. May, P.E. 2031 Short St. New Orleans, LA 70118	Kelly J. McHugh, P.E. 176 Live Oak St. Mandeville, LA 70448	Alba Mejia 3536 Tulane Dr. Kenner, LA 70062	Jack F. Minor, P.E. 2357 Comet St. New Orleans, LA 70114
Paul S. Mayeaux, P.E. 372 Tudor Ave. River Ridge, LA 70123	Thomas Q. McIntyre 339 Metairie Lawn Metairie, LA 70001	James A. Melancon, P.E. 1200 St. Charles St. New Orleans, LA 70130	Claude C. Mixon 1309 Edenborn Ave. Metairie, LA 70001
		Jose G. Melendez 5985 Forest Isle Dr. Apt. 400 New Orleans, LA 70114	

Paul N. Mogabgab 7908 Nelson St. New Orleans, LA 70125	Dewitt L. Morris, P.E. 6647 Louisville St. New Orleans, LA 70124	Walter C. Murphy, III, P.E. P.O. Box 24130 New Orleans, LA 70124	Bruce J. Newton, P.E. 110 Royal Dr. Slidell, LA 70458
Parviz Mojgani, P.E. 3500 N. Causeway Suite 900 Metairie, LA 70002	Barbara G. Morrison 2173 Pebble Beach Dr. La Place, LA 70068	Margaret Murry P.O. Box 1202 New Orleans, LA 70118	Banh V. Nguyen, P.E. 7700 Butterfield Rd. New Orleans, LA 70126
Henri J. Molaison, P.E. 5531 Marshal Foch St. New Orleans, LA 70124	Herbert E. Morrison, P.E. P.O. Box 9339 Metairie, LA 70055	Gregory A. Myers 130 Wren St. New Orleans, LA 70124	Huyen T. Nguyen 5220 Kawanee Ave. Metairie, LA 70002
John J. Molisani, Jr. 2424 Palmer New Orleans, LA 70118	David C. Morrow 1052 Elmeer Ave. Metairie, LA 70005	Harold R. Myers, P.E. 4701 Chastant St. Metairie, LA 70002	Nga V. Nguyen, P.E. 3217 47th St. Metairie, LA 70001
Carlos A. Monje, P.E. 4820 Avron Blvd. Metairie, LA 70002	Brenton T. Morse, Jr., P.E. 6309 Cartier Dr. New Orleans, LA 70122	Jamshid Naini 48 Granada Dr. Kenner, LA 70062	Frank Nicoladis, P.E. 5924 Wheeler Dr. Metairie, LA 70003
John K. Monlezun, P.E. 2506 State St. New Orleans, LA 70118	Walter B. Moses, P.E. 600 Audubon Bldg. New Orleans, LA 70121	Clayton L. Nairne, P.E. 1500 Bordeaux St. New Orleans, LA 70115	James K. Nicloini 600 Carondelet St. New Orleans, LA 70130
Lisa M. Montelepre 3608 Richard Ave. Metairie, LA 70002	Warren G. Moses, P.E. 929 Howard Ave. New Orleans, LA 70113	Carole A. Naland 11350 Prentiss Ave. New Orleans, LA 70128	Jens J. Nielsen, P.E. 4176 Canal St. New Orleans, LA 70119
James N. Montgomery, P.E. 146 Holly Dr. La Place, LA 70068	Arthur A. Mott, P.E. P.O. Box 60340 New Orleans, LA 70160	Robert L. Nall P.O. Box 23417 New Orleans, LA 70183	Alan B. Nierenberg P.O. Box 50280 New Orleans, LA 70150
Joseph T. Montgomery, P.E. 7400 Windsor Dr. Harahan, LA 70123	Saad E. Moustafa, P.E. P.O. Box 1221 UNO New Orleans, LA 70122	Alfred C. Naomi, P.E. P.O. Box 60627 New Orleans, LA 70160	Howard E. Nobles, P.E. P.O. Box 7130 Metairie, LA 70010
Alan G. Moody, P.E. 1200 St. Charles Ave. New Orleans, LA 70130	John G. Moutes, P.E. 1001 Howard Ave. #4302 New Orleans, LA 70113	Louis J. Napolitano, Jr., P.E. 1336 Aris Ave. Metairie, LA 70005	Willie C. Nolan, P.E. 1000 S. Peters St. New Orleans, LA 70130
Joseph R. Mooney, P.E. 7780 Townsend Place New Orleans, LA 70126	Rodney A. Mouton, P.E. P.O. Box 60340 New Orleans, LA 70160	Arthur J. Naquin, P.E. 2515 Pine St. New Orleans, LA 70125	Russell J. Nunez, P.E. 3537 Tolmas Drive Metairie, LA 70002
J. Blake Moore 3925 Tall Pines New Orleans, LA 70114	Benito P. Moya, P.E. 1200 St. Charles Ave. New Orleans, LA 70130	Alan R. Neesley 2908 Haring Rd. Metairie, LA 70002	Particia A. Nussbaum 4708 Laudun Metairie, LA 70002
Norris J. Moore 8857 Gervais St. New Orleans, LA 70127	David Moynan, P.E. 1509 Gardenia Dr. Metairie, LA 70005	Charles W. Nelson, P.E. 1200 St. Charles Ave. New Orleans, LA 70130	Keith O'Cain 421 Polk St. New Orleans, LA 70131
John E. Morehiser, Jr., P.E. 148 Moss Lane New Orleans, LA 70123	Lu M. Mulino, P.E. 513 Park Ridge Dr. River Ridge, LA 70123	Kenneth H. Nelson 1200 St. Charles Ave. New Orleans, LA 70130	John C. O'Conner, Jr., P.E. 1729 Nat. Bank of Comm. Bldg. New Orleans, LA 70112
Mervin B. Morehiser, P.E. 1200 St. Charles Ave. New Orleans, LA 70130	R. F. Muller, Jr., P.E. 2905 Palmer Ave. New Orleans, LA 70118	Waldemar S. Nelson, P.E. 1200 St. Charles Ave. New Orleans, LA 70130	Ronald M. O'Conner 525 Valence St. New Orleans, LA 70115
Keith H. Morgan, P.E. 1616 Pine St. New Orleans, LA 70118	Richard F. Muller, Sr., P.E. P.O. Box 381 Covington, LA 70433	Susan E. Nesbit 3701 W. Napoleon Ave. Apt. 340 Metairie, LA 70001	James A. O'Neill, Jr., P.E. 4100 One Shell Square New Orleans, LA 70139
Kevin D. Moriarty P.O. Box 60124 New Orleans, LA 70160	Richard J. Muller, Jr. 1200 St. Charles Ave. New Orleans, LA 70130	Wolfgang Neuman, P.E. P.O. Box 1898 Kenner, LA 70063	Thomas J. O'Quin P.O. Box 51628 New Orleans, LA 70151
Anthony P. Morovich, P.E. 671 Rosa Ave. Metairie, LA 70005	Landry Murphy, P.E. 148 Elaine Ave. Harahan, LA 70123	Frank Newell 1200 St. Charles Ave. New Orleans, LA 70130	Agnes Ocasio 31 McAlister P.O. Box 1583 New Orleans, LA 70118
Edward R. Morphy, P.E. 336 N. Jefferson Davis Pkwy. New Orleans, LA 70119	Steve M. Murphy 5942 Warwick Ct. New Orleans, LA 70114	Clifton R. Newlin 2216 Octavia St. New Orleans, LA 70115	Femi O. Ogungbe 7209 Martin Dr. #208 New Orleans, LA 70126

James P. Ohlsen, P.E. 1612 Hall Ave. Metairie, LA 70003	Naresh D. Patel P.O. Box 9126 Metairie, LA 70055	Urban J. Pfefferle, P.E. 2712 Bell New Orleans, LA 70119	Prosper L. Potin, P.E. 5801 Sylvia Dr. New Orleans, LA 70124
Gerald D. Oliver, P.E. 9516 Greg Court River Ridge, LA 70123	Gerard M. Patelunas, P.E. P.O. Box 1899 Pittsburgh, PA 15230	Tang D. Phan, P.E. 1300 Perdido St. Rm. 6W02 New Orleans, LA 70112	Roy R. Powell 6434 Louisville St. New Orleans, LA 70124
Albert P. Olivier, P.E. 1200 St. Charles Ave. New Orleans, LA 70130	Edgar H. Pavia, P.E. 2609 Canal St. 5th Floor New Orleans, LA 70119	Robert W. Phillpott, P.E. 1007 Division St. Metairie, LA 70001	Kevin Power 7 Donelon Dr. Harahan, LA 70123
Michael J. Olivier 3924 W. Metairie Ave. Metairie, LA 70001	William J. Payer, P.E. 1121 Pine St. New Orleans, LA 70118	Rex E. Pierson, Jr., P.E. 2708 Aleatha St. Metairie, LA 70003	Timothy M. Power 7 Donelon Dr. Harahan, LA 70123
Edward W. Olsen, P.E. 219 Bienville Dr. Gretna, LA 70053	Rowland H. Peak, Jr., P.E. 201 Iona St. Metairie, LA 70005	Joseph M. Pilie, Jr., P.E. 3001 17th St. Metairie, LA 70003	Charles E. Prewitt, P.E. Commerce Bldg. Suite 800 New Orleans, LA 70112
Harold Olsen, P.E. 6339 Fleur De Lis New Orleans, LA 70124	James M. Pearson, P.E. P.O. Box 61961 New Orleans, LA 70161	Charleen J. Pinner 7940 Branch Dr. New Orleans, LA 70128	Lance J. Priez 317 Baronne New Orleans, LA 70112
Olaf H. Olsen, III, P.E. 1055 St. Charles Ave. New Orleans, LA 70130	Pual A. Peckham, P.E. 3500 Huntlee Dr. New Orleans, LA 70114	James Pittman 227 Jefferson Hgts. New Orleans, LA 70121	Vincent C. Provenza, P.E. 77 Bimini Ave. Kenner, LA 70062
Mark D. Oppenheim 1200 St. Charles Ave. New Orleans, LA 70130	N. L. Pellerin, P.E. P.O. Box 400 Kenner, LA 70063	John C. Pittman, P.E. 108 Magnolia Boulevard New Orleans, LA 70123	E. A. Pruitt 10950 Jefferson Hwy. Apt. B-11 River Ridge, LA 70123
Antoine I. Ory 1600 S. Peters St. New Orleans, LA 70130	Rawley M. Penick, III, P.E. 7004 Magnolia Ct. Metairie, LA 70003	Morris C. Place, Jr., P.E. P.O. Box 61555 New Orleans, LA 70160	Thomas O. Prunty, P.E. P.O. Box 60340 New Orleans, LA 70160
Francis J. Ory, P.E. 552 Smith Dr. Metairie, LA 70005	Jerome Pepper, P.E. 3012 26th St. Metairie, LA 70002	Robert J. Planchet, P.E. 5827 Chamberlain Dr. New Orleans, LA 70122	Gary W. Pullins 2212 Oakmere Harvey, LA 70058
Stephen J. Ory P.O. Box 60035 New Orleans, LA 70160	Walter B. Perdue 8 Fairlane Dr. Metairie, LA 70003	Harry W. Platter, P.E. 371 Fairfield Ave. Gretna, LA 70053	Stephen M. Pumilia, P.E. 1200 St. Charles Ave. New Orleans, LA 70130
William P. Oster, P.E. 3436 Gentilly Blvd. New Orleans, LA 70122	Fidel I. Perez, P.E. 5008 Hearst St. Metairie, LA 70001	Walter F. Plauche, P.E. 5929 Gen. Diaz St. New Orleans, LA 70124	Ward C. Purdum, P.E. P.O. Box 9426 Metairie, LA 70005
Kenneth M. Oustalet 1812 Madison St. Metairie, LA 70001	Claiborne Perrilliat, P.E. Box 13128 New Orleans, LA 70125	Heidi Pohl 64 Newcomb Pl. New Orleans, LA 70118	P. R. Quirk, P.E. 1201 Beverly Garden Dr. Metairie, LA 70002
David R. Owen 2176 Laurel Ave. Gretna, LA 70053	Felicien Perrin, P.E. 3501 Ridgelake Dr. Metairie, LA 70002	Joseph Pominski, P.E. 3305 Metairie Heights Metairie, LA 70002	Robert Quitzau 6109 Flower Dr. Metairie, LA 70003
Henry F. Owsley, Jr. 821 Gravier St. Suite 1107 New Orleans, LA 70112	Larry A. Perrin, P.E. P.O. Box 692 Slidell, LA 70459	Timothy Ponceti 4008 Taft Park Metairie, LA 70002	Bryant Ragan 819 Cleary Ave. Metairie, LA 70001
Ching-Shan Pan, P.E. P.O. Box 23134 Harahan, LA 70183	Roy A. Perrin, Jr., P.E. 1200 Beverly Garden Dr. Metairie, LA 70002	Russell J. Ponder, P.E. 2508 Vulcan St. Harvey, LA 70058	Leonard C. Ramon, Jr., P.E. 7101 Cove Dr. New Orleans, LA 70126
David L. Parenton, P.E. 32 Orpheum Ave. Metairie, LA 70005	Wayne R. Peterson, P.E. P.O. Box 15179 New Orleans, LA 70175	Wylmer C. Pool, P.E. 1653 Dufossat New Orleans, LA 70115	Col. Dale K. Randels, P.E. USA Ret. 703 Henry Clay New Orleans, LA 70118
Harold F. Parker 317 Baronne St. New Orleans, LA 70112	Henry W. Pfeffer, Jr. 5022 Chestnut New Orleans, LA 70115	Dieter E. Popoff, P.E. 2809 Elizabeth St. Metairie, LA 70003	Donald T. Ranna, P.E. P.O. Box 8287 Metairie, LA 70011
Joseph E. Parker 359 N. Pierce St. Covington, LA 70433	John L. Pfeffer, P.E. 833 Howard Ave. New Orleans, LA 70113	John P. Porter, P.E. 7410 Sussex Place New Orleans, LA 70126	Prat P. Reddy, P.E. 648 Helois St. Metairie, LA 70005

Anthony P. Redovnikovich, P.E. 805 Oaklawn Dr. Metairie, LA 70005	Barry E. Ripple, P.E. 6304 Gladys St. Metairie, LA 70003	Louis J. Rosenbohm, Jr., P.E. 428 Audubon Bldg. New Orleans, LA 70116	Nathan G. Sanborn 1200 St. Charles Ave. New Orleans, LA 70130
C.E. Reed, P.E. P.O. Box 19466 New Orleans, LA 70119	Scott Ritchey 6215 Curie New Orleans, LA 70122	C. J. Roth 2701 Metairie Hgts. Metairie, LA 70002	Herbert C. Sanders, P.E. 27 Mistletoe Dr. Covington, LA 70433
Pierre C. Reeh, P.E. P.O. Box 60046 New Orleans, LA 70160	Fernado Rivera 827 Chapelle St. New Orleans, LA 70124	Mansfield A. Roth P.O. Box 8708 Metairie, LA 70011	David B. Scalfano, P.E. Rt. 7 Box 160 Covington, LA 70433
Joseph A. Reine, Jr., P.E. 4625 Clearview Pkwy. Metairie, LA 70002	John W. Roach, Jr., P.E. P.O. Box 8708 Metairie, LA 70011	Robert P. Roth, Jr., P.E. 3201 Roosevelt Ave. Kenner, LA 70062	Dale S. Schaeffer 5112 Fairfield St. Metairie, LA 70002
James V. Reuter, III, P.E. 6929 Gen. Diaz New Orleans, LA 70124	George P. Robbins 1109 Dealers Ave. Harahan, LA 70183	Robert E. Rouquette 940 Moss St. New Orleans, LA 70119	Herbert A. Schaeffer, III, P.E. 5112 Fairfield Metairie, LA 70002
Richard B. Reynaud, P.E. 5924 Prytania St. New Orleans, LA 70115	Douglas B. Robert, P.E. 2616 N. Bengal Rd. Metairie, LA 70003	Larry J. Rousseau, P.E. 4300 Fiesta Dr. New Orleans, LA 70114	Jack Scheinuk 4613 St. Charles Ave. New Orleans, LA 70115
Calvin J. Rhines, P.E. P.O. Box 61520 New Orleans, LA 70161	Ronald E. Roberts, P.E. 317 Baronne St. New Orleans, LA 70112	Herbert J. Roussel, Jr., P.E. P.O. Box 1329 Kenner, LA 70063	Gerry Scheirman 4325 Loyola New Orleans, LA 70118
Donald L. Ricca 211 Beauregard Lane North Destrehan, LA 70047	Rustin Roberts 1437 Olean Dr. Metairie, LA 70005	Perry J. Roussel, Jr. 6440 S. Claiborne Apt. 501 New Orleans, LA 70125	Donald B. Schell, P.E. P.O. Box 8287 Metairie, LA 70011
Charles B. Richard, P.E. P.O. Box 7700 Metairie, LA 70010	Russell J. Robicheaux, P.E. 6220 Annunciation St. New Orleans, LA 70118	Martin A. Rowland 5628 Painters St. New Orleans, LA 70122	Walter R. Schellhase Rt. 2 Box 400-F Slidell, LA 70458
Donner A. Richard 7900 Peeble Dr. New Orleans, LA 70128	Franklin P. Robinson, P.E. 2639 Valentine Court New Orleans, LA 70114	James F. Roy, P.E. 543 Robert E. Lee Blvd. New Orleans, LA 70124	John A. Schindler P.O. Box 703 Metairie, LA 70001
Larry J. Richard 4004 Richland Metairie, LA 70002	A. R. Rodriguez, P.E. 4844 Wright Rd. New Orleans, LA 70128	C. W. Ruckstuhl, Jr., P.E. 5813 Boutall St. Metairie, LA 70003	John H. Schluter, P.E. 352 22nd St. New Orleans, LA 70124
Edward K. Richardson, P.E. 3805 Cleary Ave. Metairie, LA 70002	Terry L. Rodriguez, P.E. 4236 Illinois Ave. Kenner, LA 70062	John H. Rusch, Jr. 405 Marguerite Road Metairie, LA 70003	Stephen M. Schmaltz P.O. Box 61520 New Orleans, LA 70161
W. P. Richardson, P.E. 229 Brockenbraugh Ct. Metairie, LA 70005	James M. Roemer P.O. Box 38 St. Bernard, LA 70085	William Rushing, Jr. 1200 St. Charles Ave. New Orleans, LA 70130	Norbert E. Schmidt, P.E. 1639 Robert St. New Orleans, LA 70115
Michael L. Richarme 5517 Chatham Dr. New Orleans, LA 70122	R. Bradford Rogers 1200 St. Charles Ave. New Orleans, LA 70130	William H. Russ 9600 Robin Lane River Ridge, LA 70123	Paul A. Schmit, P.E. 5500 Chef Menteur Hwy. New Orleans, LA 70126
Glenn J. Richoux 1200 St. Charles Ave. New Orleans, LA 70130	Ronald J. Romeo, P.E. 81 Monterrey Kenner, LA 70062	Richard F. Russell, P.E. P.O. Box 61520 New Orleans, LA 70161	Thomas W. Schnatz, P.E. 4728 Burke Dr. Metairie, LA 70003
Lindsey G. Riddle, P.E. 5646 Bellaire Dr. New Orleans, LA 70124	David A. Romero UNO P.O. Box 980, Apt. E-301 New Orleans, LA 70122	Edwin P. Russo, P.E. UNO School of Eng. New Orleans, LA 70122	Edward L. Schneider, P.E. 2259 Leon C. Simon Blvd. New Orleans, LA 70122
Paul T. Rieder, III, P.E. 1512 High St. Metairie, LA 70001	Raymond M. Ronquillo, P.E. 2600 Vulcan St. Harvey, LA 70058	Joseph J. Sabrier, III 944 Elmeer Ave. Metairie, LA 70005	Chris Schoennagel 132 S. Alexander New Orleans, LA 70119
James L. Rike, P.E. P.O. Box 13786 New Orleans, LA 70185	Francis E. Rose, P.E. 5721 Chopin Ct. Metairie, LA 70003	Joseph J. Sabrier, Jr., P.E. 1500 Lakeshore Dr. Metairie, LA 70005	Ralph E. Scholtz 3801 Octavia St. New Orleans, LA 70118
Joseph S. Riorda P.O. Box 19407 New Orleans, LA 70179	William L. Rose, Jr., P.E. Box 514 Rt. 6 Sharp Road Mandeville, LA 70448	Richard P. Saizan, P.E. 6439 Chestershire New Orleans, LA 70126	Theodore H. Schooley, P.E. 800 Freedom Lane Slidell, LA 70458

Henry R. Schorr, P.E.
5934 Patton St.
New Orleans, LA 70115

Kevin Schott
459 Jewell St.
New Orleans, LA 70124

Gerald L. Schroeder, Jr., P.E.
621 Chablis Dr.
Kenner, LA 70062

Edward J. Schubert, P.E.
P.O. Box 60035
New Orleans, LA 70160

Ronald L. Schumann, Jr., P.E.
3715 Williams Blvd. Ste. 150
Kenner, LA 70062

Walter J. Schwarz, P.E.
1421 Hillary St.
New Orleans, LA 70118

Frank J. Scianna
1001 White Bay Ct.
Bogalusa, LA 70427

R. M. Seago, P.E.
3411 Octavia St.
New Orleans, LA 70125

Deborah A. Seemann
251 Phosphor Ave.
Metairie, LA 70005

Solis Seiferth
1838 Jefferson Ave.
New Orleans, LA 70115

Sidney L. Seiler, P.E.
4671 Perelli Dr.
New Orleans, LA 70127

Michael S. Seither
#9 Ellen Court
Jefferson, LA 70121

Andre Serignan
2009 Mehle Ave.
Arabi, LA 70032

Roy T. Sessums, P.E.
125 Magnolia Dr.
Metairie, LA 70005

Y. Jo Seto, P.E.
Tulane Univ. Dept. of Elec. Eng.
New Orleans, LA 70118

Jerry T. Sewell
4700 One Shell Square
New Orleans, LA 70139

Lester B. Shackford, Jr.
821 Barrack Apt. 1
New Orleans, LA 70116

Jitendra C. Shah
4747 Earhart Blvd.
New Orleans, LA 70125

Larry Shamburger
P.O. Box 936 UNO
New Orleans, LA 70118

Kearney B. Shaw, P.E.
3241 Iowa Ave.
Kenner, LA 70062

Richard M. Shaw, P.E.
393 Audubon St.
New Orleans, LA 70118

Edward L. Shearer, P.E.
P.O. Box 38
St. Bernard, LA 70085

Cecil M. Shilstone, P.E.
2201-E Calhoun St.
New Orleans, LA 70112

Naum I. Schanider
1111 Lake Ave. #18
Metairie, LA 70005

Joseph M. Shoemaker, Jr., P.E.
147 Rue Esplanade
Slidell, LA 70458

Jeffrey J. Siewert, P.E.
1200 St. Charles Ave.
New Orleans, LA 70130

Keith Simmons
10131 Hillwood St.
New Orleans, LA 70127

Roger L. Simmons
3622 Shangrila
Chalmette, LA 70043

Jules E. Simoneaux, P.E.
P.O. Box 1127
Metairie, LA 70004

Alfred M. Simons
2727 Gen. Pershing
New Orleans, LA 70115

Seth B. Simpson, Jr., P.E.
429 Arlington Dr.
Metairie, LA 70001

R. Morris Sims
2536 W. Catawba Dr.
Harvey, LA 70058

Bernard J. Sincavage, P.E.
3104 Nature Dr.
Marrero, LA 70072

R. M. Singleton, Jr., P.E.
1701 N. Bengal Rd.
Metairie, LA 70003

Joseph C. Skinner, Jr., P.E.
4136 Walmsley Ave.
New Orleans, LA 70125

Foch Smart
2544 Robert E. Lee Blvd. #112
New Orleans, LA 70122

Francis A. Smith, Jr., P.E.
2749 Jupiter St.
Harvey, LA 70058

Frank G. Smith, P.E.
P.O. Box 61000
New Orleans, LA 70161

Gregory C. Smith
800 Commerce Rd. West
New Orleans, LA 70123

J. Jerry Smith, P.E.
1308 Dealers Ave.
Harahan, LA 70123

Norma J. Smith
4604 Woodland St.
Metairie, LA 70002

Peter M. Smith
1200 St. Charles Ave.
New Orleans, LA 70130

Robert R. Smith, P.E.
218 Country Club Blvd.
Slidell, LA 70458

Spencer G. Smith, P.E.
31 Chatam Dr.
New Orleans, LA 70122

Steven L. Smith, P.E.
818 Howard Ave. Suite 201
New Orleans, LA 70113

Clifton A. Snow, Jr.
1200 St. Charles Ave.
New Orleans, LA 70130

Harold J. Snyder, P.E.
833 Jewel St.
New Orleans, LA 70124

Cecil W. Soileau, P.E.
10012 Walden Dr.
River Ridge, LA 70123

David J. Songe, Jr., P.E.
305 Sable Dr.
Arabi, LA 70032

Hsiang K. Soong, P.E.
11221 Woodvine Lane
New Orleans, LA 70128

Luis R. Sosa, P.E.
845 Marlene Dr.
Gretna, LA 70053

David W. Spako
416 Park Ridge Dr.
New Orleans, LA 70123

Davis E. Speeg
2013 Airline Blvd.
Metairie, LA 70003

Raymond D. Speeg, P.E.
2013 Airline Park Blvd.
Metairie, LA 70003

Warrington B. Speer, P.E.
4410 James Dr.
Metairie, LA 70003

Wesley J. Sperier, P.E.
131 LaVergne St.
New Orleans, LA 70114

John J. Spokes, Jr.
1020 Labarre St.
Mandeville, LA 70448

Donald L. Sprow, P.E.
P.O. Box 60035
New Orleans, LA 70160

Percy P. St. Amant, Jr. P.E.
3932 St. Charles Ave.
New Orleans, LA 70115

William W. St. Cyr, II, P.E.
1559 Pennsylvania Ave.
Slidell, LA 70458

J. L. St. John, P.E.
6940 Orleans Ave.
New Orleans, LA 70124

John P. St. Raymond, P.E.
2817 Jefferson Ave.
New Orleans, LA 70115

Abraham L. Stabinsky, P.E.
4600 Gawain Dr.
New Orleans, LA 70127

Babette B. Staunton
2117 Airline Pk. Blvd.
Metairie, LA 70003

Maitland A. Steele, P.E.
P.O. Box 61520
New Orleans, LA 70161

Denise M. Steil
632 A N. Alexandria
New Orleans, LA 70119

Stephen E. Steimle, P.E.
P.O. Box 865
Metairie, LA 70004

Maynard M. Stephens, P.E.
Tulane Univ. Dept. of
Mech. Eng.
New Orleans, LA 70118

Mack Y. Stevens
P.O. Box 249
Gretna, LA 70053

Bingham C. Stewart
P.O. Box 53266
New Orleans, LA 70153

James E. Stewart, P.E.
205 Tchefuncte Dr.
Covington, LA 70433

Wade H. Stewart
142 Delaronde St.
New Orleans, LA 70174

Harry W. Stinchomb, P.E.
6010 Coliseum St.
New Orleans, LA 70118

Gilbert G. Stock
1208 Hesper Ave.
Metairie, LA 70002

Robert P. Stoddard, P.E.
3237 Tennessee Ave.
Kenner, LA 70062

Thomas A. Stokes, P.E.
4901 S. Prieur
New Orleans, LA 70125

John C. Stone, III, P.E. P.O. Box 61961 New Orleans, LA 70161	James E. Taylor, Jr. 2129 Pasadena Apt. A. Metairie, LA 70001	John W. Tonglet 4620 Lefkoe St. Metairie, LA 70002	Richard J. Valadie Rt. 2, Box 1102 W. 10th Reserve, LA 70084
Robert S. Stoops, P.E. 219 Sauve Rd. New Orleans, LA 70123	James M. Taylor 6921 Yorktown Dr. New Orleans, LA 70127	Orlando S. Torres 2502 Caswell Lane Metairie, LA 70001	Fred H. Vanderbrook, Jr., P.E. 1621 S. Jefferson Davis Pkwy. New Orleans, LA 70125
Waldemar D. Stopkey, P.E. 1405 Moss Lane River Ridge, LA 70123	Willie T. Taylor, Jr., P.E. 10133 S. Kelly Lane Wagaman, LA 70094	Lewis S. Touna, P.E. P.O. Box 52301 New Orleans, LA 70152	Hugo B. VanDeGraaf 4845 Avron Blvd. Metairie, LA 70002
Pierre J. Stouse, Jr., P.E. P.O. Box 7766 Metairie, LA 70010	George N. Tennison, P.E. 4109 James Metairie, LA 70003	Freddie J. Touro, P.E. P.O. Box 26 Belle Chasse, LA 70037	Richard A. VanWootten, P.E. 111 Wren St. New Orleans, LA 70124
Dewey E. Straley 488 Fairfield Ave. Gretna, LA 70053	Donald E. Teske, P.E. 1309 Patroit Slidell, LA 70458	Donald E. Tousley, P.E. 419 Betz Place Metairie, LA 70005	Robert W. Vaughan 527 Magnolia St. New Orleans, LA 70112
Harold H. Stream, Jr., P.E. 1315 Royal St. New Orleans, LA 70116	Louis N. Theriot, P.E. 923 Athania Pkwy. Metairie, LA 70002	Louis Trahan 1404 Elsie Ave. Metairie, LA 70003	Charles J. Venezia, P.E. 1417 Montana Ave. Kenner, LA 70062
Frank B. Stritzinger 701 Calvert St. Metairie, LA 70001	Timothy Theriot 1200 St. Charles Ave. New Orleans, LA 70130	David Traylor 1340 Poydras Suite 2110 New Orleans, LA 70112	Kevin Venturella 90 Spanish Fort Blvd. New Orleans, LA 70124
Frank M. Stuart, P.E. 1125 N. Gayoso St. New Orleans, LA 70119	Burnell J. Thibodeaux, P.E. 2546 Elder St. New Orleans, LA 70122	Everett V. Treigle, Jr. Am. Bank Bldg. Rm. 612 New Orleans, LA 70130	Walter J. Verlander, P.E. 5534 Canal Blvd. New Orleans, LA 70124
Sam L. Sullivan Jr., P.E. Tulane Univ. New Orleans, LA 70118	Clement P. Thomas, P.E. 1001 Howard Ave. Suite 4002 New Orleans, LA 70113	David Trexler 21F Rue Chardonay Kenner, LA 70062	Frank Vicidomina 5109 Alexander Dr. Metairie, LA 70003
Blair Sundquist, P.E. P.O. Box 1898 Kenner, LA 70063	Abijah W. Thompson, P.E. 1820 St. Charles Ave. New Orleans, LA 70130	James G. Tribo, P.E. 800 Commerce Rd. East New Orleans, LA 70123	Vincent Vicidomina, P.E. P.O. Box 100 Meraux, LA 70075
Fran L. Sunseri 1107 Carrollton Ave. Metairie, LA 70005	Horace A. Thompson, Jr., P.E. P.O. Box 4189 New Orleans, LA 70118	Andrew G. Troyer, III P.O. Box 61520 New Orleans, LA 70161	H. R. Vick, P.E. 825 Andrews Ave. Metairie, LA 70005
Charles D. Sustendal 2721 Burdette St. New Orleans, LA 70125	Hugh A. Thompson, P.E. Tulane Univ. New Orleans, LA 70118	Regis G. Trumps, P.E. P.O. Box 61000 New Orleans, LA 70161	Carl N. Vickburg, P.E. 2261 Beck St. New Orleans, LA 70114
Robert J. Swayne, Jr., P.E. 1809 Elise Ave. Metairie, LA 70003	George M. Thrailkill 39-D Mary Ann Dr. Meraux, LA 70075	John E. Trygg, P.E. Rt. #1 Box 542 Madisonville, LA 70447	David Viener 400 Fairway Dr. New Orleans, LA 70124
Timothy E. Sylvester, P.E. 4813 Argonne St. Metairie, LA 70001	Thomas R. Thurmond P.O. Box 6261 New Orleans, LA 70174	Mark W. Tsai, P.E. 924 Ellen St. Gretna, LA 70053	Leonard A. Villalon, P.E. 1200 St. Charles Ave. New Orleans, LA 70130
Cynthia D. Taff 4645 Berkley Dr. New Orleans, LA 70114	Jack Tillay 51 A Brandon Hall Destrehan, LA 70047	Patrick F. Tschirn 121 Upsilon St. Belle Chasse, LA 70037	David D. Villarrubia Rt. 3 Box 343 Bogalusa, LA 70427
Tahereh S. Talai 1915 Metairie Ave. Apt. B Metairie, LA 70005	Charles D. Tobelman, III 4608 Jasper St. Metairie, LA 70002	William O. Turner 101 West Chester Place New Orleans, LA 70114	Edward D. Villere, P.E. P.O. Box 13547 New Orleans, LA 70185
Peter N. Talluto, P.E. 1200 St. Charles Ave. New Orleans, LA 70130	J. P. Tobin, P.E. 356 Pine St. New Orleans, LA 70118	Frank E. Tutzauer, Jr., P.E. 7533 Ligustrum Dr. New Orleans, LA 70126	Gary R. Vincent, P.E. 1303 Burgundy St. #5 New Orleans, LA 70116
Keith Tassin 426 Barreca St. Norco, LA 70079	Patrick A. Tobler 2100 Center St. Arabi, LA 70032	Roger S. Utter, P.E. P.O. Box "B" Killona, LA 70066	Lucien E. Vivien, P.E. 1411 Pressburg New Orleans, LA 70122
Russell E. Tausch, P.E. 53 Elaine Ave. Harahan, LA 70123	Lee F. Tocho 6735 Memphis St. New Orleans, LA 70124	Robert L. Vaccaro, P.E. 118 Stella St. Metairie, LA 70005	Daniel H. Vliet, P.E. 1036 Jefferson Ave. New Orleans, LA 70130

- Christian M. Voelkel, P.E.**
1031 Annunciation St.
New Orleans, LA 70153
- John F. Vogt, Jr., P.E.**
1325 Kildeer St.
New Orleans, LA 70121
- Douglas K. Vrooman, P.E.**
23 Downing Dr.
Covington, LA 70433
- Rick Wadsworth**
8008 Devine
New Orleans, LA 70127
- Eric D. Waguespack, P.E.**
43 Beauregard Dr.
Gretna, LA 70053
- Otis J. Waguespack, P.E.**
P.O. Box 7931
Metairie, LA 70010
- Gustav Waidhas, P.E.**
1107 Lair Ave.
Metairie, LA 70003
- Sukhdeb S. Walia, P.E.**
P.O. Box 60340
New Orleans, LA 70160
- Frank H. Walk, P.E.**
1543 Henry Clay Ave.
New Orleans, LA 70118
- John E. Walker, P.E.**
920 Carondelet Bldg.
New Orleans, LA 70130
- Earl E. Wall, P.E.**
305 Baronne St. #707
New Orleans, LA 70112
- Mark A. Wall**
828 Sunset Blvd. Apt. #12
Kenner, LA 70063
- Theodore F. Wallander**
4910 Moore Dr.
New Orleans, LA 70122
- Stephen J. Wallbillich, P.E.**
4014 Vincennes Place
New Orleans, LA 70125
- J. G. Wallis**
936 Jefferson Ave.
New Orleans, LA 70115
- Benjamin F. Walsh, P.E.**
603 FNBC Bldg.
New Orleans, LA 70112
- Milton M. Walther, P.E.**
527 Magnolia St.
New Orleans, LA 70112
- Theobald H. Wan**
4525 Belle Dr.
Metairie, LA 70002
- Chang Wang, P.E.**
P.O. Box 60252
New Orleans, LA 70160
- Chang-Ann Wang**
7854 Scottwood Dr.
New Orleans, LA 70128
- Harry W. Warner, P.E.**
P.O. Box 1192
Slidell, LA 70459
- Francis J. Warren, Jr., P.E.**
P.O. Box 50098
New Orleans, LA 70150
- James E. Warren, P.E.**
1608 Division St.
Metairie, LA 70001
- James S. Warren, P.E.**
1732 Canal St. Apt. 973
New Orleans, LA 70112
- John W. Waters, P.E.**
P.O. Drawer 1279
Harvey, LA 70059
- Brenda Watts**
10950 Jefferson Hwy. #L-16
River Ridge, LA 70123
- Edward P. Watts, Jr.**
2427 St. Charles Ave.
New Orleans, LA 70130
- Charles H. Weatherly, P.E.**
5439 Sutton Place
New Orleans, LA 70114
- David C. Weatherly**
1200 St. Charles Ave.
New Orleans, LA 70130
- George W. Webb, P.E.**
7021 Willow St.
New Orleans, LA 70118
- Jay Webb, P.E.**
10121 Idlewood Pl.
River Ridge, LA 70123
- B. A. Wedemeyer, P.E.**
5004 Purdue
Metairie, LA 70003
- Roland S. Weekley**
150 David Dr.
Hammond, LA 70401
- David E. Weidner**
1122 Fern St.
New Orleans, LA 70118
- William C. Weiland, P.E.**
P.O. Box 428
Hahnville, LA 70057
- Allan M. Weinstein, P.E.**
1230 Tulane Ave.
New Orleans, LA 70112
- Thomas W. Wells, P.E.**
1200 St. Charles Ave.
New Orleans, LA 70130
- E. J. Welsch, P.E.**
639 So. Scott St. Suite 203
New Orleans, LA 70119
- Joseph C. Wendling, Jr., P.E.**
43 Donelon Dr.
Harahan, LA 70123
- James C. Wernicke**
4117 Iowa Ave.
Kenner, LA 70062
- C. A. Wethern, Jr., P.E.**
5924 Rickey St.
Metairie, LA 70003
- Tim Whalen**
850 S. Clearview Pkwy.
New Orleans, LA 70123
- Clayton J. White**
1200 St. Charles Ave.
New Orleans, LA 70130
- Kohen E. White, P.E.**
5141 Carlisle
New Orleans, LA 70114
- William H. White, P.E.**
202 Brunswick Court
New Orleans, LA 70114
- Kathy D. Whitson**
2350 Park Pl. #157
Gretna, LA 70053
- Gerald F. Wicks**
10001 Lake Forest Blvd. #315
New Orleans, LA 70127
- Edward I. Wiewiorowski, P.E.**
P.O. Box 1336
Braithwaite, LA 70040
- Joseph F. Wilbert, P.E.**
5628 Gen. Diaz St.
New Orleans, LA 70124
- Samuel D. Wilder, P.E.**
327 Fairfield Ave.
Gretna, LA 70053
- James Wilkins, Jr.**
14 Chateau Ponlet
Kenner, LA 70062
- Mike B. Willem**
4640 Hastings Ave.
Metairie, LA 70002
- Douglass J. Williams, P.E.**
P.O. Box 60035
New Orleans, LA 70160
- Edward L. Williams, P.E.**
4500 Chastant St.
Metairie, LA 70002
- Joshua F. Williams**
P.O. Box 8001
New Orleans, LA 70182
- Nancy S. Williams**
6347 Bellaire Dr.
New Orleans, LA 70124
- R. L. Williams, P.E.**
P.O. Box 61520
New Orleans, LA 70161
- Raleigh J. Williams, P.E.**
City Hall Rm. 6W02-G
New Orleans, LA 70112
- Robert M. Williams, P.E.**
7037 Canal Blvd.
New Orleans, LA 70124
- W. H. Williams**
437 Iona St.
Metairie, LA 70005
- Edward P. Williamson, P.E.**
246 Orchard Rd.
River Ridge, LA 70123
- Michael J. Williamson, P.E.**
1517 Clearview Pkwy. Apt. C
Metairie, LA 70001
- Norman W. Wilson**
5009 Radcliff St.
Marrero, LA 70072
- William O. Wilson**
9 Williams Ave.
New Orleans, LA 70121
- Joseph C. Wink, Jr. P.E.**
8020 Mayo Rd.
New Orleans, LA 70126
- Kong Wong, P.E.**
2021 Milam St.
New Orleans, LA 70115
- Christopher M. Woods**
2560 W. Catawba Dr.
Harvey, LA 60058
- Wilfred Woods**
1015 Josephine St.
New Orleans, LA 70130
- Dalton L. Woolverton, P.E.**
2464 Kildeer St.
New Orleans, LA 70122
- John P. Wust, Jr., P.E.**
23 Forstall Ave.
Kenner, LA 70062
- Arthur G. Yaeger, Jr.**
527 Magnolia St.
New Orleans, LA 70112
- Majid Yamin**
205 W. Maple Ridge
Metairie, LA 70001
- Ernest J. Yancey, Jr., P.E.**
206 Marina Blvd.
Mandeville, LA 70448
- Thomas C. Yang**
P.O. Box 6496
Metairie, LA 70009
- Akira Yato**
1783 Coliseum Apt. #13
New Orleans, LA 70130
- Paul T. Yesso, P.E.**
2428 Somerset Dr.
New Orleans, LA 70114

Laurie J. Zabelny
P.O. Box 364
New Orleans, LA 70118

Anton N. Zanki
1132 City Park Ave.
New Orleans, LA 70119

Arthur M. Zatarain, P.E.
269 Hollywood Dr.
Metairie, LA 70005

Mark R. Zeringer, P.E.
P.O. Drawer 38
Harvey, LA 70058

Herman J. Zeringue, P.E.
2542 Valentine Ct.
New Orleans, LA 70114

Luis M. Zervigon, P.E.
8200 Hampson St.
New Orleans, LA 70118

Mario G. Zervigon, P.E.
728 Newman Ave.
Jefferson, LA 70121

Arno G. Ziesenis
3116 Haring Road
Metairie, LA 70002

Robt. W. Ziifle, P.E.
715 Pelican Ave.
New Orleans, LA 70114

T. H. Zumwalt, P.E.
161 Beverly Dr.
Metairie, LA 70001

Robert A. Basinger, P.E.
9435 Mansfield Rd., Suite 8
Shreveport, LA 71108

Ronnie T. Beall, P.E.
P.O. Box 6615
Shreveport, LA 71106

Hamilton R. Benson, Jr., P.E.
139 Kayla
Shreveport, LA 71105

Henry A. Bernat, P.E.
9711 Windbrook Dr.
Shreveport, LA 71118

David L. Billingsley, P.E.
2000 Fairfield Ave.
Shreveport, LA 71104

William H. Borland, Jr., P.E.
430 Brighton Ct.
Shreveport, LA 71115

Ronald L. Boutte, P.E.
510 Rock Hollow Dr.
Shreveport, LA 71115

John R. Bowman, P.E.
504 Texas St.
Shreveport, LA 71101

James H. Bradley, P.E.
6105 Kathy Lane
Shreveport, LA 71105

Chadwick P. Breaux, P.E.
324 Ockley Dr.
Shreveport, LA 71105

Marlynn G. Brodnax, P.E.
350 Jordan St.
Shreveport, LA 71101

Leon E. Brooks, P.E.
P.O. Box 5429
Shreveport, LA 71105

Warren D. Broussard, P.E.
2059 Shadywood Lane
Shreveport, LA 71105

E. E. Brown, P.E.
815 Lincoln Dr.
Shreveport, LA 71107

Ralph H. Brown
616 Dumbarton
Shreveport, LA 71106

Wayne Brown, P.E.
8610 Glenhaven
Shreveport, LA 71106

Phil A. Browning, P.E.
Rt. 2, Box 237
Logansport, LA 71049

Charles A. Burfoot, P.E.
222 Keller
Homer, LA 71040

Ray E. Burgess, P.E.
600 E. Flournoy-Lucas Rd. #G-5
Shreveport, LA 71115

John E. Cagle, P.E.
1055 Louisiana
Shreveport, LA 71101

Harry L. Cannon, P.E.
175 Chelsea Dr.
Shreveport, LA 71105

J. T. Carmichael, P.E.
830 Captain Shreve
Shreveport, LA 71105

Donald C. Carter
P.O. Box 6030
Shreveport, LA 71106

Leland H. Carter, P.E.
1055 La Ave.
Shreveport, LA 71101

Harmon L. Chappell
P.O. Box 7911
Shreveport, LA 71107

Harvey D. Christian, P.E.
Rt. 6, Box 647
Shreveport, LA 71119

Charles C. Colvin, P.E.
515 Rock Hollow
Shreveport, LA 71115

John L. Copeland
Rt. 2, Box 27-C
Keithville, LA 71047

Stanley M. Cothren, P.E.
6305 Westport Ave.
Shreveport, LA 71129

Charles Coyle, P.E.
Route 3
Plain Dealing, LA 71064

Sammie L. Craft, P.E.
1806 Benton Road
Bossier City, LA 71111

Johnnie A. Craig
6025 Buncomb Rd.
Shreveport, LA 71129

William F. Cummer, P.E.
552 Wilkinson
Shreveport, LA 71104

Todd D. Davis, P.E.
628 Dudley Dr.
Shreveport, LA 71104

William E. Davis, P.E.
2041 Pepper Ridge
Shreveport, LA 71105

Chris Demopoulos, P.E.
600 Petroleum Tower
Shreveport, LA 71101

Paul C. Demopoulos
600 Petroleum Tower
Shreveport, LA 71101

Prafil R. Desai, P.E.
2515 Brownlee Rd.
Bossier City, LA 71111

SHREVEPORT—CHAPTER 8

President—Tom Nesbitt, P.E.	Office Phone 318-226-9199 Home Phone 318-869-2646
1st Vice President—Homer Purtle, P.E.	Office Phone 318-226-9199 Home Phone 318-377-8434
2nd Vice President—Andy Craig	Office Phone 318-686-7190 Home Phone 318-687-3729
Secretary—Ken Winterrowd	Office Phone 318-746-3800 Ext. 240
Treasurer—John Hawkins, P.E.	Home Phone 318-221-6192 Office Phone 318-222-0107 Home Phone 318-868-5731

Aaron F. Adams, P.E.
642 Ashbourne Dr.
Shreveport, LA 71106

Charles A. Adcox, P.E.
10005 Hanover Dr.
Shreveport, LA 71115

J. Carroll Adkins, P.E.
P.O. Box 21734
Shreveport, LA 71151

Richard R. Aillet, P.E.
1055 Louisiana Ave.
Shreveport, LA 71101

Robert R. Aillet, P.E.
1055 Louisiana Ave.
Shreveport, LA 71101

Mahmoud M. Aljamel
2045 Flournoy Lucas Apt. #257
Shreveport, LA 71118

Alton E. Allen, P.E.
P.O. Box 248
Oil City, LA 71061

Winfield W. Alsup, P.E.
650 Pierremont
Shreveport, LA 71106

Carroll W. Andrews, P.E.
P.O. Box 1106
Shreveport, LA 71163

Howard G. Angle, P.E.
456 N. 61st Street
Shreveport, LA 71106

Royce W. Anstead, P.E.
9415 Blom Blvd.
Shreveport, LA 71118

Spate R. Anthony, P.E.
Rt. 1, Box 282M
Mooringsport, LA 71060

Clarence L. Apple, P.E.
381 Albany
Shreveport, LA 71105

Herbert L. Arnold
3601 Dee St. Apt. 513
Shreveport, LA 71105

Ben D. Atchley, Jr., P.E.
412 LaSalle St.
Shreveport, LA 71107

Ben D. Atchley, Sr., P.E.
412 LaSalle St.
Shreveport, LA 71107

Bruce C. Ayres, P.E.
6308 Kathy Ln.
Shreveport, LA 71105

W. S. Bailey, P.E.
280 Hidden Hollow Dr.
Shreveport, LA 71106

George A. Baldwin, Jr.
P.O. Box 1747
Shreveport, LA 71166

John R. Barnwell
222 Petroleum Tower
Shreveport, LA 71101

Leslie Dillahunt, P.E. 5074 Town North Dr. Shreveport, LA 71107	William E. Fitzgerald, P.E. Box 6030 Shreveport, LA 71106	Billy J. Guin, P.E. 924 Erie Shreveport, LA 71106	John L. Iles P.O. Box 5032 Shreveport, LA 71105
Joseph R. Dodson 143 Lister Shreveport, LA 71101	Homer Flynn, Jr., P.E. 1947 Bayou Dr. Shreveport, LA 71105	Morris J. Gullledge, Jr., P.E. P.O. Box 6617 Shreveport, LA 71106	Frank W. Irland, P.E. 9999 Smitherman Dr. #507 Shreveport, LA 71115
Amos L. Doucet, P.E. 10116 Lomita Dr. Shreveport, LA 71115	Chas. B. Foster, Jr., P.E. 736 Monrovia St. Shreveport, LA 71106	John J. Guth, Jr., P.E. 208 Milam St. Shreveport, LA 71101	George Jambor, P.E. 3827 Southern Ave. Shreveport, LA 71106
Donald R. Downs, P.E. 2620 Centenary Blvd. Shreveport, LA 71104	Kenneth W. Frazier, P.E. Box 7338 Shreveport, LA 71107	Gregory G. Hall, P.E. 3004 Knight, Suite 460 Shreveport, LA 71105	Joseph W. Jean, Jr., P.E. 700 Petroleum Tower Shreveport, LA 71101
Richard M. Doyle, P.E. 1523 Dora Ann Place Shreveport, LA 71105	E. J. French, P.E. 307 Rossitter Shreveport, LA 71105	Thomas M. Hamm, P.E. P.O. Box 21734 Shreveport, LA 71151	Edwin N. Jett Rt. 1, Box 55A Athens, LA 71003
Albert E. Dumas, P.E. 2018 Capt Shreve Shreveport, LA 71105	Donald R. Friday, Jr. P.O. Box 3592 Shreveport, LA 71103	Frank Harris, P.E. 208 Milam Shreveport, LA 71101	Joann Johnson 9595 Mansfield Dr. Shreveport, LA 71130
Sebastian J. Durr, Jr., P.E. 8610 W. Wilderness Way Shreveport, LA 71106	John C. Galen, P.E. 10020 Village Green Shreveport, LA 71115	J.G. Harriss, Jr., P.E. 3827 Southern Ave. Shreveport, LA 71106	E.M. Jolly, P.E. 1055 Louisiana Shreveport, LA 71101
Osborne J. Dykes, Jr., P.E. P.O. Box 6150 Shreveport, LA 71106	W.T. Gamble, P.E. Rt. 1, Box 61 Logansport, LA 71049	Jeffrey M. Harris 2747 Holloway Rd. #1301 Pineville, LA 71360	Arnott L. Jones, Jr., P.E. 819 Kings Hwy. Shreveport, LA 71104
William D. Eakin 9072 Lone Oak Shreveport, LA 71118	Richard E. Gardner P.O. Box 37577 Shreveport, LA 71103	Earl M. Harter, Jr., P.E. 2800 Youree Dr. Shreveport, LA 71104	Richard A. Jones 6312 Frondosa Shreveport, LA 71119
John B. Edmonds, P.E. 6801 W. 70th Lot 23 Shreveport, LA 71129	Charles R. Gay, P.E. 130 Preston Shreveport, LA 71105	John F. Hawkins, Jr., P.E. 1112 Spring St. Shreveport, LA 71101	Robert E. Jones, P.E. 2715 Mackey, Suite 130 Shreveport, LA 71118
S. H. Edwards, Jr. 1547 Summers Shreveport, LA 71108	Debra A. Gegg 2410 Douglas Dr. Bossier City, LA 71111	Robert H. Hennigan, P.E. 601 Woodmere Dr. Shreveport, LA 71115	Roy D. Jones, P.E. 625 Lawrence Haughton, LA 71037
Joseph R. Efferson 3754 Greenway Pl. Shreveport, LA 71105	Thomas H. Germany, P.E. P.O. Box 1734 Shreveport, LA 71102	Kenneth V. Hill, P.E. 600 Petroleum Tower Shreveport, LA 71101	Jack C. Jorden, Jr., P.E. 6721 East Ridge Dr. Shreveport, LA 71106
Clarence L. Eldred, P.E. 317 Stratmore Dr. Shreveport, LA 71115	John F. Gillespie, Jr., P.E. P.O. Box 1551 Shreveport, LA 71102	Robert Hill, P.E. 1630 Margaret St. Bossier City, LA 71112	L. E. Kneipp, P.E. 6001 Fox Ct. Shreveport, LA 71109
Raul G. Espinosa Box 21734 Shreveport, LA 71151	Wesley D. Glassell, P.E. 2026 DeSoto Shreveport, LA 71103	Fred G. Holt 6354 Inwood Rd. Shreveport, LA 71119	Larry W. Laborde 115 Napoleon Shreveport, LA 71107
Gary W. Fenner 1055 La Ave. Shreveport, LA 71101	Charles S. Goodrich, P.E. 7303 W. Park Rd. Shreveport, LA 71129	Robin M. Hood, P.E. 633 McCormick St. Shreveport, LA 71104	Lawrence C. Lashley, Jr., P.E. P.O. Box 21734 Shreveport, LA 71151
Robert D. Fenner, P.E. 1055 Louisiana Ave. Shreveport, LA 71101	Robert E. Gray 700 American Tower Shreveport, LA 71101	Lloyd G. Hoover, P.E. P.O. Box 37577 Shreveport, LA 71103	Allen Lee, P.E. Box 246 Arcadia, LA 71001
B.M. Ferguson, P.E. 6th Floor Petroleum Tower Shreveport, LA 71101	Edward C. Greco, P.E. P.O. Box 3952 Shreveport, LA 71103	John L. Horton, P.E. P.O. Box 3115 Shreveport, LA 71130	Paul Lee 4213 Lakeshore Dr. #205 Shreveport, LA 71103
Richard F. Fitzgerald Box 6030 Shreveport, LA 71106	Don A. Greer, P.E. 234 Rossitter St. Shreveport, LA 71105	R. L. Horton, P.E. 213 Preston Ave. Shreveport, LA 71105	Philip J. Lindsay, P.E. 421 Albert Ave. Shreveport, LA 71105
Robert W. Fitzgerald, P.E. Box 6030 Shreveport, LA 71106	Richard F. Griswold, P.E. 1404 Airline Bossier City, LA 71112	Jerry E. Howard, P.E. Box 1734 Shreveport, LA 71151	Tang Jyi Liou, P.E. 1055 Louisiana Ave. Shreveport, LA 71101

John H. Livingston, P.E.
P.O. Box 155
Elm Grove, LA 71051

George L. Logan, P.E.
903 Beck Building
Shreveport, LA 71101

Robert D. Lovell
3102 June Lane
Bossier City, LA 71112

Gerald D. Lynde
5312 Iris Circle
Bossier City, LA 71112

Val A. Lyons, P.E.
260 Ockley Dr.
Shreveport, LA 71105

James T. Maranto, P.E.
P.O. Box 1763
Shreveport, LA 71166

Robert T. Maranto, P.E.
9302 Riva Ridge
Shreveport, LA 71115

Gordon A. Marsalis, P.E.
P.O. Box 3737
Shreveport, LA 71103

Danny F. Martin
2625 E. Cavett Dr.
Shreveport, LA 71104

Edwin R. Martin
731 Wilder Place
Shreveport, LA 71101

John Maurer, Jr.
7606 Brook Haven
Shreveport, LA 71105

W.G. Mayer, P.E.
301 Westerfield
Bossier City, LA 71111

Frank W. McCarthy, P.E.
3820 Fairfield Oaks #100
Shreveport, LA 71104

Harrod H. McClelland, P.E.
760 Slattery
Shreveport, LA 71104

Richard I. McDonald, P.E.
3000 Knight St., Suite 3000-I
Shreveport, LA 71105

Robert E. McDowell, P.E.
P.O. Box 5897
Shreveport, LA 71105

Elwin L. McGee, P.E.
534 E. Southfield
Shreveport, LA 71105

George E. McInnis, P.E.
P.O. Box 610
Minden, LA 71055

John L. McInnis, P.E.
119 Pearl St.
Minden, LA 71055

James G. McKenzie, P.E.
1702 Shady Lane
Shreveport, LA 71108

J. R. McKinley, P.E.
243 Patton St.
Shreveport, LA 71105

Ralph R. McKinney, Jr., P.E.
7407 Prestbury Court
Shreveport, LA 71129

Oliver R. McKnight, P.E.
P.O. Box 5192
Bossier City, LA 71010

Michael G. Mellon
1648-B Edwin St.
Shreveport, LA 71103

Richard D. Michaels, P.E.
P.O. Box 5042
Shreveport, LA 71105

James L. Miles, P.E.
7209 Red Fox Trail
Shreveport, LA 71129

Frederick Z. Mills, P.E.
521 Delaware
Shreveport, LA 71106

James D. Mohr, P.E.
6025 Buncomb Dr.
Shreveport, LA 71129

Danny R. Moore, P.E.
P.O. Box 668
Homer, LA 71040

Scott A. Mundy
2039 Bermuda
Shreveport, LA 71105

Gordon M. Naquin, P.E.
1521 Concord Dr.
Shreveport, LA 71105

Robert A. Neff, P.E.
P.O. Box 3728
Shreveport, LA 71103

J.T. Nesbitt, P.E.
520 Spring St.
Shreveport, LA 71101

Otter P. Ottersen, P.E.
4515 S. Fairway Dr.
Shreveport, LA 71109

Jim H. Oxner
Rt. 4, Lot #41
Shreveport, LA 71107

James L. Peck, Jr., P.E.
P.O. Box 21106
Shreveport, LA 71156

Ronald G. Poole, P.E.
Ops Engr. Dept. Box 21734
Shreveport, LA 71151

Theodore J. Povinelli, P.E.
Box 31111
Shreveport, LA 71130

Homer Purtle, Jr., P.E.
411 East and West Sts.
Minden, LA 71055

Frank W. Quin, Jr., P.E.
416 Galway Dr.
Shreveport, LA 71115

James R. Qvalls
9512 Oleander Circle
Shreveport, LA 71118

Forrest N. Raburn, P.E.
1055 Louisiana Ave.
Shreveport, LA 71101

David A. Renshaw, P.E.
P.O. Box 1426
Mansfield, LA 71052

Donald F. Richardson, P.E.
P.O. Box 37006
Shreveport, LA 71103

Kyle G. Ristig
8501 Millicent Way #2130
Shreveport, LA 71115

Joe E. Roach, P.E.
828 Shreveport-Barksdale Hwy.
Shreveport, LA 71105

Claude M. Roberts, P.E.
8917 Bayonne Dr.
Shreveport, LA 71118

Bruce L. Robertson, P.E.
Dept. 347, P.O. Box 31111
Shreveport, LA 71130

William C. Robertson, P.E.
3753 Greenway Pl.
Shreveport, LA 71105

Tilden J. Robichaux, Jr., P.E.
1941 E. 70th St.
Shreveport, LA 71105

Wayne Roggenkamp, P.E.
320 Ellerbe Ridge Dr.
Shreveport, LA 71106

Paul O. Rottman, P.E.
456 Albany Ave.
Shreveport, LA 71105

Thomas F. Ruffin, P.E.
P.O. Box 571
Shreveport, LA 71162

Thomas F. Ruffin, P.E.
P.O. Box 571
Shreveport, LA 71162

Ralph F. Schexnayder, P.E.
2045 Flournoy Lucas Rd.
Apt. 121
Shreveport, LA 71118

James R. Schmidt, P.E.
6342 Border Lane
Shreveport, LA 71109

Robert M. Scoggins, P.E.
P.O. Box 7812
Shreveport, LA 71107

Harold E. Scott, P.E.
Rt. 1, Box 539
Haughton, LA 71037

John J. Scott, P.E.
515 Janie Lane
Shreveport, LA 71106

Ralph S. Segall, P.E.
P.O. Box 4036
Shreveport, LA 71104

Jerald P. Seidel
P.O. Box 97
Cotton Valley, LA 71018

Edwin C. Sincos, P.E.
Box 90
Haynesville, LA 71038

B. Smith
9201 Blue Spruce
Shreveport, LA 71108

Clinton L. Smith, P.E.
8905 Sweetbriar Lane
Shreveport, LA 71108

Columbus L. Smith, Jr., P.E.
P.O. Box 5952
Bossier City, LA 71111

Michael I. Smith, P.E.
520 Spring St.
Shreveport, LA 71101

Ronald E. Smith
6304 Lexington
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M.P. Snyder, P.E.
P.O. Box 1445
Shreveport, LA 71164

W.C. Sorensen, P.E.
417 Monrovia
Shreveport, LA 71106

Desmond C. Sprawls, P.E.
2208 Chase Field
Shreveport, LA 71118

Curt M. Staley, P.E.
1800 Buckner Square A-1
Shreveport, LA 71101

William F. Standke, P.E.
1149 Arncliffe
Shreveport, LA 71107

John C. Statom, P.E.
9595 Mansfield Rd.
Shreveport, LA 71130

Edward E. Stevenson, P.E.
Rt. 4, Box 269
Shreveport, LA 71107

Ron E. Stokes, P.E.
809 Oneonta
Shreveport, LA 71106

Hubert E. Storer
P.O. Box 6761
Shreveport, LA 71106

Jack A. Terrill, P.E.
372 Atlantic
Shreveport, LA 71105

Pirach Thientawach, P.E.
1055 Louisiana Ave.
Shreveport, LA 71101

William C. Thurmon, P.E.
366 Arthur
Shreveport, LA 71106

Eric S. Tillstrom
700 Fern Ave. Apt. 205
Shreveport, LA 71105

Edmund H. Tooley, P.E.
627 Crockett St.
Shreveport, LA 71130

James W. Torbett, III
P.O. Box 711
Haynesville, LA 71038

Richard J. Tuttle
9416 Kroetz Dr.
Shreveport, LA 71118

Paul R. Waddle, P.E.
1802 Beck Bldg.
Shreveport, LA 71101

Rufus E. Walker, P.E.
7350 Julie Frances Dr.
Shreveport, LA 71129

Albert G. Walton, P.E.
P.O. Box 21734
Shreveport, LA 71151

Chester C. Watson, P.E.
P.O. Box 37479
Shreveport, LA 71103

Perry V. Watson, Jr., P.E.
302 Oak Ridge
Haughton, LA 71037

Frederick W. Watt, Jr.
208 Milam St.
Shreveport, LA 71101

Lester E. Wenk, P.E.
737 Neal Dr.
Shreveport, LA 71107

C. Walker Weston, Jr., P.E.
3530 Mansfield Rd.
Shreveport, LA 71103

Billie G. Wheeler, P.E.
Box 6619
Shreveport, LA 71106

Warren N. White, P.E.
P.O. Box 4188
Shreveport, LA 71104

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8501 Millicent Way, Apt. 2128
Shreveport, LA 71115

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1840 Texas Ave.
Shreveport, LA 71103

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Spring Hill, LA 71075

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Minden, LA 71055

John C. Wilson, P.E.
733 Cecile Pl.
Shreveport, LA 71106

Kenneth W. Winterrowd
P.O. Box 5757
Bossier City, LA 71111

John J. Wise, P.E.
P.O. Box 21734
Shreveport, LA 71151

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P.O. Box 7911
Shreveport, LA 71107

David W. Wright, P.E.
331 Ellerbe Dr.
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Shreveport, LA 71102

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6722 N. Park Circle
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Lazy Acres, Rt. 2
Pass Christian, MS 39571

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Houston, TX 77001

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Hallettsville, TX 77964

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P.O. Box 7826
Beaumont, TX 77706

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6 Eastwind Road
Yonkers, NY 10710

Albert J. Bergamini, P.E.
Route 1, Box 658
Karnack, TX 75661

Douglas B. Blackburn, P.E.
34 South Shore Trail
Sparta, NJ 07871

Robert F. Bland, P.E.
4544 Post Oak Pl. #170
Houston, TX 77027

Foster Bond, P.E.
700 Avenue C SE
Winter Haven, FL 33880

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Denver, CO 80237

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170 Parkway
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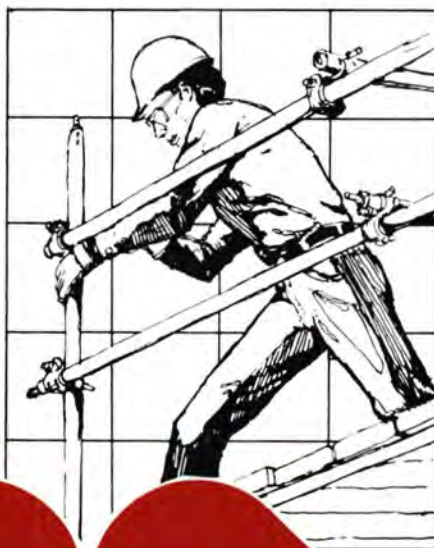
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Lake Toxaway, NC 28747
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6702 Rivington Ct.
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Jersey Shore, PA 17740
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4859 Warrington
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708 Kent Rd.
Kenilworth, IL 60043
- Michael A. Ketterer**
6305 Westgate
Beaumont, TX 77706
- Larry S. Kilpatrick**
P.O. Box 311
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Nashville, TN 37205
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2419K Dyke Circle
Marietta, GA 30067
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42 Woodbridge Dr.
Bethel Park, PA 15102
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14826 Turkey Trail
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- Huey K. Lawson**
Box 610 #196 W. 11th Ave.
Columbus, OH 43210
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14515 Enchanted Val Dr.
Cypress, TX 77429
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Houston, TX 77027
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122 Danefield Place
Morga, CA 94563
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3735 Country Place Dr. #512
Stafford, TX 77477
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Box 281
Warner Robins, GA 31099
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Houston, TX 77006
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2204 Atchley St.
Knoxville, TN 37920
- Glynda H. Martin**
1616 Ridge Road
Homewood, AL 35209
- Hans M. Mathiesen, P.E.**
800 Country Place Dr. #204
Houston, TX 77079
- Robert R. McBride, P.E.**
342 Schumann Rd.
Bellville, TX 77418
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113 Elmwood Rd.
Wellesley, MA 02181
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Rt. 9, Box 4545
Lufkin, TX 75901
- Alvin F. Meyer, Jr., P.E.**
1600 Longfellow St.
McLean, VA 22101
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2515 Derbyshire Court
W. Lafayette, IN 47906
- Clayton A. Moore**
Rt. 5, Box 877
Duncan, OK 73533
- William M. Moring, P.E.**
6131 Birchmont
Houston, TX 77092
- Harold E. Mortimer, P.E.**
273 West Circuit Dr.
Beaumont, TX 77706
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7604 Ridgecrest Dr.
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6228 Parallel Lane
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200 Stovall St.
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9003 Weymouth Dr.
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104 Avenue D, N.W.
Winter Haven, FL 33880
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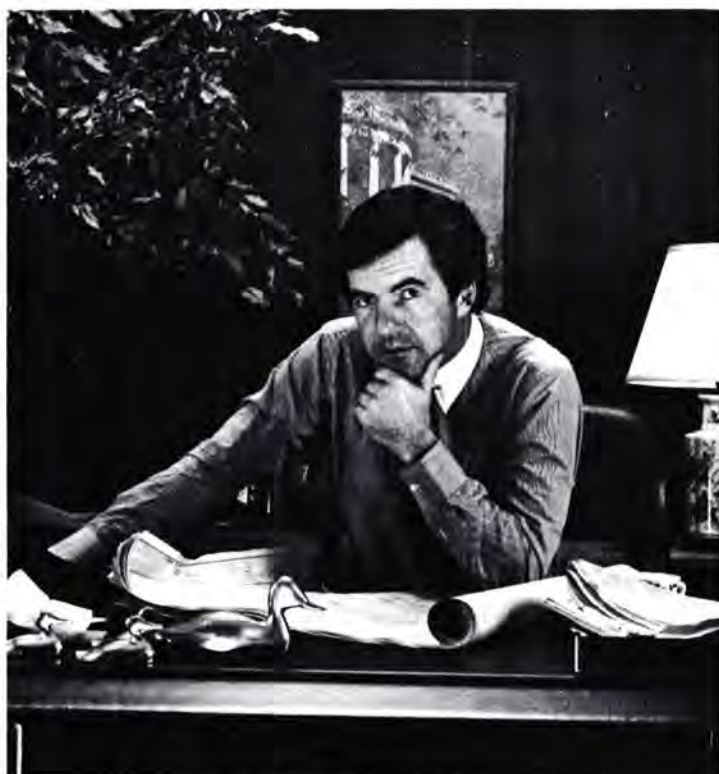
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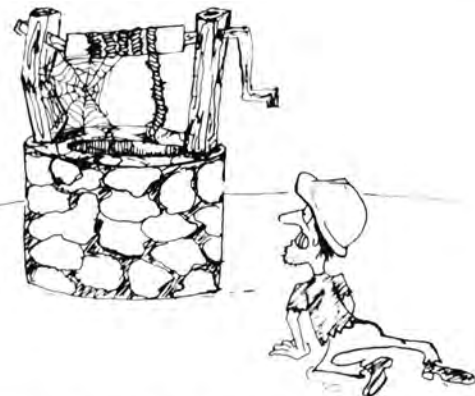
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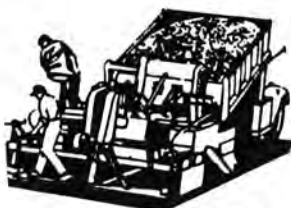
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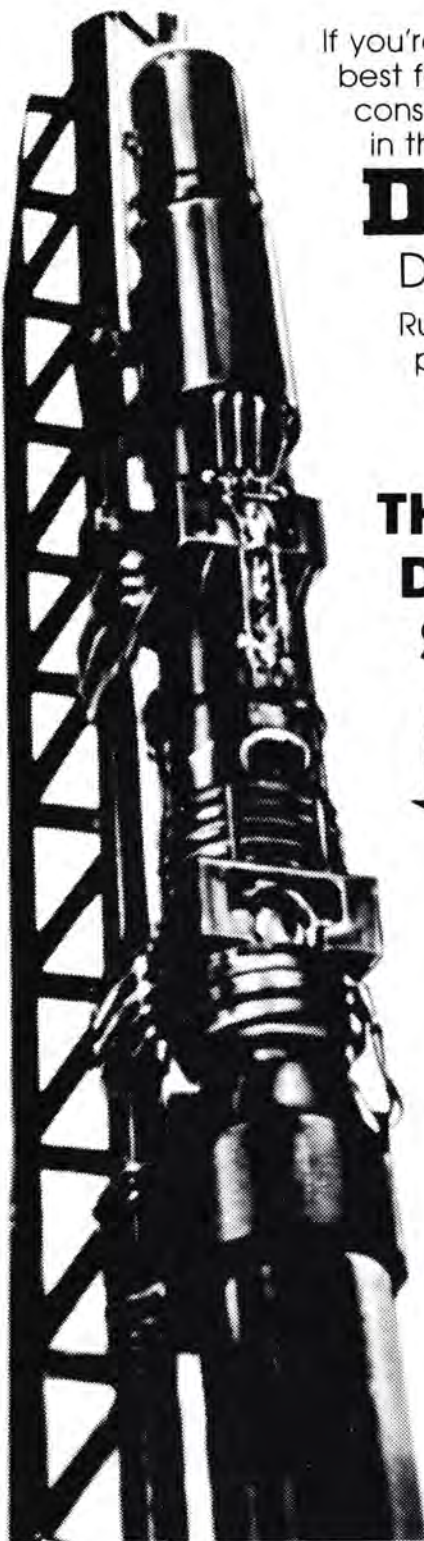
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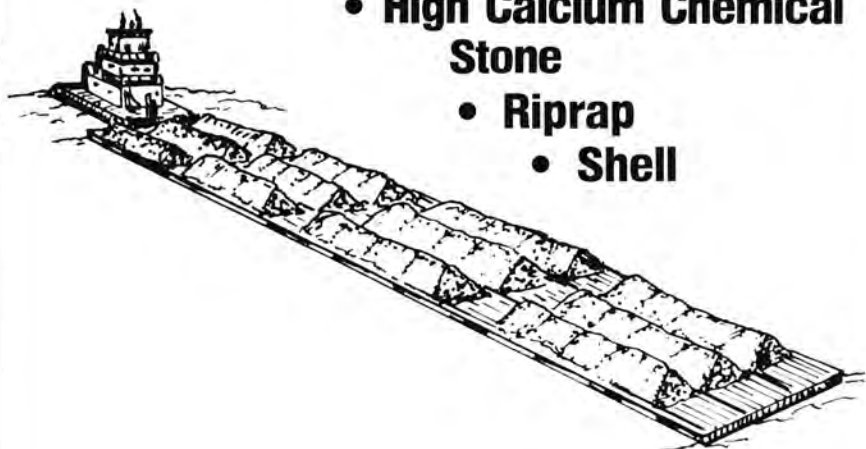
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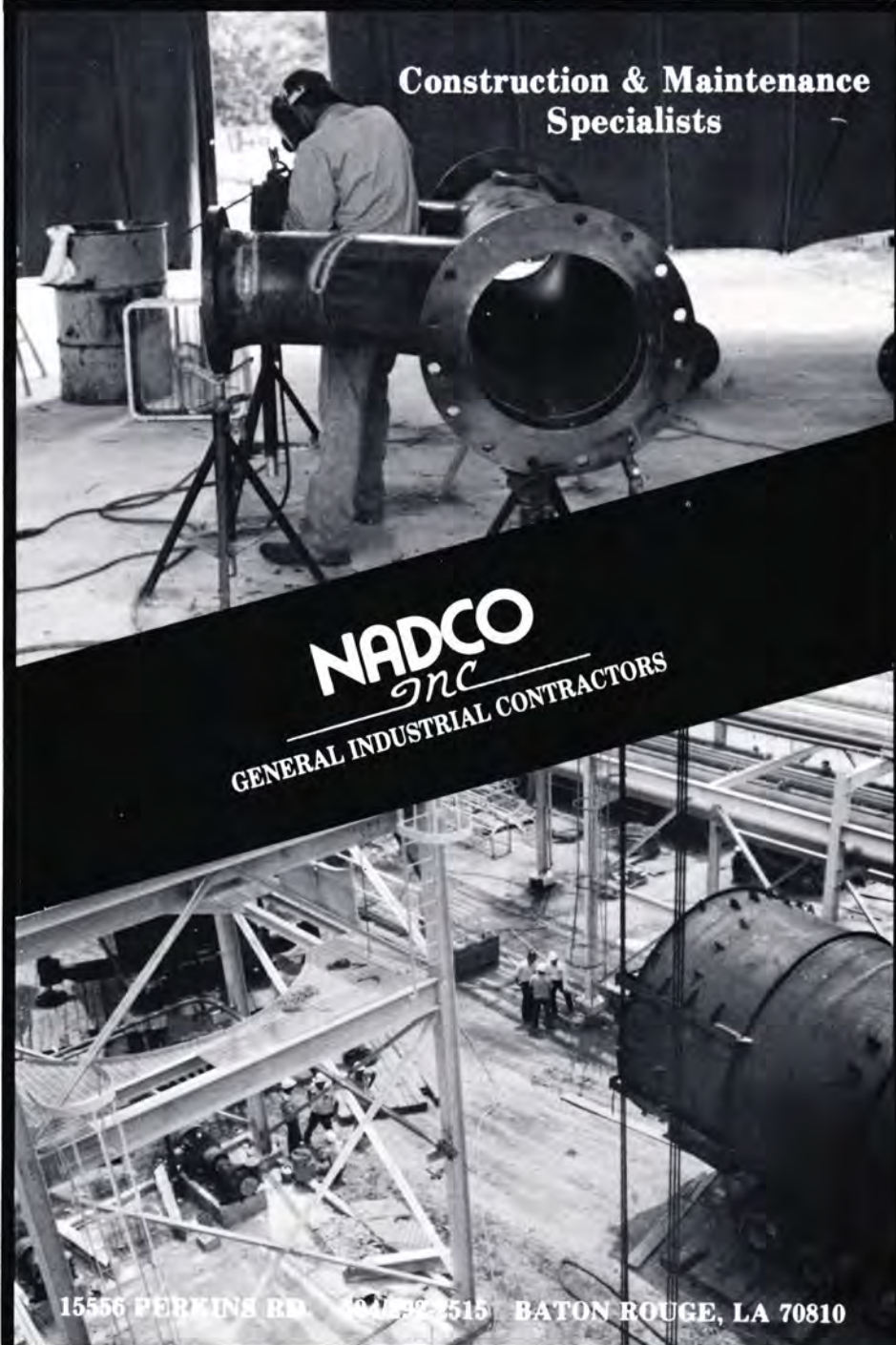


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 Leblanc, Owen V., P.E.-7-IND
 Leblanc, Wharton A., P.E.-7-IND
 Lechtenberg, Wendel J., Sr.,

Lecourt, Stanley M., P.E.-7-PEP
 Leibe, Wendel G., P.E.-7-GOV
 Lemieux, Henry F., P.E.-9-IND
 Leshe, Fred E.-5-IND
 Levine, David J., P.E.-7-IND
 Levy, David P., P.E.-7-IND
 Lockett, R. P., Jr., P.E.-7-None
 Lockett, T. B., P.E.-7-IND
 Logan, George L., P.E.-8-PEP
 Lorio, Jules A.-7-None
 Louchis, Stavros, D., P.E.-9-IND
 Loup, Alfred J., Jr., P.E.-2-CON
 Lyons, Val A., P.E.-8-PEP
 MacDonald, Frank W., P.E.-7-EDU
 MacKenzie, Kenneth W.-9-IND
 Manner, H. H., Jr.-2-IND
 Marquart, Harold O.-7-PEP
 Marsalis, Gordon A., P.E.-8-IND
 Martinez, John L., P.E.-7-EDU
 Massimini, W. A., P.E.-7-IND
 Mathews, Emmet L.-1-CON
 May, George E., P.E.-7-None
 Mayer, John K., P.E.-7-PEP
 McAfee, Samuel H., P.E.-7-IND
 McCain, John I., P.E.-2-PEP
 McGuire, George B.-9-IND
 McLean, George E., P.E.-7-IND
 McLellan, Edward A., P.E.-7-PEP
 McNamara, E. J., P.E.-7-IND
 Metz, Edward R., P.E.-2-PEP
 Meyers, Albert J., P.E.-7-None

Miller G. W., P.E.-2-IND
 Molaison, Henri, Jr., P.E.-7-PEP
 Montgomery, Joseph T., P.E.-7-PEP
 Moody, Lamon L., Jr., P.E.-2-PEP
 Mooney, Joseph R., P.E.-7-None
 Moore, Andrew M., P.E.-1-IND
 Moore, James H., Jr.-2-None
 Morehiser, John E., Jr., P.E.-7-GOV
 Morgan, Keith H., P.E.-7-None
 Morgan R. D., P.E.-2-GOV
 Morris, Dewitt L., P.E.-7-IND
 Moses, Walter B., P.E.-7-PEP
 Muller, Richard F., Sr., P.E.-7-None
 Nairne, Clayton L., P.E.-7-IND
 Nall, Robert L.-7-None
 Naquin, Arthur J., P.E.-7-EDU
 Nasca, Steve A., P.E.-2-GOV
 Nelson, Waldemar S., P.E.-7-PEP
 Newlin, Clifton R.-7-None
 Nolan, S.D., P.E.-5-IND
 O'Rourke, Don J., P.E.-4-PEP
 Odom, Leo M., P.E.-2-PEP
 Ory, Francis J., P.E.-7-CON
 Oster, William P., P.E.-7-None
 Owsley, Henry F., Jr.,-7-PEP
 Patout, Jules G., P.E.-4-IND
 Pavia, Edgar H., P.E.-7-PEP
 Pellerin, N.L., P.E.-7-IND
 Perrilliat, Clairborne, P.E.-7-None
 Perrin, Felicien, P.E.-7-PEP
 Phillips, Charles J., P.E.-2-PEP
 Phillips, Richard E., P.E.-2-IND

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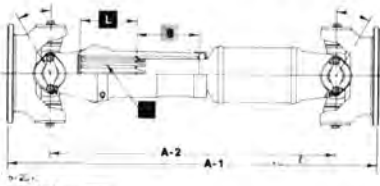


Plauche, Walter F., P.E.-7-PEP
 Pominski, Joseph, P.E.-7-GOV
 Poole, Wiley D., P.E.-2-EDU
 Poulan, Henry T., P.E.-6-PEP
 Price, Jerome L.-2-IND
 Purdum, Ward C., P.E.-7-None
 Ramsey, Ambrose K., Jr., P.E.-2-EDU
 Randol, Paul E., P.E.-1-IND
 Reed, C.E., P.E.-7-IND
 Reed, Marion B., P.E.-2-EDU
 Reed, Robert N., P.E.-2-IND
 Reynaud, Larry F., P.E.-9-IND
 Richardson, W. P., P.E.-7-IND
 Ricketts, Grantley B., P.E.-9-None
 Riorda, Joseph S.-7-IND
 Ritter, John E., P.E.-2-IND
 Roach, Calvin J., P.E.-4-IND
 Robinson, Ernest T., Jr., P.E.-9-IND
 Rodriguez, A. R., P.E.-7-None
 Rosenbohm, Louis, J., Jr., P.E.-7-PEP
 Schell, Donald B., P.E.-7-PEP
 Schluter, John H., P.E.-7-GOV
 Schneider, Edward L., P.E.-7-PEP
 Schwarz, Walter J., P.E.-7-CON
 Seago, R. M., P.E.-7-None
 See, Richard M., P.E.-5-IND
 Segall, Ralph S., P.E.-8-CON
 Seiferth, Solis-7-None
 Sessions, J. P., P.E.-1-PEP
 Sessums, Roy T., P.E.-7-IND
 Shaw, Richard M., P.E.-7-GOV
 Shilstone, Cecil M., P.E.-7-PEP

Simoneaux, Jules E., P.E.-7-IND
 Singleton, R. M., Jr., P.E.-7-IND
 Smith, Glendon L.-5-IND
 Smith, H. R., P.E.-5-IND
 Snyder, M. P., P.E.-8-PEP
 Sperier, Wesley J., P.E.-7-GOV
 St. Raymond, John P., P.E.-7-PEP
 Standke, William F., P.E.-8-PEP
 Stayer, David, P.E.-9-GOV
 Stevens, Ashby B., P.E.-1-IND
 Stevenson, George F., P.E.-2-GOV
 Stewart, Bingham C.-7-IND
 Stokes, Charles W., P.E.-5-IND
 Stream, Harold H., Jr., P.E.-7-IND
 Swayne, Robert J., Jr., P.E.-7-PEP
 Swindler, Benny J., P.E.-2-CON
 Templet, Guy E., P.E.-2-PEP
 Thigpen, J. J., P.E.-6-EDU
 Thompson, Abijah W., P.E.-7-PEP
 Thompson, Horace A., Jr., P.E.-7-PEP
 Thurmon, William C., P.E.-8-IND
 Toney, Everette E., P.E.-5-IND
 Tullis, Charles G., P.E.-9-IND
 Turner, William O.-7-IND
 Turner, William T., P.E.-9-IND
 Verlander, Walter J., P.E.-7-None
 Vick, H. R., P.E.-7-GOV
 Vincent, Rodney M., P.E.-5-IND
 Vincent, Walter C., P.E.-4-GOV
 Vliet, Daniel H., P.E.-7-EDU
 Voelkel, Christian M., P.E.-7-IND
 Vogt, John F., Jr., P.E.-7-IND

Wagner, Richard E., P.E.-9-GOV
 Walk, Frank H., P.E.-7-PEP
 Wall, Charles W.-2-IND
 Wallace, Wayne P., P.E.-4-EDU
 Wallbillich, Stephen J., P.E.-7-None
 Walther, George B., Jr., P.E.-5-PEP
 Warren, Francis J., Jr., P.E.-7-IND
 Warren, James S., P.E.-7-IND
 Weatherly, Charles H., P.E.-7-PEP
 Welsch, E. J., P.E.-7-PEP
 Wenk, Lester E., P.E.-8-IND
 Westerchil, Charles R., P.E.-1-IND
 Willey, L. V., P.E.-2-GOV
 Williams, Aaron D., Jr., P.E.-6-None
 Williams, Gerald C., P.E.-2-CON
 Williams, R. L., P.E.-7-IND
 Williams, Robert M., P.E.-7-PEP
 Williams, W. H.-7-PEP
 Wintz, William A., Jr., P.E.-2-EDU
 Zervigon, Mario G., P.E.-7-PEP
 Ziifle, Robt. W., P.E.-7-IND
 Zumwalt, T. H., P.E.-7-None

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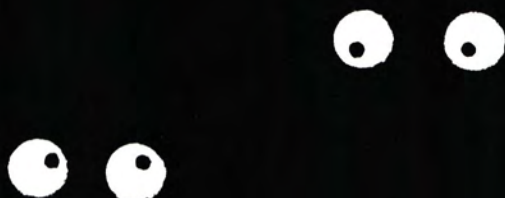
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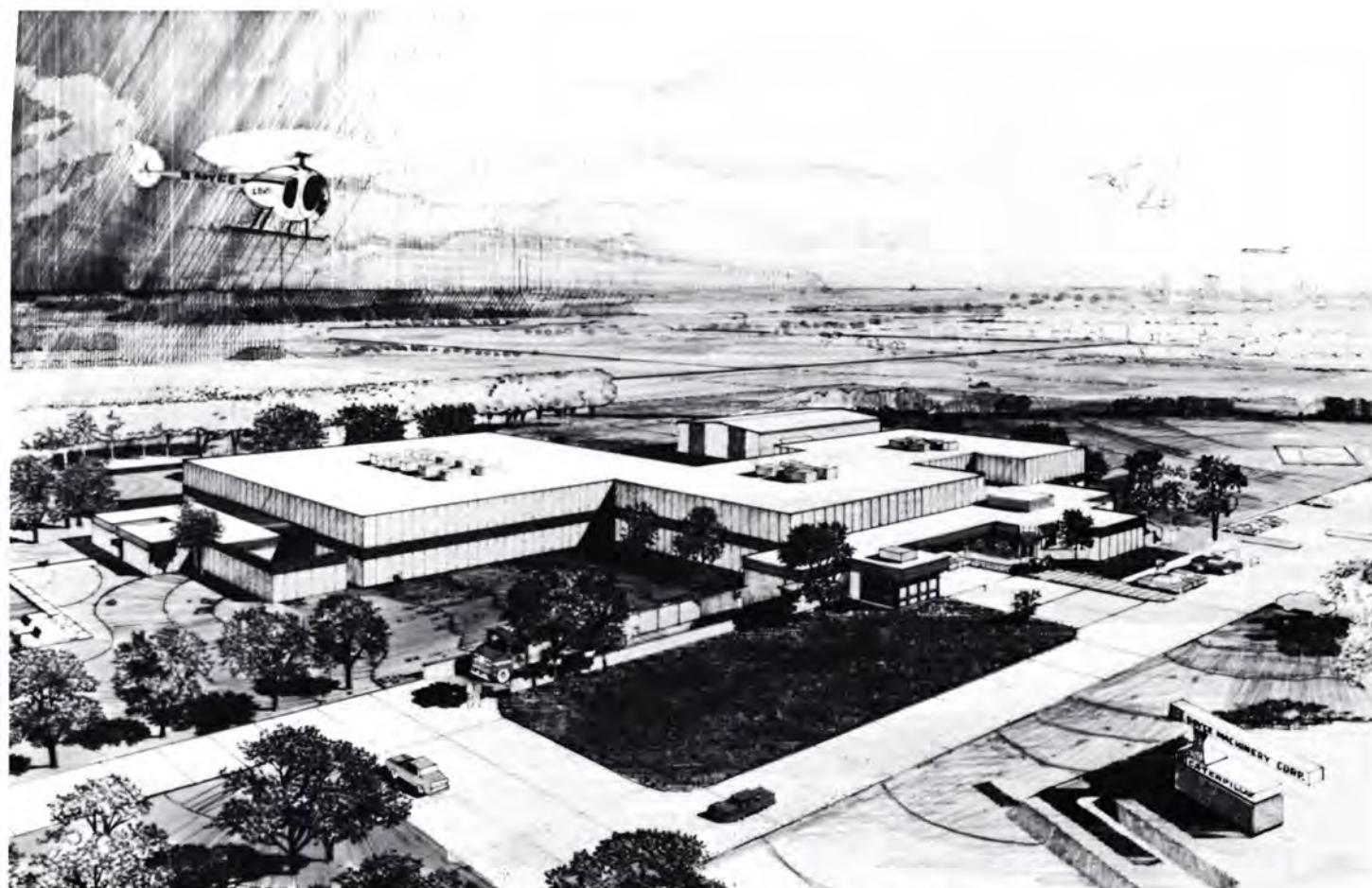


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Boyce Machinery Corporation has made the largest single financial commitment in its 34 year history, and they've made it to expand their product support for South Louisiana's marine and petroleum industries. Boyce has begun construction on a new \$7.5-8 million dollar remanufacturing facility and full service store on U.S. Hwy 90 East in Lafayette. Scheduled for completion in early 1983, the complex will service the full line of Caterpillar equipment, and is at the center of a major drive to expand engine and component remanufacturing capabilities. Boyce Machinery is the first dealer in the entire Caterpillar organization to design and build a remanufacturing facility with special emphasis on big bore engines for the marine and petroleum industries.

The store will include a welding and utility shop and will serve all Caterpillar customers in the Acadiana parishes. The location will serve as Boyce's central remanufacturing facility for all diesel engines and major earthmoving equipment components for the company's entire South Louisiana territory.

When completed, the Lafayette store will include 95,000 square feet of building under roof,

and 210,000 square feet of paved area, situated on 20.3 acres. Total number of employees is estimated at 200 - skilled mechanics and parts personnel.

Extensive field service for marine and petroleum customers will be backed up by a full-service shop and parts department.

Product Support has always been a priority at Boyce Machinery Corporation. The opening of this Lafayette store will allow expansion of that dedication, providing more service and remanufacturing capabilities. Boyce's commitment to its marine and petroleum customers in South Louisiana is more than an advertising slogan, it's a total way of doing business!

Earl Guillot is the Lafayette store Manager, having formerly served in that capacity in the company's Morgan City location. In addition to Lafayette and Morgan City, other Boyce stores are located in Lake Charles, Baton Rouge, Reserve and New Orleans.

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LOUISIANA ENGINEERING SOCIETY

84 YEARS OF ACCOMPLISHMENT HISTORICAL HIGHLIGHTS

BY JOHN P. FERNANDEZ, P.E.

Members of the Louisiana Engineering Society can be proud that they belong to the oldest state organization of its kind in the nation. It was conceived in the fall of 1897 by J. F. Coleman, who was then the principal engineer for the City of New Orleans. Mr. Coleman later became a distinguished engineer, the recipient of many honors, who was acclaimed nationally as a professional-minded leader. Believing in the creed that it was the duty of all engineers to keep abreast of new technical developments, and knowing too well the meager earnings of his fellow professionals (at that time his own salary was \$135 per month) it occurred to Mr. Coleman that engineers could pool their resources to avail themselves of expensive professional publications. This thirst of knowledge and desire for self-improvement was shared not only by our founding fathers but by many of the old timers. From the Society's very beginning the greater part of the membership dues was allocated to the support of a technical library, and one of its first actions was to select a committee to investigate sites for housing the library. Its volumes grew and provided a source of valuable information for engineers until World War II, when its use declined appreciably. In 1955, when the Society moved its headquarters from the St. Charles Hotel to the Engineers Club of New Orleans, the painful decision was made to discontinue the library.

In The Beginning

The first organizational meeting of LES was held on December 22, 1897. On that memorable day fourteen professional-minded engineers met in Room 19 of the old City Hall, now known as Gallier Hall. It was decided that the purpose of the Society would be "for the professional improvement of its members and for the advancement of the engineering profession." Temporary officers were selected and two committees were appointed, but most of the evening was spent in discussing the type of organization the Louisiana Engineering Society was to be so that the Constitution and Bylaws Committee could be properly guided.

On January 8, 1898 a Constitution and By-laws were adopted and a motion was passed to incorporate. Notary Public Bussiere Rouen was authorized to prepare a charter. The manner of electing and installing officers was decided and sites recommended by the housing committee was discussed. On January 15th the following officers were elected and installed:

Sidney F. Lewis	President
C. H. Chamberlin	Vice President
J. F. Coleman	Secretary
A. F. Theard	Treasurer
T. L. Raymond	Director for 3 years
A. C. Bell	Director for 2 years
F. T. Llewellyn	Director for 1 year

On January 8, 1898 a Constitution and Bylaws were adopted and a motion was passed to incorporate an engineering society, for Louisiana law required a minimum of twenty-five charter members. Immediately a drive began and by February 3rd fifteen new members were admitted. On that day the charter was recorded, bearing the signatures of twenty-nine members. February 3rd also marked the selection of the Society's first home, the second floor of 712 Union Street. Until then all meetings had been of an organizational nature, but on February 14th the first regular meeting was held in the Society's headquarters. The President read a technical paper, after which members and guests joined in discussion. Anyone with technical knowledge on the subject was encouraged to comment and young men were urged to ask questions. This audience participation was such a success that it became standard form for all subsequent regular meetings. On March 5th, thirty new members were admitted, including three who resided outside of New Orleans. Thus was taken the first step to make the LES a state-wide organization.

Act of 1908

The initial work toward securing passage of a law to regulate the practice of engineering was begun as early as 1898. Our founding fathers were much concerned about engineering incompetency and wished to protect the public from the activities of "dabbers and quacks who had only to hang out a shingle in order to qualify for business." In 1900 and subsequent sessions of the Legislature bills were introduced,

but it was not until 1908 that a law was passed. Though we had been the first state to introduce a bill for registration of engineers, ours was the second law of its kind in the nation. Wyoming passed the first in 1907, and it was not until 1917 that Florida became the third state to regulate the practice of engineering.

Magazine

In 1914 it was decided that the Society would publish its own journal, to be titled "Proceedings of the Louisiana Engineering Society." It was to be issued bimonthly and to include papers presented at meetings, minutes of the Board of Direction and other pertinent information of interest to engineers. The first issue appeared in February 1915 with this editorial comment:

"The launching of this publication represents one of the most important steps the Society has ever undertaken . . . The record shows that the LES, with a comparatively small membership, and consequently with limited resources, has always been an active and going concern. Whatever it has undertaken to do in the past has been well done. This means that the spirit of the Society as manifested in the activity and enthusiasm of its members is one of high ideals and accomplishments. This in itself is the best augury for the success of this our new venture."

Successful it was for it never stopped growing. Much credit belongs to Dean Douglas Anderson, James M. Robert and Arthur M. Hill, the editors who piloted the publication through its first forty years.

The Golden Age

In June 1920 the American Council of Federated Engineering Societies was organized and LES became a charter member. The objectives of this council were similar to our own — to promote the social and economic welfare of engineers, stimulate public service in the profession and to strive for professional unity. Its first president was the Honorable Herbert Hoover, and Mr. Hoover was so impressed by our representatives that when he became President of the United States he appointed three LES members to important positions: Ernest Lee Jahncke became Assistant Secretary of the Navy, Marcel Garsaud, Member of the Federal Power Commission, and Professor William B. Gregory, Member of the Advisory Committee for the National Hydraulic Laboratory. Later in his administration President Hoover appointed J. F. Coleman to the Engineers' Advisory Board of the Reconstruction Finance Corporation and A. M. Lockett became local chairman of the Industrial Rehabilitation Committee, a Presidential Committee appointed to study the grave unemployment problems of that time.

Auxiliaries

The depression years marked another big milestone in the Society's growth pattern. In 1932, at the instigation of Mrs. William B. Gregory, a group of engineers' wives and relatives joined in an effort to establish a Student Loan Fund to help needy engineering students to get through college. Thus was the Woman's Auxiliary born and as LES chapters were established in the major cities auxiliaries were formed to assist them. Today all of our chapters have their ladies' counterparts, and each local group awards some type of financial assistance to an engineering school in its area. From its early years the New Orleans Auxiliary has maintained fellowships, scholarships and student loan funds. Through the generosity of the late Mrs. Samuel McCain Young, additional scholarships are now awarded in memory of her husband. Our ladies are a valuable asset to our organization. They form telephone committees to encourage chapter meeting attendance, manage the registration desk at state meetings add charm and grace to our social functions and help to enhance the image of the engineering profession, sometimes in unusual ways. In 1977 the New Orleans auxiliary was instrumental in establishing "Engineers' Grove" in City Park. Fifty magnolia trees were planted, each designated to memorialize a deceased engineer or honor a living member of our profession. LES is proud of its ladies' auxiliaries.

1935

Each LES president can point with pride to the accomplishment of his administration, but the tenure of Edward S. Bres was outstanding for several lasting innovations it introduced. In 1935 the first District Contact Representatives were appointed so that the Society could be better managed as a state-

wide organization. On May 13th, the first regular meeting to be held outside of New Orleans took place on the LSU campus at Baton Rouge. This set a pattern, and until the establishment of the Baton Rouge Chapter was effected, all subsequent administrations scheduled one meeting at our state capital. The year closed in regal fashion: the society held its first multi-day Annual Meeting, complete with industrial plant tours, and the new officers were installed with the elaborate protocol that became standard procedure for many years thereafter. In civic activities, the Society had been conspicuous in the dedication of engineering structures throughout the state. 1935 was a depression year when the Works Progress Administration was seeking worthwhile projects to pursue. Our Society suggested to the WPA that a comprehensive study be made on the soil conditions around New Orleans. The result was a most authoritative volume titled: "Some Data in Regard to Foundations in New Orleans and Vicinity" and directly below in golden letters "Collected and Compiled by the Soil and Foundation Survey as requested by the Louisiana Engineering Society." The value of this work has been recognized throughout the world, for copies of it have been requested from locations as far away as Egypt and India.

Chapters

As early as 1925, attempts were made to establish a chapter at Baton Rouge but it was not until November 20, 1939 that this was accomplished through the efforts of Prof. Boykin W. Peagues and Dean Leo J. Lassalle of LSU. On November 3, 1947 the Lake Charles Chapter was established under the guidance of F. Tackett Clarke and Ray E. Burgess. Then followed a period of incredible growth. This tremendous increase in membership was due to a group of energetic District Contact Representatives (E. M. Freeman of Shreveport, Roy T. Sessums of Monroe, Hiram Mason of Lafayette, Soule Butler of Alexandria) and the coordinating efforts of two dedicated men: Charles M. Kerr and Hermann L. Lehmann. In rapid succession the following chapters were chartered:

Shreveport	July 3, 1949
Monroe	October 3, 1949
Lafayette	October 10, 1950
Alexandria	February 15, 1951

As a result of the reorganization. New Orleans became a chapter October 12, 1964 and in April 1969 the Bayou Chapter was established to serve the Morgan City-Houma-Thibodaux area.

Act of 1950

The registration act of 1908 provided for the regulation of the practice of Civil Engineering and Land Surveying only. But though it was amended in 1914 and again in 1920 with the society's blessing, no provisions were added to broaden the act to include other branches of engineering. A near success did occur in 1932 when both houses of the Legislature passed an all-inclusive bill, but it failed to become law because of a last minute veto by the Governor. Then followed a period of dissension among engineers over problems of semantics and special interests.

In the controversy that accompanied the Society's effort to obtain a general registration law, the need for unity in the profession became apparent and the Louisiana Council of Engineers was formed. This council included all engineering organizations in the state, each having one vote. The President and the Secretary-Treasurer of LES served in the same capacities on the Council. Most of the items brought before the council were adaptable to compromise, and unification finally was achieved. In 1948 a general registration bill passed the Senate by a vote of 66 to 0, but once again it was vetoed by the Governor. After this failure President W. Stone Leake said: "At least this time we can say that the failure was not due to a difference of opinion among engineers, for all selfish interests were put aside, many compromises were made; and for once the engineers themselves presented a united front. This united front was brought about to a large extent by the Louisiana Council of Engineers, an organization that was the brainchild of our Past President, Glenn Cappel. This organization spent many hours of tedious work, writing and rewriting, before the final bill was decided upon."

At the following session of the Legislature practically the same bill was introduced, but this time we changed tactics. Because of our bitter experiences of 1932 and 1946, Roy Sessums suggested that a leading political figure be asked to introduce the bill as his own in order to lessen the chance of a veto. This was done and the bill became Act 73 of 1950. This act increased the five-member Board of Engineering Examiners to seven and enlarged its responsibility to regulate the practice of all Professional Engineering and Land Surveying, enumerating the major branches of engineering. The efforts of more than three decades had finally paid off, and we were elated over this momentous achievement. True, the new law did not please everyone, for many compromises had been made to insure passage. But now we had a solid foundation on which we could up-grade the practice of professional engineering and land surveying.

The administration of Waldemar S. Nelson brought another lasting accomplishment: the burning issue of whether or not to affiliate with a national organization was decided. At that time, The Engineers' Council for Professional Development was the acknowledged leader in educational matters, but the National Society of Professional Engineers and Engineers Joint Council were in competition for leadership of the practicing profession. Our membership was divided three ways: to join neither, or to join one or the other. After much study the Board of Direction supported what became known as the Functional Plan. This plan proposed that EJC would coordinate technical matters, ECPD educational matters and NSPE professional matters. The Board recommended that we affiliate with both NSPE and EJC and that an effort be made to bring the two together. After an extensive educational campaign wherein the pros and cons of affiliation were presented and thoroughly discussed, the membership voted to join both organizations. Years later, the Functional Plan was adopted at the national level, which led to the formation of the Board of Engineering Cooperation, which board consisted of the presidents and vice-presidents of EJC, NSPE, and ECPD. We are still affiliated with NSPE but late in 1979 EJC transferred its activities to a new organization, the American Association of Engineering Societies. Since NSPE is a member of this association and represents the LES in all of its programs and activities, we elected to discontinue our membership with EJC when AAES took over its duties.

In 1957, through the efforts of Otha E. Barron, the first State Planning Conference was held in Alexandria. The object of this conference was to improve communication among committee personnel. At that time the LES, like similar organizations, was led by its president, managed by the Board of Direction and run by standing committees. On the recommendation of incoming chapter presidents, the board appointed all standing committee personnel and each board member was assigned to sponsor at least one committee. He attended their meetings, relayed to them the board's ideas and reported the committee's activities at board meetings. Though two representatives from every chapter were appointed to each standing committee, out-of-town members found it difficult to attend meetings that usually were held in New Orleans, and often some chapters were not represented. This made it necessary to conduct a lot of business by correspondence. It was Otha's idea that all committeemen should get together in Alexandria, the geographic center of Louisiana. This conference was scheduled at the beginning of the administrative year and all committee personnel were expected to attend. Each committee met separately, with the board sponsor as moderator, to discuss goals and plans to achieve them during the incoming year. The conference closed with a general meeting where a spokesman for each committee reported its conclusions. From the beginning this conference was a great success and it continues to be held annually. It is now known as "The Chapter Officers Training and State Planning Conference."

Also in 1957, changes were made in the appearance and content of our bi-monthly publication in the hope that a larger income could be derived from advertising, but this was not realized. What did survive happily was the new title and format. Prior to this, it was known as "The Proceedings of the Louisiana Engineering Society" and contained principally the technical papers presented at our meetings. The new title became "The Louisiana Engineer" and the reading material was expanded for greater appeal. At a meeting of NSPE State Society Administrators' Council held in 1975, a number of state publications were examined with a view to improving them. At that time the Louisiana Engineer received high marks for its cover, format and art work.

Partners

For years the activities of the Society were brought to the attention of the public sporadically because there was no one to handle our publicity on a continuous basis and the cost of retaining a public relations professional was prohibitive. Another dream was the desire to improve our journal but, as noted, the 1957 change in format was not a monetary success. In 1959 the Louisiana State Board of Registration for Professional Engineers and Land Surveyors joined in our effort to strive for these goals. The LES and the State Board became partners in these two ventures. "The Louisiana Engineer" became the official organ of both organizations and a public relations consultant was engaged. The size of the journal was enlarged from 6" x 9" to its present dimensions of 8½" x 11", and it was sent to every engineer registered in the state as well as every member of the Society.

Honors

The Society has always sought to recognize outstanding accomplishment and service performed by engineers. Its purpose is not only to reward, but to inspire and encourage effort toward greater achievement by members of the profession. The earliest form of recognition used by the society was the highly esteemed Honorary Membership award, bestowed only upon persons of acknowledged eminence in engineering. The requirement of "acknowledged eminence" meant just that. As late as the mid-thirties the Constitution still required that candidates for Honorary Membership "shall be elected by unanimous vote of the Society."

The growth of membership eventually forced modification of such rigid requirements, and Honorary Membership now can be awarded with the approval of 75% of the Board of Direction combined with the affirmative vote of 80% of all living past presidents.

Today the Society presents a number of awards designed to recognize and encourage achievement in these specific areas:

Andrew M. Lockett Medal for Civic Activities — for distinguished civic service by an engineer in the public interest, without compensation for such service. Established in 1951.

James M. Todd Technological Accomplishment Medal — for distinguished service performed by an engineer leading to technological progress or discoveries as contributions to the advancement of engineering. Established in 1951.

A. B. Paterson Medal — for distinguished service performed by an engineer in the field of management. Established in 1965.

Charles M. Kerr Public Relations Award — for distinguished service in the promotion of public relations for the engineering profession in Louisiana. Established in 1965.

F. Hugh Coughlin Young Engineer Award — given to an engineer not over thirty-five years of age who has demonstrated a high degree of capability in his chosen field of engineering, indicating potential for further advancement and leadership as a professional engineer. Established in 1967.

Leo M. Odom Award for Professional Service — given to a registered Professional Engineer member of LES for distinguished service to the engineering profession in Louisiana. Established in 1972.

Executive Secretary

Through its history our organization has been blessed with dedicated member Secretary-Treasurers, who served year after year in spite of the ever-increasing amount of work. In fact, our first sixty-seven administrations were served by only twelve Secretary-Treasurers. But as the society and its programs grew so did the work load, which eventually reached a point where no part-time individual could do justice to it. Though there were many challenges and rewards, there were also routine chores such as preparing an annual membership roster, maintaining addressograph plates and mailing notices, ballots and the publication. When the Louisiana Engineer became the official organ of the State Board of Registration, the publication distribution greatly increased. These time-consuming chores made it difficult for members who made their living practicing engineering to accept the position. Furthermore, the office of Secretary-Treasurer needs continuity. With this in mind, late in 1964 the Board decided to engage a full time Executive Secretary and staff. To allow time to make a good selection the term of the incumbent state-wide administration was extended by six months. So on July 1, 1965, when our reorganization to match the structure of NSPE had been in process for nearly a year, the new administration started its term with a full-time Executive Secretary.

This giant step brought some financial problems, but it also brought new enthusiasm and optimism as had the launching of the society's first publication in 1915 and the retention of a professional consultant for public relations in 1959. To date four full time Executive Secretaries have served the society:

Earl Martin	July 1965 to July 1967
Norman C. Ferachi	August 1967 to July 1969
Gerald A. Simmons	July 1969 to July 1973
R. C. (Doc) Spears	July 1973 to date

Much was expected from the employment of an Executive Secretary and much has been realized. The first three incumbents discharged their duties well and each resigned with commendation and regret. But in 1973, LES hit the jackpot when "Doc" Spears joined our organization. Doc came to us from NSPE headquarters where he had worked with Professional Engineers in Industry and his expertise in NSPE matters is outstanding. To illustrate how much Doc was missed after he left Washington, in 1977 he was presented the Distinguished Service Award by the Professional Engineers in Industry for his "untiring efforts to improve the professional, social and economic well-being of the engineer in private industry." Doc's knowledge, industry and enthusiasm have been readily praised by all who have worked with him and his "Potpourri" column in the Louisiana Engineer is a storehouse of concise information.

One of the more important duties of the Executive Secretary is to observe the State Legislative session and sound the alert when bills are introduced that could be detrimental to the profession. To aid and improve this facet of his work the membership voted in 1967 to relocate the state organization's headquarters at Baton Rouge. This has proved helpful, for the Legislative Committee has had considerable success in promoting legislation beneficial to the profession and opposing bills considered to be injurious. At the same time we have continued to work closely with the State Board of Registration whose domicile remains in New Orleans.

Another field that has expanded since our reorganization is the development of Functional Sections (Practice Divisions) — groups organized to deal with the problems of specific work areas. Today we have five Practice Divisions: Construction, Education, Government, Industry and Private Practice. Many studies, reports, publications and even extension courses have been the products of these Practice Divisions. With the increase in the number of chapters, growth of programs and expansion of services, the Board of Direction also increased its own numbers. In the early forties the Board included nine members: four officers, four directors and the immediate past president. When chapters were developed their incumbent presidents served on the board, and our affiliation with NSPE added a director for liaison with the national body. Finally the chairmen of the Practice Divisions were included. Today the Board of Direction has twenty-three members.

Interprofessional Relations

Our society has always promoted good interprofessional relations with other organizations. Long ago, when our headquarters were located in the historical Presbytere, or perhaps even earlier, joint meetings were held with the local sections of ASCE, ASME, AIEE, and AIChE. Prior to the change in format, every issue of our publication contained a list of officers of various engineering groups, similar to the "Roster of Engineering Societies" that is now published annually. Long before our formal affiliation with NSPE and EJC, we cooperated with these organizations in the interest of professional unity. Early in our history, many LES officers were educators who held membership in the American Society of Engineering Education and believed in the efforts of ECPD to up-grade school curricula and accreditation, so it could be said that our first practice division was education. And recently the LES initiated a Council of Academic Engineering Deans to exchange ideas and provide recommendations for the improvement of our engineering education programs. Since 1951 we have celebrated Engineers' Week annually with other societies. In the fifties we hosted a convention of engineering organizations from both American continents — Union Pan Americana de Ingenieros (UPADI). In 1965 we were hosts to NSPE's Winter Meeting and in 1979 to their Southwestern Regional Meeting. Since 1971 we have held annually several joint conventions with the Mississippi Engineering Society. In 1979 we assisted the Louisiana Engineering Foundation to obtain its charter. It was chiefly through the generosity of Mr. and Mrs. Leo M. Odom that this foundation now owns the building it occupies along with Consulting Engineers of Louisiana and the LES — a great beginning for an engineering center to serve the whole state.

Act of 1980

In the course of our many legislative battles we learned it was easier to defeat a bill than to pass one that we sponsored. So, after the enactment of our general engineering registration law in 1950, we took great care not to jeopardize our gains and no amendments were introduced until 1969. In the next few years, encouraged by the Board of Registration, we succeeded in amending the law five times. One of these amendments established Land Surveying as a separate profession. (Prior to this all Civil Engineers were permitted to practice land surveying.) But in spite of these amendments, by the late seventies it became evident that adverse Louisiana court rulings and Attorney General opinions had not only weakened our law but made it vulnerable to further deterioration. In 1979 the legislative committee of LES and the Consulting Engineers Council of Louisiana, with the advice of the State Board of Registration and input from individual members, prepared a bill to up-grade our registration law. It passed both houses, was signed by Governor Treen and became Act 568 of 1980, replacing the old law with its amendments. Enactment of this law is truly a milestone in our history. Profiting by thirty years of experience in our state and others, it streamlined and modernized the old law and at the same time gave the board more authority to enforce it. Some of the new features of this law include:

1. Definitions for essential words and concepts. Some of these had been omitted in 1950, for an epidemic of state court rulings in the late forties had thrown out registration laws because of their definitions.
2. Regulations of Engineers-in-Training. This clause had to be deleted in committee to insure passage of the 1950 act. It was reinstated and Board rules for such regulations have been given statutory authority.

3. The new act lists nine major branches of engineering and gives the Board authority to register individuals in additional branches.
4. The Board is mandated to adopt and enforce rules of professional conduct and authorized to apply, in its own name, for injunctive relief against violators.
5. Board authority is expanded to take disciplinary action against those whose fitness to practice professional engineering and land surveying has been challenged successfully. It also provides a vehicle by which the Board can discipline persons and firms who have been found in violation of rules of professional conduct.

These are a few of the highlights in our Society's history. To list all the accomplishments and give credit to each of its dedicated and resourceful leaders is of course impossible in these few pages. It must be recognized also that the milestones reached in one administration usually was made possible by the work of preceeding ones. One thing is certain: our founders built well, and those who followed have been worthy successors. From the tiny nucleus of fourteen pioneers, the Louisiana Engineering Society has grown steadily to its present membership of 3,666. Each of us can be justly proud to be a member of the Louisiana Engineering Society.

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Louisiana State Board of Registration for Professional Engineers and Land Surveyors

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HISTORICAL SKETCH

The first LES organizational meeting was held on December 22, 1897, when a committee was appointed to draft the Constitution and Bylaws. On January 8, 1898 these were adopted and an offer by a Notary Public to prepare the Society's Charter was accepted. On February 3, 1898 the Charter was recorded.

The official domicile of the State Society moved to Baton Rouge on December 2, 1967. The first full time Executive Secretary was Earl Martin (7-65 to 8-67), followed by Norman Ferachi (9-67 to 6-69), Gerald Simmons (7-69 to 6-73), and R. C. "Doc" Spears, (8-73- to date).

DATE EACH CHAPTER WAS ESTABLISHED

Baton Rouge	November 20, 1939
Lake Charles	November 3, 1947
Shreveport	July 3, 1949
Monroe	October 3, 1949
Lafayette	October 10, 1950
Alexandria	February 15, 1951
New Orleans	October 12, 1964
Bayou	April 29, 1969

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Chapter Membership Contest

In 1965 the chapter membership contest was started. The prize is a portable rostrum with the winning chapter's name and the date engraved on plaques on its front. A chapter winning the rostrum three years in a row retains permanent possession.

Rules Of The Contest

1. A chapter must reach its quota to qualify as the contest winner.
 2. The chapter with the greatest percentage increase, based on applications and reinstatement requests received by the state LES office through the week ending July 10, will be the winner. Transfers into a chapter or grade changes will not be counted as a part of the quota. Students upon graduating will be counted for a chapter only if the chapter gets them to fill out an application form with updated information and also, if they reside in the chapter's area.
 1. The chapter will be credited with one point in the contest for each new NSPE member.
- Quotas for the membership contest are set at five percent of the present membership plus five percent of the potential membership unless potential is greater than 1000, then the percentage is reduced to three per cent.

PAST CONTEST WINNERS

965-66	LAFAYETTE	223%	
	Shreveport	200%	
	Alexandria	87%	
	Baton Rouge	85%	State Total - 92%
	New Orleans	68%	
	Lake Charles	65%	
	Monroe	0%	
1966-67	SHREVEPORT	267%	
	Baton Rouge	131%	
	Lake Charles	122%	
	Lafayette	114%	State Total - 106%
	Alexandria	111%	
	Monroe	100%	
	New Orleans	60%	
1967-68	BATON ROUGE	395%	
	Lake Charles	390%	
	Monroe	290%	
	Alexandria	190%	State Total - 208%
	Lafayette	119%	
	Shreveport	118%	
	New Orleans	106%	
68-69	ALEXANDRIA	282%	
	Monroe	267%	
	Shreveport	217%	
	Lafayette	180%	State Total - 146%
	Baton Rouge	118%	
	Lake Charles	115%	
	New Orleans	105%	

1969-70	BAYOU	250%	
	Alexandria	169%	
	Lafayette	168%	
	New Orleans	131%	State Total - 117%
	Lake Charles	108%	
	Shreveport	100%	
	Monroe	100%	
	Baton Rouge	71%	

1970-71	BAYOU	250%	
	Alexandria	167%	
	Monroe	153%	
	Shreveport	130%	State Total - 105%
	Lafayette	107%	
	Baton Rouge	84%	
	New Orleans	80%	
	Lake Charles	71%	

1971-72	BAYOU	340%	
	Monroe	237%	
	Lafayette	150%	
	Baton Rouge	131%	State Total - 133%
	Alexandria	114%	
	New Orleans	105%	
	Shreveport	104%	
	Lake Charles	100%	

1972-73	BAYOU	180%	
	Alexandria	140%	
	Monroe	133%	
	Lafayette	120%	State Total - 100%
	Baton Rouge	106%	
	New Orleans	95%	
	Lake Charles	50%	
	Shreveport	25%	

1973-74	BAYOU	310%	
	Lafayette	244%	
	Monroe	147%	
	Shreveport	142%	State Total - 150%
	New Orleans	136%	
	Alexandria	133%	
	Baton Rouge	126%	
	Lake Charles	117%	

974-75	SHREVEPORT	342%	
	Bayou	280%	
	Lake Charles	273%	
	Lafayette	229%	State Total - 192%
	Monroe	211%	
	Baton Rouge	209%	
	Alexandria	133%	
	New Orleans	131%	

1975-76	BAYOU	336%	
	Alexandria	293%	
	Lake Charles	225%	
	New Orleans	224%	State Total - 197%
	Baton Rouge	198%	
	Monroe	125%	
	Lafayette	100%	
	Shreveport	86%	

976-77	BAYOU	369.23%	
	Alexandria	233.33%	
	Lake Charles	233.33%	
	Monroe	185.00%	
	Baton Rouge	167.80%	State Total - 177.55%
	Shreveport	167.65%	
	Lafayette	164.52%	
	New Orleans	151.82%	

1977-78	BAYOU	223.01%	
	Alexandria	215.32%	
	Lake Charles	160.95%	
	Baton Rouge	155.31%	State Total - 140.6%
	Monroe	152.32%	
	Lafayette	142.41%	
	New Orleans	132.24%	
	Shreveport	51.52%	

978-79	BATON ROUGE	284%	
	Lake Charles	230%	
	Monroe	229%	
	Alexandria	167%	State Total - 187%
	Shreveport	158%	
	New Orleans	154%	
	Bayou	153%	
	Lafayette	122%	

1979-80	LAFAYETTE	270%	
	Bayou	250%	
	Baton Rouge	232%	
	Alexandria	227%	State Total - 200%
	Lake Charles	206%	
	New Orleans	178%	
	Shreveport	141%	
	Monroe	123%	

1980-81	BAYOU	407.7	
	Alexandria	308.3	
	New Orleans	228.4	State Total - 212.0
	Baton Rouge	208.7	
	Lafayette	202.4	
	Monroe	152.4	
	Shreveport	150.0	
	Lake Charles	105.0	

1981-82	ALEXANDRIA	216.6%	
	Bayou	188.2%	
	Monroe	188.0%	
	New Orleans	122.8%	State Total - 133.0%
	Lafayette	128.8%	
	Baton Rouge	152.5%	
	Lake Charles	84.0%	
	Shreveport	66.6%	

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LES Membership Retention Contest

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Past Contest Results

1980	SHREVEPORT	98.3%	
	Alexandria	97.3%	
	New Orleans	97.6%	
	Lake Charles	95.8%	
	Lafayette	95.7%	State Total - 95.6%
	Bayou	95.0%	
	Monroe	94.2%	
	Baton Rouge	93.0%	

1981	ALEXANDRIA	98.5%	
	Bayou	97.1%	
	Shreveport	96.8%	
	New Orleans	95.9%	State Total - 95.4%
	Lafayette	94.76%	
	Lake Charles	94.74%	
	Monroe	94.1%	
	Baton Rouge	93.8%	

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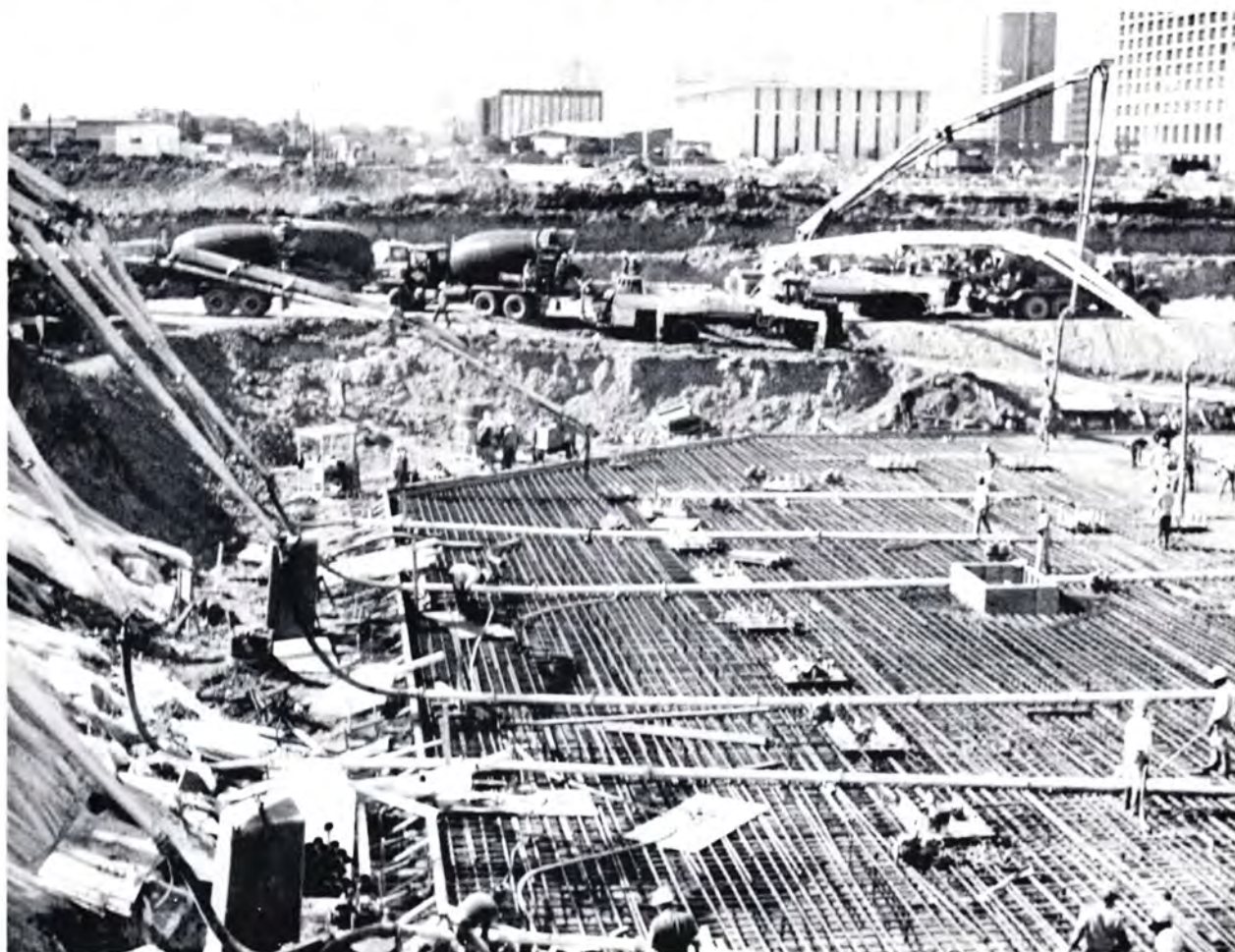
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Louisiana Engineering Society



CONSTITUTION AND BYLAWS

September, 1983

AFFILIATED WITH
NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS



**CONSTITUTION AND BYLAWS
OF THE
LOUISIANA ENGINEERING SOCIETY**

PREAMBLE

The members of the Louisiana Engineering Society, in accordance with their Charter, and for the effectual execution of the design of their institution, do establish and ordain the following Constitution and Bylaws for the government of said Society.

CONSTITUTION

ARTICLE I — OBJECTS

The objects of this Society are the professional improvement of its members, the encouragement of social intercourse among Engineers and men of practical science, and the advancement of Engineering; and for the promotion of these objects, stated meetings of the Society shall be held.

ARTICLE II — MEMBERSHIP

Section 1. The membership of the Society shall consist of Members, Surveyor Members, Associate Members, Student Members, Affiliate Members, Privileged Members, Honorary Members, and Life Members.

Section 2. A Member at the time of admission shall be not less than twenty-six years of age. Registration as a Professional Engineer in any state, territory, possession or district of the United States of America shall be required for qualification as a candidate for Member Grade.

Section 3. A Surveyor Member at the time of admission shall be not less than twenty-six years of age. Registration as a Land Surveyor in any state, territory, possession or district of the United States of America shall be required for qualification as a candidate for Surveyor Member Grade.

Section 4. An Associate Member shall be defined as a person of high moral character who is:

- (a) A certified Engineer-In-Training.
- (b) A certified Land Surveyor-In-Training; or
- (c) A graduate engineer or land surveyor actively pursuing an engineering or surveying career or engaged in postgraduate engineering study.

An Associate Member shall be permitted to remain in this classification no longer than twelve years and shall advance to the Member or Surveyor Member grade as soon as eligible by professional registration.

Section 5. A Student Member shall be an undergraduate or graduate matriculate of a school of engineering. Upon graduation the Student Member shall, if otherwise qualified, be transferred to the grade of Associate Member without application.

Section 6. An Affiliate Member shall be an Engineer or a person who, by scientific acquirements or practical experience has attained a position in his special pursuit qualifying him to cooperate with Engineers in the advancement of Professional knowledge and practice but who is not eligible to hold membership in another grade.

Section 7. Honorary Members shall be chosen only from persons of acknowledged eminence in engineering or the sciences related thereto and shall be exempt from the payment of dues.

Section 8. A member who has paid dues for a period of thirty years, other than as a Privileged or Student Member, shall by virtue of that fact become a Life Member and shall be exempt from payment of further dues.

Section 9. Any member may become a Privileged Member by fulfillment of all the following conditions: He shall have retired from active practice, shall have not less than 5 years membership, and shall make written request for this grade membership. He will not need to furnish references or a Sponsor. His privileges shall be the same as those he had before becoming a Privileged Member. Any ex-member meeting these requirements may be reinstated in this grade upon written request, including an updated application form, without professional experience record references, or Sponsor and with the payment of pro-rata dues.

Section 10. Introductory Membership—any person not already a member of the Society, becoming registered in Louisiana as a Professional Engineer, Land Surveyor, or Engineer-In-Training may become a member in the appropriate grade upon his completing an application form and without the payment of dues for the remainder of the first year of registration.

ARTICLE III — OFFICERS AND DIRECTORS

Section 1. The Officers of the Society shall be a President, a First Vice-President, a Second Vice-President, a Secretary-Treasurer, and one or more National Directors. These officers, together with four Directors elected from the membership of the Society, the immediate past President, the Presiding Officer of each local Chapter, and the Chairmen of the various Practice Divisions, shall be trustees and shall constitute the Board of Direction in which the government of the Society shall be vested. Chapter Presidents may appoint their President-Elect or First Vice-President and Chairman of Practice Divisions may appoint their Vice Chairman as voting representatives to any Board of Direction meeting.

Section 2. The Nominating Committee shall consist of three representatives of the Board of Direction and each current Chapter President, or his appointed delegate.

The Board of Direction shall select and the President shall appoint not later than three months before the end of the Administrative Year, three Past Presidents of the Society as its representatives to the Nominating Committee, one of which will act as Chairman of the Nominating Committee. Each representative of the Board of Direction shall have one vote; each Chapter President, or his appointed delegate, shall have one vote for every two hundred Chapter members, or part thereof, with Chapter membership to be determined as of the close of the previous Administrative Year. The nominees of the Committee shall be approved by a majority of those votes cast. A quorum of the Committee shall be 75% of the possible total votes.

The Nominating Committee shall nominate the Officers, except President, and Directors of the Society for the ensuing year. The First Vice-President shall be considered President-Elect and shall automatically become President in the year following his term as First Vice-President. Should the First Vice-President (President-Elect) be unable to assume the presidency, the Nominating Committee shall nominate a candidate for President.

The Chairman of the Nominating Committee shall report the names of the nominees to the Board of Direction not less than two (2) months before the end of the Administrative Year.

At any time prior to forty-five (45) days before the end of the Administrative Year, any twenty-five (25) or more Members may send to the Secretary-Treasurer additional nominations for any elective Office for the ensuing year, signed by such Members.

If any person nominated shall be found by the Board of Direction to be ineligible for the Office for which nominated, or should a nominee decline such nomination, his name shall be withdrawn. The Board of Direction may fill any vacancies that may occur in the list of nominees up to the time the ballots are sent out.

The list of nominees shall be submitted to the membership by letter ballot at least thirty days before the end of the Administrative Year.

Section 3. The Officers and Directors shall be elected from the membership of the Society by a plurality of the votes cast by the letter ballot, and shall hold office until their successors are qualified. The President shall be ineligible to succeed himself for that office. If only one National Director is permitted, he shall be elected from among the Past Officers and Board members, and shall be a member of the National Society of Professional Engineers. He shall be elected for a two year term and may succeed himself without limit. If two or more National Directors are permitted, the current president of the Society shall serve in one of those positions with a one year term, and each of the other National Directors shall be elected and shall serve in the same manner as specified above for only one. Directors shall be elected for a term of two years.

Section 4. In the case of a vacancy in the Office of President, occasioned by resignation or otherwise, the First Vice-President shall discharge the duties of the President for the remainder of the elective term. He shall continue as President for the following year.

In the case of a vacancy in the Office of the First Vice-President, occasioned by resignation or otherwise, the Second Vice-President shall discharge the duties of the First Vice-President for the remainder of the elective term. However, he shall not be considered President-Elect and not automatically become First Vice-President in the ensuing year.

In the case of a vacancy in the Office of Second Vice-President, occasioned by resignation or otherwise, this position shall not be filled for the remainder of the elective year.

In case of a vacancy in the Office of Secretary-Treasurer, occasioned by resignation or otherwise, this position shall be filled by the Board of Direction for the remainder of the elective term.

In the case of vacancy in the Office of Director or National Director, occasioned by resignation or otherwise, the Board of Direction shall appoint a member to serve as Director or National Director until the next general election. The Nominating Committee shall nominate a member to complete the remainder of the two-year elective term only if the vacancy occurs during the first year of the elective term.

ARTICLE IV — MANAGEMENT

Section 1. The Board of Direction shall be responsible for the general administration of the affairs and property of the Society. It shall outline and direct the duties and activities of the several Officers of the Society. It shall have the accounts of the Secretary-Treasurer audited at the end of the Administrative Year. It shall present a written report at the Annual Meeting outlining the activities of the Society during the past year. Appended thereto shall be the annual report of the Secretary-Treasurer and other pertinent reports of Officers and Committees.

ARTICLE V — MEETINGS

Section 1. The Board of Direction shall be domiciled and maintain its Office in the City of Baton Rouge and shall maintain its records at said Office and shall hold its regular meetings there, unless in the discretion of the President, it is necessary or convenient to meet elsewhere. The Board shall meet not less than four (4) times a year.

Section 2. Meetings of the Society shall be held at such times and in such places as prescribed by the Bylaws, but the Society shall hold at least one general business meeting annually, termed the Annual Meeting, for the installation of Officers and for the hearing of annual reports.

ARTICLE VI — DUES

Section 1.

(a) The amount of annual dues shall be determined by the Board of Direction as provided in the following paragraphs and as set forth in the Bylaws.

(b) Dues shall be established annually for succeeding years, commencing January 1, 1978, provided, however, that the amount of any increase in dues shall not exceed an accumulative 5% per annum for each member classification and, further, provided that the maximum amount for any member classification shall not exceed fifty dollars except by constitutional amendment.

(c) In addition to the above, dues of the National Society of Professional Engineers (NSPE) will be billed when applicable and collections will be forwarded to national headquarters. Should disassociation of the Society with NSPE occur, then the collection of NSPE dues will cease.

Section 2. Honorary and Life Members, if qualified, may become, or remain, Members of the National Society of Professional Engineers by remitting national dues of that organization.

Section 3. The Annual Dues for the current Fiscal Year shall become due on the first day of January and shall be paid in advance. A statement of the amount shall be mailed by the Secretary-Treasurer to each member at least thirty days prior to the due date. A newly elected member, reinstated member, or a member transferred to another grade having higher dues; shall be charged with pro-rata dues from the first of the month following his date of membership through December. Student members shall pay the full years dues regardless of date of membership. Newly registered Professional Engineers, Land Surveyors, or Engineer-In-Training members accepted under the Introductory Membership category shall not pay dues for the balance of the first year of their registration, unless they are already a member of the Society.

ARTICLE VII — ADMISSIONS TO MEMBERSHIP OR TRANSFER TO ANOTHER GRADE

Section 1. An applicant for admission to membership or for transfer to another grade of membership in the Society shall make a statement in writing of his educational training and professional experience, unless specifically waived elsewhere in this Article, and shall be in the form prescribed by the Board of Direction.

Any grade member who is, or becomes, a registered Professional Engineer needs only to present proof of his current registration with his application, and without references, he can be transferred to the Member grade. This waiver of references shall also apply to any new applicant who at the time is a registered Engineer in any state, a registered Land Surveyor, or an Engineer-In-Training in Louisiana; in this case the applicant shall submit only the name of a member who will become his Sponsor.

All other applicants for membership, or transfer to another grade, shall furnish the names of at least three members of the Society to whom he is known personally, except in the case of a new state resident, who is not known personally by three members. In the later case the applicant shall furnish the names of at least three Professional Engineers in other States, or fellow engineering employees who know him personally. Each of these references shall be requested by the Admissions Committee to advise them of his personal knowledge of the applicants character, professional ability and the grade of membership, if any, for which he deems the applicant to be qualified. The Admissions Committee shall then review the application, determine the proper membership grade and fix the date of membership, or reject the application.

The State Admissions Committee shall review all grades of membership as determined by the various Chapter Admissions Committees. Should the State Admissions Committee decide that a membership grade has been determined incorrectly by the Chapter Admissions Committee it shall notify, in writing, both the new member and his Chapter Admissions Committee, setting forth its reasons and asking the new member if he will accept the grade recommended by the State Admissions Committee. A new member who refuses to accept this recommended grade will have all dues, that he may have paid, refunded and there shall be no prejudice with regards to his reapplying for membership at a later date. Should both the new member and his Chapter Admissions Committee not agree with the State Admissions Committee then they may present the new members's application file to the Board who shall decide which grade of membership is correct.

Admissions Committee acceptance of an applicant as a member shall be contingent upon the applicant receiving not more than two negative votes from the general membership, or discovery of an obvious misstatement of pertinent information on his application within six months of his date of membership. In these cases the facts shall be presented to the Board which shall have the sole power of revocation of membership.

The name of the new member, his residence location and Chapter shall be published in the next possible issue of the LOUISIANA ENGINEER, and if more than two members write a valid reason to the Board of Direction not later than the month following the publication month, then the new member's membership shall be declared revoked. No record of such action shall be entered in the minutes but the new member shall be so notified after Board action, and any dues he may have paid

shall be refunded in full. A new member whose membership has been revoked by the Board may have at least eight members request in writing, along with their reason, that the Board consider republishing his name. If such reasons are deemed good and sufficient, the Board shall order the republishing of his name and it shall be governed by the same rules as the first. Should the new member again receive more than two negative votes the Board shall again declare his membership revoked and no further action may be taken on republishing his name. If two or less negative votes are received then the Board shall acknowledge that the new member's date of membership shall be from the date as originally fixed by the Admissions Committee.

At the next Board meeting following one calendar month after the month of publication of the new members name, the Board shall make formal acknowledgement of all new members by entering their names and date of membership in the minutes, except those who received more than two negative votes with good reasons.

Dues for the remainder of the year shall become payable as of the date of membership. If payment is not made within three months, the Board may declare the membership revoked and it shall be so noted in the Board minutes.

Section 2. Any name submitted for Honorary Membership shall be endorsed by at least ten members of the Society in good standing. All living Past Presidents who are members of the Society shall constitute the Honorary Membership Committee. The President of the Society shall be Chairman of this committee without vote. Should the person proposed for election to the grade of Honorary Member be favorably recommended by 80% of the entire Committee, action thereon shall be taken by the Board of Direction. Election shall be only by the affirmative votes of 75% of the members of the whole Board. The Honorary Membership of any person so elected shall be cancelled if his acceptance is not received by the Board within 60 days after the mailing of the notification of election to him.

The voting of the members of the Honorary Membership Committee shall be sealed ballots which shall be delivered unopened at a duly assembled meeting of the Board of Direction by the Chairman of the Committee only after he shall have received replies totaling at least 80% of the Committee membership.

ARTICLE VIII — RESIGNATION OF MEMBERSHIP

Any member whose dues have been fully paid for the current year may request resignation from the Society by notifying the Secretary-Treasurer in writing. Any person resigning his membership may be reinstated by the Admissions Committee upon his submitting a new application.

The Board of Direction may, at its discretion, accept the resignation of any member who states in writing or by personal appearance that his financial status prevents him from liquidating his current year's obligation to the Society.

ARTICLE IX — FORFEITURE OF MEMBERSHIP

Ten months after January 1st the Secretary-Treasurer shall notify in writing any member whose dues are in arrears for the current year, except as provided for in Article VIII, that unless his dues are fully paid before the end of the year his membership in the Society shall cease. The names of members dropped from the rolls for nonpayment of dues shall be published in the LOUISIANA ENGINEER.

The Board of Direction may, at its discretion, reinstate any former member dropped from the rolls for nonpayment of dues upon payment of one year's dues for reinstatement plus the dues for the remainder of the current year, or if the former members wishes to forfeit in writing his prior years membership in being counted towards his qualifying for Life Member then he shall be exempted from the payment of one year's dues for reinstatement, but will pay dues for the remainder of the current year.

ARTICLE X — DISCIPLINE OF MEMBERS

Section 1. The President, with the approval of the Board of Direction, shall appoint from the members of the Society a Committee on Ethics and Professional Conduct, hereinafter referred to as the Committee. The committee is composed of a chairman, vice chairman, Board Sponsor, and two engineers from each chapter nominated by the chapter president. Each member's term of office is the administrative year of the Society. Committee action shall require the concurrence of a majority of the committee.

It shall be the duty of this Committee to consider reported instances involving a breach of the LES Code of Ethics by any member of the Society and to report its findings to the Board of Direction in accordance with Section 2 of this Article. The Committee shall have such other functions and duties as may be assigned to it by the Board of Direction. The Board of Direction shall refer to said Committee all complaints involving alleged breach of the LES Code of Ethics which may come to its attention.

Section 2. The Committee shall, upon receiving a written complaint, or acting upon its own motion, of an apparent or alleged breach of the LES Code of Ethics, proceed as follows:

- A. The Committee shall, either from examination of the face of the complaint, or after developing sufficient background information from published records or from the complainant:
 - (1) determine that the complaint or instance is trivial, or does not involve a breach of the LES Code of Ethics, and so report to the Board of Direction, recommending that no further action be taken.
 - (a) In the event the Board concurs, the matter will be dropped, and the complainant filing the charges so notified, in writing, by the president, of the Board's decision.
 - (b) In the event the Board does not concur, and determines the complaint to be non-trivial, the matter will be further considered as provided in Section 2B of this Article.
 - (2) determine that the complaint is non-trivial, and so report to the Board of Direction, recommending that the matter be further considered, as hereinafter provided.
 - (a) In the event the Board concurs, the Committee shall proceed as outlined in Section 2B of this Article.
 - (b) In the event the Board does not concur, and determines that the complaint is trivial, and that no further action be taken the matter shall be dropped and the complainant advised, in writing, by the president, of the Board's decision.
- B. The Committee shall investigate the complaint or instance in detail, collecting all available information. The accused shall be advised, by certified mail, return receipt requested, of the substance of the complaint; and shall be requested to furnish his answer, or defense, in writing.
 - (1) After completing its investigation, and in the absence of a request from the accused for a hearing, the Committee shall proceed as outlined in Section 2C of this Article.
 - (2) In the event the accused requests a hearing, the Committee shall yield responsibility for action to the Board, as prescribed in Section 2D of this Article.
- C. The Committee shall render its report to the Board of Direction within sixty days of the date of the determination of non-triviality, provided, however, that in the event that the investigation cannot be completed within the same period, the Committee shall render an interim report within sixty days advising the Board of the status of the investigation. The Board shall review and consider in detail the documents and recommendations of the Committee, and proceed in accordance with Section 3 of this Article.

- D. The accused shall have the right to a hearing, but only if such hearing is requested in writing and addressed to the Board of Direction, within two weeks after receipt of notification to the accused of the complaint. In the event of such a request, the Board of Direction, at its next regular meeting, shall appoint a Special Committee, consisting of five members, at least one member of which (the Chairman) shall be a member of the Board of Direction. This Committee acting for the Board as a whole shall conduct the hearing under such rules or procedure as is fitting and proper in such instances. In any event, a written report of any such hearing, together with all documents, including the complaint, the answer, all exhibits, and the recommendations of the Special Committee shall be submitted to the Board of Direction for review and consideration. The Board shall then proceed in accordance with Section 3 of this Article.

Section 3. Upon receiving the report of the Committee, or the Special Committee, the Board shall take action thereon as follows:

- A. The Board shall go into executive session to consider the evidence and reach a decision. A two-thirds vote of the Board members present and voting shall be required for a finding sustaining the charges. Upon a finding sustaining the charges, in whole, or in part, the Board shall assess the penalty to be imposed by a two-thirds vote of the Board members present, except in the case of action to expel a member of the Society, and/or public disclosure, such action shall be taken only upon the affirmative vote of 75% of the entire membership of the Board of Direction.
- B. The Board may, if it deems it advisable, return the matter to the Committee or Special Committee, with the direction that further investigation or determination of facts be made, and reported to the Board for further consideration.

Section 4. A finding by the Board which sustains the charges against a member may involve the assessment of one or more of the following penalties deemed appropriate by the Board, singularly, in succession, or in combination:

- A. Reprimand with request to discontinue the practice which generated the complaint.
- B. Public censure in the official publication of the Society.
- C. Referral to other jurisdictional authority as deemed appropriate, i.e. (Louisiana State Board of Registration for Professional Engineers and Land Surveyors, a district attorney, or others).
- D. Suspension for a stated period of time.
- E. Expulsion from membership in the Society.

The accused shall be notified, in writing by certified mail, return receipt requested, of the action of the Board.

Section 5. Should an accused member of the Society submit his resignation after charges of unethical conduct have been filed against him, the Board may proceed as follows:

- A. Accept the resignation without further comment.
- B. Accept the resignation with prejudice and may, if the Board so determines, by three-fourths vote of the full membership of the Board, publish such action.
- C. Refuse to accept the resignation, and proceed in accordance with the procedures as hereinbefore described, taking such action as warranted and approved by the Board in accordance with Section 4 of this Article.

Section 6. Any member disciplined as hereinabove provided shall have the right of appeal from any decision to the membership at large. Said appeal shall be by written ballot. The accused in such instance shall, at his own expense, furnish to the Secretary of the Society a brief or statement of his case, providing a sufficient number of copies so that one may be sent to each voting member of the Society in good standing and shall also pay one-half the cost of postage. The Board or Committee, at the Board's direction, shall prepare a written brief or statement of the position of the Board, which shall also be sent to each voting member, together with a form ballot and a return envelope. The right of appeal herein provided shall be exercised within thirty days after date of receipt of written

notification of the disciplinary action assessed. In the event of such appeal the Secretary shall, as promptly as possible, forward the two briefs, the ballot and the return envelope to each member of the Society. All ballots received by the Secretary within sixty days after the date of mailing same shall be counted and unless a majority of the said ballots so received are contrary to the action of the Board of Direction, the appeal shall be dismissed. No ballots received after the sixteenth day after mailing shall be counted or considered.

Section 7. Any member of the Board, upon whom a charge of breach of LES Code of Ethics has been filed, shall absent himself from the executive sessions of the Board and shall not participate in other votes in connection therewith.

Section 8. The complainant filing the charges shall be notified, in writing, by the president, of the action of the Board.

Section 9. The Board of Direction shall have the power and authority to adopt further rules and regulations for the effective administration of this Article X, not inconsistent with the provisions thereof.

ARTICLE XI — PRIVILEGES

All the rights of the Society shall be common to all grades of membership except those of voting, which shall be confined to Members, Surveyor Members, (Privileged Member as prescribed by Article II), Life Members, Honorary Members and Associate Members, and that of holding Office, which shall be confined to Registered Professional Engineers or Engineers-In-Training meeting the qualifications noted below:

The Board of Direction and 1st Vice Presidents of the individual Chapters and the Vice Chairmen of the individual Practice Divisions, shall be either Members, Surveyor Members, Life Members or Honorary Members of LES and shall hold an appropriate grade membership in the National Society of Professional Engineers.

Chapter Vice Presidents (other than 1st Vice President) and Secretary-Treasurers, and Secretary-Treasurers of Practice Divisions shall be either Members, Surveyor Members, Life Members, Honorary Members, or Associate Members of LES and shall hold an appropriate grade of membership in the National Society of Professional Engineers.

ARTICLE XII — MOTIONS OR RESOLUTIONS

Section 1. Motions or resolutions which provide for the expression of the Society's views may be adopted by a two-thirds vote of the Board members present and voting at any meeting of the Board of Direction; provided due notification thereof, including the motion or resolution, has been sent to each member of the Board of Direction with the notice announcing the date of the meeting; provided further that the rule requiring such notification may be suspended by unanimous consent of Board members present at any meeting.

ARTICLE XIII — LOCAL AND STUDENT CHAPTERS

Section 1. The Society shall encourage the establishment of local Chapters composed of members of all grades, in several localities of the State as prescribed by the Bylaws, the purpose of which shall be the furtherance of the objectives of the Society. The local Chapter shall become operative as soon as the proposed Bylaws of that local Chapter shall have been approved by the Board of Direction.

Section 2. Each local Chapter shall conduct its affairs in conformity with the Constitution of the Society and rules established by the Board of Direction, except that Officers and Directors of the local Chapter shall be elected as set forth in its Bylaws. Any amendment to the Bylaws of a local Chapter must be approved by the Board of Direction before becoming effective. A local Chapter shall not assume to speak for the Society unless authorized by the Board of Direction.

Section 3. The Board of Direction of the Society may, after due consideration, revoke the certificate of any local Chapter if, in its judgment, the local Chapter has not complied with the provisions of these regulations.

Section 4. Student Chapters composed of undergraduate and graduate matriculates of established universities, colleges, or junior colleges of approved standing in the State of Louisiana, may be established upon approval by the Board of Direction. Any Student Chapter may be terminated by the Board of Direction for reasons deemed sufficient for such action. The functions of the Student Chapters shall be encouragement of their members by providing orientation in the field of engineering and in the advancement of the engineering profession. Student Chapters shall not speak for the Society.

ARTICLE XIV — AMENDMENTS

Section 1. The Constitution of the Society may be amended as herein provided.

A proposed amendment must be submitted to the Secretary-Treasurer of the Society in a written petition signed by at least sixty (60) or more voting members in good standing, with at least fifteen (15) from each of at least 50% of the different chapters of the Society. The amendment shall be sent by letter or official publication of the Society to all members of the Society with the notice of the next meeting, at which meeting the amendment shall be in order for discussion. The amendment may be amended in any manner pertinent to the original amendment by a majority vote of the members present and voting. If so amended, it shall be submitted to the membership of the Society and voted upon by letter ballot in its amended form; if not so amended, it shall be voted upon by letter ballot in its original form.

If, after discussion of a proposed amendment, the members present shall so decide by a majority vote it may refer the amendment to a Committee, to be appointed by the President of the Society, for further consideration. This Committee shall report at the next regular meeting whereupon the amendment shall be acted upon as hereinbefore provided.

The proposed amendment in its original or amended form may, at the written request of a majority of those signing the original petition, be withdrawn at any time prior to its submission to the membership for letter ballot.

An affirmative vote of two-thirds of all ballots cast shall be necessary for the adoption of any amendment. Amendments shall take effect immediately upon adoption unless specifically provided otherwise.

Section 2. At any meeting of the Board of Direction, a quorum being present, the Board of Direction, by a two-thirds vote, may amend the Bylaws in conformity with the Constitution provided that a written notice of such proposed amendment shall have been given at a previous meeting of the Board of Direction, and provided further that the Secretary-Treasurer shall have mailed a copy of such proposed amendment to each member of the Board of Direction at least thirty days in advance of the meeting at which action thereon is to be taken.

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BYLAWS

BYLAW 1 — FISCAL AND ADMINISTRATIVE YEAR

- (a) The Fiscal Year of the Society shall be from July 1 through June 30.
- (b) The Administrative Year of the Society shall be from July 1 through June 30.

BYLAW 2 — MEETINGS OF THE BOARD OF DIRECTION

(a) The Board of Direction shall be domiciled and maintain its Office in the City of Baton Rouge and shall maintain its records at said Office and shall hold its regular meetings there, unless in the discretion of the President, it is necessary or convenient to meet elsewhere. The Board shall meet not less than four (4) times a year.

(b) Special meetings of the Board may be called by the President, or by a majority of the members of the Board. The purpose of such special meeting shall be set forth in the notice to the members of the Board and no business other than that for which the meeting was called shall be transacted, except by unanimous consent of Board members present.

- (c) Nine (9) members of the Board shall constitute a quorum for the transaction of business.

BYLAW 3 — MEETINGS OF THE SOCIETY

(a) The Society shall convene in Annual Meeting once a year on a date and at a place to be determined by the Board, and, in addition, shall hold regular meetings at such times and in such places as determined by the Board.

(b) A special meeting of the Society may be called at any time by the President when he deems it expedient, and he shall be bound to do so when instructed by the Board of Direction, or upon receipt of a petition in writing signed by at least 5% of the voting members in good standing. Written notice of time, place and purpose of such a meeting shall be mailed to each member at least seven (7) days prior to the date fixed therefor. No business shall be transacted except that stated in the notice.

(c) Twenty-five (25) voting members in good standing shall constitute a quorum for the transaction of business.

BYLAW 4 — NOMINATION AND ELECTION OF OFFICERS

(a) The Constitution provides for the selection of nominees and the submittal of the list of nominees to the membership by letter ballot at least thirty days before the end of the Administrative Year.

(b) The Secretary-Treasurer shall mail the letter ballot to each voting member in good standing. This ballot shall list the names of all persons nominated for each Office, and shall provide a blank space so that voters may write in another name for each Office should they so desire. The ballot shall contain only the names of the candidates for the office for which they have been duly nominated, whether by nomination by the Nominations Committee or by Petition. Candidates nominated by the Nominations Committee shall be so indicated on the ballot by placing an asterisk after their name with a footnote appearing thusly:
*Nominations Committee Candidate.

(c) This list, to count as a vote, shall be returned to the Secretary-Treasurer at least four days before the end of the Administrative Year, and shall be enclosed in two envelopes, the inner one containing the ballot being blank, the outer one having upon it the signature of the member voting. The nominees upon the list whose names are not scratched shall be the ones voted for. In case of a tie, the members present at the Annual Meeting shall elect the Officer.

(d) The Secretary-Treasurer shall include with the ballot an instruction sheet for completing the ballot in accordance with Bylaw 4(c) and applicable parts of Bylaw 12. Included with the instruction sheet or continued thereon shall be a biography and picture (if available) of each candidate, whether nominated by the Nominations Committee or by Petition. The biography shall contain the following information in the order listed: (1) State Offices and Committees served; (2) Chapter Offices and Committees served; (3) Registration status and year registered; (4) Service in other Engineering Societies; (5) Civic or community service; and (6) Other Personal Information as desired by Candidate.

BYLAW 5 — MANAGEMENT

(a) The Board of Direction shall manage the affairs of the Society in conformity to the provision of the Constitution. It shall direct the investment and care of the funds of the Society; order all ordinary or current expenditures of funds; act upon all applications for membership; approve the composition of all Standing Committees; take measures to advance the interests of the Society; pass on all papers submitted with reference to their fitness for presentation to the Society and for publication; and generally direct its business. To perform these duties, the Board shall be authorized to appoint Committees of its members, and to delegate to them such of its powers as it deems fitting and to employ an Executive Director and such other staff as may be required and determine their remuneration.

(b) The President shall have general supervision of the affairs of the Society. He shall preside at meetings of the Society and of the Board of Direction, and shall be ex-officio member of all Committees. He shall select, and with the approval of the Board of Direction, appoint the members of Standing Committees to serve during his tenure of office. He may appoint Special Committees at his discretion. He shall deliver an address at the Annual Meeting. In the absence of the President, the First Vice-President shall discharge the duties of the President. In the absence of the President and the First Vice-President, the Second Vice-President shall discharge the duties of the President.

(c) The National Director, or National Directors, shall serve on the Board of Directors of the National Society of Professional Engineers as described in Article VII of the Constitution of that organization.

(d) The Secretary-Treasurer, with the approval of the Board of Direction, shall draw checks on the Society's depository, checks to be signed by two persons from a list to be designated by the Board of Direction, which shall include the Executive Director. Surety for the protection of the funds and securities of the Society in such amount as the Board shall determine and the premium thereon shall be paid out of funds of the Society. He shall be exempt from annual dues during his term of Office.

Written notice of each meeting shall be sent by the Secretary-Treasurer to each member at least one week prior to the date set for the meeting.

Newly accepted members and members transferred from one grade to another shall be promptly notified in writing by the Secretary-Treasurer or the Executive Director.

(e) The Executive Director shall be a paid employee, selected by a committee comprising the President, Vice-Presidents, and Secretary-Treasurer, who shall recommend him to the Board of Direction for approval, and shall manage the Office of the Society. He shall maintain all records of the Society in its designated Office in Baton Rouge. The Executive Director shall employ such secretarial help as authorized by the Board. The Executive Director shall be responsible for the publication and mailing of the Society magazine. He shall work with the Publications Subcommittee and publications consultant in all phases of the management of the publication. The Executive Director when designated by the Board of Direction will represent the Society in meetings with public bodies and boards, legislative committees, as required to administer the affairs of the Society. He shall service the local chapters in their membership programs. The Executive Director shall report to the President and the Board of Direction.

BYLAW 6 — COMMITTEES

Within one month after the annual meeting and with the approval of the Board of Direction, the President shall appoint at his discretion and from recommendations furnished by the local Chapter Presidents and Practice Division Chairmen the following Standing Committees to serve during his current administrative year. Vice-Chairmen of these Committees shall be selected by the President-Elect with the intent that this member will advance to Committee Chairman the succeeding year:

- (a) Membership
- (b) Ethics and Professional Conduct
- (c) Public Relations
- (d) Legislative
- (e) Engineering Education
 - 1. Vocational Guidance Sub Committee
 - 2. Engineering Technicians Sub Committee
- (f) Honors and Awards
- (g) Inter-Society Relations
- (h) Young Engineers

Additional Standing Committees composed of members shall be appointed by the President. These shall include:

- (i) Constitution and Bylaws
- (j) Finance
- (k) Liaison with State Board of Registration
- (l) Liaison with Louisiana Board of Regents
- (m) State Admissions Committee
- (n) Annual Meeting
- (o) Scholarship
- (p) Appointment of Tellers Committee

Other Special Committees shall be appointed by him at his discretion.

(a) The Membership Committee shall see that proper contacts are made to secure eligible members for the Society throughout the State. It shall furnish prospective members with application forms and assist in the preparation of applications when so requested.

(b) The Ethics and Professional Conduct Committee shall investigate and report to the Board of Direction all instances of unprofessional conduct and/or breach of the Code of Ethics by any member of the Society. The Committee's operations shall be handled by the procedure set forth in Article X of the Constitution.

(c) The Public Relations Committee shall deal with matters pertaining to publicity not only for the Society but for the Professional Engineer in general through various publications, television, radio and other media. It shall handle the Society's interest in civic, public or industrial affairs. It shall work in conjunction with the Public Relations Committee of the National Society of Professional Engineers. A Publications Subcommittee on this Committee shall supervise in a general way the publications of the Society. The Committee shall coordinate the activities of National Engineers' Week between the local Chapters and the State Office.

(d) The Legislative Committee shall deal with matters pertaining to federal, state or local laws affecting Professional Engineers or engineering. It shall keep itself and the Board informed of such pending legislation and upon request of the Board take necessary steps to introduce and promote advantageous legislation and to oppose deleterious legislation. When the necessity develops, the Board may appoint Special Committees or assign individuals to supplement the work of this Committee. It shall work in conjunction with the Legislative Committee of the National Society of Professional Engineers.

(e) The Engineering Education Committee shall endeavor to encourage the teaching and promulgation of professional concepts in the engineering schools of Louisiana by conferring and cooperating with these institutions; seek continued improvement in the education of Engineers; and endeavor to encourage professionalism in the engineering educational institutions.

1. The Vocational Guidance Sub Committee shall develop and carry out a program designed to encourage qualified students to consider a career in engineering. The Committee shall work with the various career counselors in the schools to bring before them this information in an attempt to increase the enrollments in engineering colleges. The Committee shall encourage the formation of the Junior Engineer Technical Societies in high schools throughout the state.
2. The Engineering Technicians Sub Committee shall develop and implement recommended programs for the utilization and promotion of the engineering technician as a vital member of the engineering team.

(f) The Honors and Awards Committee shall consist of the two immediate Past Presidents of the Society as Chairman and Vice-Chairman, and the immediate Past President and the current President of the local Chapters as members.

The Committee shall review the nominations received for the various Society awards and shall select from these nominations the person to be recommended to the Board of Direction to receive each award. The awards are to be presented at a general meeting of the Society so designated by the Board of Direction.

(g) The Inter-Society Relations Committee shall act as liaison between the various professional and technical societies, as well as councils and associations, to establish common goals and aims of the societies and work collectively with them in securing these goals.

(h) The Young Engineers Committee shall develop and carry out programs designed to introduce young, practicing engineers and engineering students to the engineering profession. The committee shall work within the Chapters to provide programs designed to meet the special needs of their younger members. The Committee shall support Student Chapters through representation on their Boards of Sponsors and work within the colleges to introduce professionalism.

Standing Committees appointed by the President shall have the following assignments:

(i) The Constitution and Bylaws Committee shall from time to time study and review the Constitution and Bylaws of the Society and call attention to the Board of Direction those passages requiring clarification and rewriting.

(j) The Finance Committee shall be composed of three members of the Board of Direction, one member being the Secretary-Treasurer. It shall prepare a budget for the current year not later than one month after the Annual Meeting. The President of the Society shall serve as ex-officio member. It shall approve budgets prepared by all other Standing or Appointed Committees.

(k) The Liaison with State Board of Registration Committee shall meet with the Board of Registration at regular times during the year to maintain good relations between the two groups and to work for the preservation of the state registration laws and its administration.

(l) The Liaison with the Board of Regents committee shall meet with the Board of Regents at regular times during the year to bring about coordination between the Louisiana Engineering Society and the Board of Regents in all matters concerning engineering education.

(m) The State Admissions Committee and those Chapter Admissions Committees, for which provisions are made in the Chapter's approved Bylaws, shall each be composed of three members of the Society whose names shall not be divulged to the membership. The Chapter Admissions Committee will normally handle applicants where their references are local, but shall not be limited to these cases. The State Admissions Committee shall handle applicants for those Chapters without a functioning Admissions Committee, for any reason, and normally, those applicants with out-of-state references. Either the Chapter or State Admissions Committee shall review, obtain references opinions, determine membership grade and fix the date of membership on all applications.

The State Admissions Committee shall review the grades of membership as determined by the Chapters Admissions Committees and if it believes that the membership grade is in error then it shall proceed in accordance with Article VII.

Procedures for the operation of the Chapter and State Admissions Committees shall be set forth in writing by the Board of Direction and shall be followed by these Admissions Committees.

(n) The Annual Meeting shall be arranged and conducted by a special General Committee under the direction of a General Chairman who shall be appointed for this purpose by the President with the approval of the Board of Direction. The President of the Society shall serve as Chairman Ex-Officio of all general sessions of the Society during the meeting. The Secretary-Treasurer of the Society shall serve this Committee also as Secretary-Treasurer. All Special Committees required to satisfactorily carry on the activities for the Annual Meeting shall be appointed by the General Chairman, and the Chairman of each Special Committee shall be a member of the General Committee. A special Finance Committee shall prepare a budget covering the proposed expenditures of the Annual Meeting, subject to the approval of the Board of Direction, and render a final report of the actual cost within thirty days after the close of the meeting.

(o) The Scholarship Committee shall administer the LES-NSPE scholarship program. It shall encourage well qualified high school students with interests in engineering to apply for these scholarships. The committee shall work with the various career counselors in the schools to bring before them information on these scholarships.

(p) A Tellers Committee shall be appointed to count the ballots cast for Officers and Directors. Each Chapter President shall appoint one member to serve on the Tellers Committee and each teller shall have one vote. No member of the Tellers Committee may be a candidate on the ballot being counted nor may any teller be a member of the State Board of Direction. A quorum shall consist of three tellers and they shall meet on the third day before the close of the Administrative Year, or if that day shall occur on a Saturday, Sunday or Holiday, they shall meet on the first working day thereafter. They shall meet at the official domicile of the Louisiana Engineering Society. The findings of this committee shall be reported to the President.

(q) Each committee chairman will maintain dated, chronological records of all committee activities and business conducted during his administrative year. These records will be turned over to the succeeding committee chairman who will have the discretion of discarding any material over two (2) years old which is of no historical value to the committee or the society.

BYLAW 7 — AFFILIATION OR DISASSOCIATION WITH NATIONAL ORGANIZATION

Affiliation or disassociation of the Louisiana Engineering Society with a national organization may be proposed by a majority of the Board of Direction or by a petition signed by not less than 10% of the Members in good standing of this Society. Such petition for affiliation or disassociation shall first be reviewed by the Board of Direction and the findings of this review shall be presented to the membership.

A copy of any proposal for affiliation or disassociation, together with a letter ballot, shall be mailed by the Secretary to each voting member not later than six months after such petition has been received by the Board.

Affiliation or disassociation shall become effective only upon the affirmative vote of two-thirds of the votes cast by the qualified Members, provided that not less than 20% of the qualified Members of the Society cast affirmative ballots.

BYLAWS 8 — LOCAL CHAPTERS

(a) The State shall be divided in local Chapters as follows:

- The Alexandria Chapter
- The Baton Rouge Chapter
- The Bayou Chapter
- The Lafayette Chapter
- The Lake Charles Chapter
- The Monroe Chapter
- The New Orleans Chapter
- The Shreveport Chapter

(b) The boundaries of the local Chapters shall be determined by the Board of Direction, and may be changed at any time by the Board of Direction, provided that prior notice is given to the local Chapter or local Chapters involved and an opportunity is accorded them to make recommendations regarding such proposed changes.

(c) The organization of a local Chapter may be authorized by the Board of Direction upon the written request of not less than fifteen voting members of the Society, whose address of record lies within the boundaries of the proposed local Chapter. The request and the proposed Bylaws for the local Chapter shall be submitted to the Board of Direction for approval. Upon notice of approval given by the Board, the Chapter shall be considered established. Such approval will be followed by the granting of a certificate to the local Chapter.

(d) Members of all grades whose address of record with the Society lies within the boundaries of an established local Chapter shall be assigned and shall be deemed to belong to the local Chapter. The mailing address designated by the member, except an APO or other temporary mailing address, shall be considered as his address of record unless he instructs otherwise. A member who does not subscribe to the Bylaws of the local Chapter and does not pay the Chapter dues prescribed, if any, shall have no part in the government thereof.

(e) Members who request mailing address changes to APO numbers or who request other temporary changes in mailing address shall remain assigned to the respective local Chapters of their individual address of record unless and until specific requests are made by them for changes in their address of record.

(f) The Board of Direction may annually assign, from the funds of the Society, to each established local Chapter, a sum not to exceed \$5.00 for each Member, Surveyor Member, Affiliate Member and Associate Member over 30 years of age; and \$3.00 for each Associate Member under 30 years of age. There are no rebates made for Privileged, Honorary, Life, and Student Members.

(g) Local chapter ladies auxiliaries may be established with approval of the chapter membership. The purpose of an auxiliary shall be to assist in promoting the best interests of the professional engineer and the Society. The auxiliary shall be responsible to the local Chapter for its policies including ratification of bylaws.

BYLAW 9 — STUDENT CHAPTERS

(a) Upon the written request of not less than ten undergraduates matriculated in an established school of higher education of approved standing in the State of Louisiana, the Board of Direction may approve the establishment of a Student Chapter.

(b) The objective of such Student Chapters shall be to provide a program of professional development and engineering orientation for the student.

(c) Each Student Chapter shall conduct its affairs in conformity with the Constitution of the Society and the rules established by the Board of Direction. In all matters of school concern the Student Chapter shall have full autonomy, but may call upon the nearest Chapter of the Society for advice, counsel and assistance.

(d) Should the Student Chapter become affiliated with the National Society of Professional Engineers, dues for each member shall be as established by the Society for a Student Member plus NSPE dues per annum.

(e) Type of Student Chapter

ALPHA STUDENT CHAPTER — Shall be in a college of engineering having a curriculum or curricula of at least four year's duration accredited by the Accreditation Board for Engineering and Technology.

BETA STUDENT CHAPTER — Shall be in a school or college of engineering having a curriculum or curricula of at least four year's duration leading to an engineering degree.

DELTA STUDENT CHAPTER — Shall be in a school, college, or junior college having a curriculum or curricula of at least two year's duration designated as being preparatory for engineering courses in a school or college giving an engineering degree.

(f) **Minimum Number of Students** — An LES Student Chapter may be organized by proper petition of a minimum of ten (10) interested students. Thereafter an established student chapter shall maintain at least ten (10) student members in good standing.

(g) **Constitution and Bylaws** — The student chapter shall have a constitution and bylaws that is in full compliance with the rules, regulations and policies of the school. The student chapter constitution and bylaws shall be submitted to and be approved by the LES Board of Direction.

(h) **Board of Sponsors** — Each student chapter shall have, and be under the guidance of a Board of Sponsors, or an equivalent group. The Board of Sponsors shall preferably consist of one faculty advisor for each 400 students enrolled in the college of engineering, or a faculty advisor from each degree granting department and at least three non-faculty members from the state society (either from the state or local chapter committee). To establish lines of communication and responsibility, one member of the faculty shall agree to serve as the student chapter faculty advisor and one non-faculty member of the local LES chapter shall agree to serve as the chapter contact member.

(i) **Application** — Applications shall be made on petition forms prescribed by the Louisiana Engineering Society and shall contain all endorsements required therein.

(j) **Annual Report** — Each student chapter shall submit an Annual Report prepared by officers and the Board of Sponsors covering the highlights of its activities, programs, projects and achievements. The Annual Report shall cover the twelve month period of May 1st to April 30th, and shall be submitted to LES State Headquarters not later than May 10th.

(k) **Meetings** — Each student chapter shall have at least four meetings during the school year, with at least half (preferably more) devoted to non-technical professional subjects. In Delta Chapters these would normally concentrate on developing the student's interest in the engineering profession.

BYLAW 10 — PRACTICE DIVISIONS

(a) The Board of Direction may authorize the establishment of Practice Divisions comprising members who have common professional problems and interests, to operate under the Constitution and Bylaws of the Society. The Board shall define the scope and activity and the sphere of interest of such Divisions.

(b) The Practice Divisions shall be so conducted as to provide effective forums for discussion and united action on the part of members grouped according to type of professional employment and betterment of professional recognition and status, conditions of employment, and other matters of mutual welfare. Each member of the Society shall be assigned to a Practice Division according to his particular type of professional employment, provided he meets the membership requirements of the approved Bylaws of that Practice Division, otherwise he will be placed in an Unassigned category. Any member may request this Unassigned category, or he may apply for membership in any Practice Division in which he has a special interest.

(c) The Officers of each Practice Division shall consist of a Chairman, Immediate Past Chairman, Vice-Chairman and a Secretary. Officers shall be elected by the Practice Division participants at a general meeting of the Division held at the time of the Annual Meeting of the Society. They shall hold Office for a period of one year concurrent with the Administrative Year of the Society.

(d) Each Practice Division shall hold at least one general meeting each year at the time and place of the Annual Meeting of the Society. The Officers shall constitute the Division's Executive Board. The Division Executive Board may hold meetings in addition to the Annual Meeting. Meetings of the Division Executive Board shall be open to Division participants.

(e) When considered necessary for the promotion of forwarding of its special objectives, any Practice Division may establish a fund for the purpose, the method of securing such funds to be approved by the Board of Direction. The Treasurer of the Society shall be custodian of all Practice Division funds, the expenditure of which shall be subject to the approval of the Division Executive Board.

(f) Minutes shall be kept of all meetings of Practice Divisions and of their Divisions' Executive Boards, and copies thereof shall be filed in the Office of the Society as soon as possible after the close of such meetings. An annual report outlining the Division activities for the year, including financial statement, Officers, etc., shall be made to the Board of Direction.

(g) All proposed programs, as well as activities to formulate or implement existing policy, shall be submitted to the Board of Direction for approval. All public statements, recommended policy action, or any action affecting other Practice Divisions or other segments of the Society shall be processed and released in accordance with the regular procedures of the Society.

(h) The Board of Direction shall either adopt without major modification, reject, or return for further consideration any recommended policy or statement submitted by any Practice Divisions.

(i) The Board of Direction may dissolve any Practice Division upon the request of that Division, or if a Practice Division fails to comply with the Constitution and Bylaws or policies of the Society.

BYLAW 11 — AMOUNTS OF ANNUAL DUES

In accordance with the Constitution Article VI, Section 1, the base dues effective January 1, 1977, are:

Member	\$30.00
Surveyor Member	30.00
Associate Member (30 years of age or over)	30.00
Associate Member (Under 30 years of age)	22.00
Affiliate Member	33.00
Student Member	2.00
Privileged Member	5.00

(Article VI-Dues of the Constitution authorizes 5% increase annually, effective January 1, 1977)

BYLAW 12 — BALLOT RETURN PROCEDURE

Any ballot to be counted must be returned as follows, except for those for which a different procedure may be given elsewhere in the Constitution or Bylaws.

The ballot will be marked or left unmarked in accordance with the instructions accompanying it. Then it shall be placed in the plain unmarked envelope, furnished with the ballot, and sealed. This unmarked envelope shall be placed inside the pre-addressed envelope, also furnished with the ballot, and then sealed. This envelope shall be signed on the back, with legal signature of the member, and his name shall

be printed, stamped or typed beneath it for identification, and the proper postage affixed. Sealed, signed and identified envelopes that are delivered direct to the State Office in Baton Rouge will be counted.

Ballots that do not have enough postage, or are not signed and identified on the outer envelope, or that do not arrive by the closing time limit, shall not be counted.

BYLAW 13 — PARLIAMENTARY PROCEDURE

Roberts Rules of Order Newly Revised, or the latest edition thereof, shall govern matters of parliamentary procedure at all meetings.



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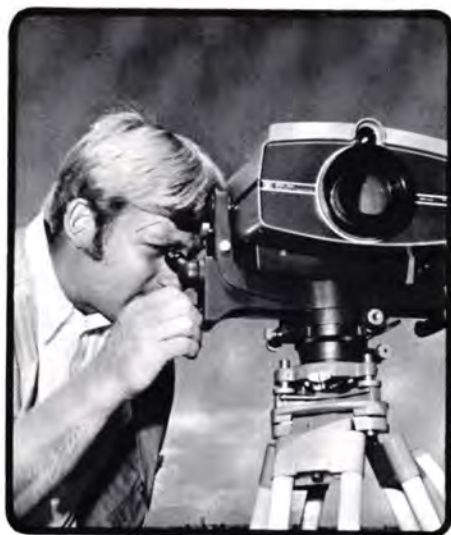
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ENGINEERING SERVICES SECTION

Directory Of Engineering Firms

This section of the 1982-1983 LOUISIANA ENGINEERING SERVICES DIRECTORY is designed to provide readers with relevant information about many firms legally authorized to practice engineering in Louisiana. Each indexed listing shows the name of the firm, address, phone number, principals, offices and qualifications.

Please note that the Index of Engineering Firms begins on page 199 and the Directory of Engineering Firms begins on page 188. The Qualification Index below lists the many qualifications given in the firm listings. For instance, if the reader is seeking a firm qualified to design bridges, the Qualification Index shows the page in the adjacent Index of Engineering Firms on which a list of firms is found with bridges as a qualification. This list gives the reader the page numbers on which the firms are located in the Directory of Engineering Firms.

All firms authorized to practice engineering in Louisiana were eligible to list in the LOUISIANA ENGINEERING SERVICES DIRECTORY. The Louisiana Engineering Society appreciates the support of those firms which purchased space in this DIRECTORY to provide LES members and the public with information about their services.

AILLET, FENNER, JOLLY & McCLELLAND, INC.

1055 Louisiana Avenue
Shreveport, LA 71101
(318) 425-7452

PRINCIPALS

Robert R. Aillet
Robert D. Fenner
E. M. Jolly
H. H. McClelland

OFFICES

Shreveport, LA (HQ)

QUALIFICATIONS:

Planning feasibility studies, land surveys, design, plans and specifications and construction inspection for bridges, streets and highways, airfields, water systems, sewage treatment and disposal, drainage, military construction, land development, and structural and foundation systems.

ASHTON AND ASSOCIATES, INC.

11863 Market Place Avenue
P.O. Box 15506
Baton Rouge, LA 70895
(504) 292- 5250

PRINCIPALS

Jack A. Ashton, Jr.

OFFICES

Baton Rouge, LA (HQ)

QUALIFICATIONS:

Electrical and instrumentation engineering for industrial, commercial and governmental projects. Power distribution systems, lighting, control and communications systems, substations, protective device coordination, uninterruptible power systems, grounding, process instrumentation including computer installations, digital, analog and pneumatic instrument systems, analyzers, control console design, short-circuit studies, load flow studies and power factor studies.

BARNARD AND BURK GROUP, INC.

A member of the Matthew Hall Group of companies

10252 Mayfair Drive
Baton Rouge, LA 70895
(504) 293-4000
Telex: 510-993-3463

PRINCIPALS

J. M. Nugent,
President
J. L. Daniel,
Vice President, Administration
C. L. Elliott,
Vice President, Contracts
E. J. Cody,
Treasurer
R. A. Marks,
Vice President, General Manager,
Gulf Coast Operations
C. L. Taylor,
Vice President, Engineering

OFFICES

Baton Rouge, LA (HQ)

QUALIFICATIONS:

Barnard and Burk Group, Inc., headquartered in Baton Rouge, LA, has grown into a full-service engineering and construction company with international affiliations. The firm provides engineering, procurement, construction, contract maintenance, pipe fabrication and construction management services to the oil, gas, chemical process industries. It has vast engineering and construction experience for materials handling, marine structures, fine chemicals and pharmaceutical plants. Barnard and Burk Group is widely recognized for its turnkey, revamp and debottleneck projects.

BURK & ASSOCIATES, INC.

4176 Canal Street
New Orleans, LA 70119
(504) 486-5901

PRINCIPALS

William R. Burk, III
Thomas L. Jackson
George C. Kleinpeter, Jr.
James W. Armbruster

OFFICES

New Orleans, LA (HQ)

QUALIFICATIONS:

Highways, interstate systems, bridges and grade separations, alignment studies, street design, industrial engineering, foundations, wharves, port facilities, plant renovations, oil rig design, sewer treatment and collection, solid waste engineering, sanitary landfills, raw water intake facilities, water treatment, storm drainage, pumping stations, master drainage planning, hurricane protection, parks and recreation planning, marinas, docks, dredge and fill, land development, feasibility reports, reclamation, land use, architecture, landscape architecture, environmental impact analysis, coastal environmental studies, state and federal permitting, construction administration and supervision.

C & C Engineers, Inc.

P.O. Box 45212, Dept. 248
1986 Dallas Drive
Baton Rouge, LA 70895
(504) 928-0226

PRINCIPALS

Robert L. Couvillion, P.E.

OFFICES

Baton Rouge, LA (HQ)

QUALIFICATIONS:

Electrical and Instrumentation for airports, alumina, biomass cogeneration, chemical cleaning/plating, chlorine, clean-coal, coal gasification, copper smelting/refining, fatty acid, gasoline additives, hydrochloric acid, hydrofluoric acid, latex, non-shrink grout, oil field, oil refinery, paper mill, pharmaceutical, phosphoric acid, plastic bag, polymer, pulp, refuse incineration/steam, shipbuilding, sulphuric acid, vinyl chloride, utility power generation, water treatment.

JIM W. CLARK MANAGEMENT CONSULTANTS

Interstate Hwy. 90 & W. Park
P.O. Box 935
Houma, LA 70361
(504) 876-6783

PRINCIPALS

Jim W. Clark

OFFICES

Houma, LA (HQ)

QUALIFICATIONS:

INDUSTRIAL ENGINEERING: Production methods, layout, and engineering economy studies

DESIGN: equipment design and patent services

VALUE ANALYSIS: make function, cost, and worth evaluations of products organization elements

ORGANIZATION: design and modification, systematize men, materials, and machinery, communication network analysis

CONTROLS: cost, production, quality, and inventory

FINANCE: secure loans, and investment, feasibility studies

DATEC, INC.

1141 Whitney Avenue
Gretna, LA 70053
(504) 368-2097
Telex: 58255

PRINCIPALS

J.W. Owensby
T.A. Kritikos
E.R. Genois
W.E. Regan

OFFICES

Gretna, LA (HQ)
Houston, TX

QUALIFICATIONS:

Datec's scope of services consist of computer applications support services, software development, and data processing. Computer applications support are provided for the civil, structural, marine, environmental, and electrical engineering disciplines; project management; fabrication (computerized bills of materials, member cut sheets; coping patterns, and assembly drawings); computer graphics; and accounting (payroll, project cost accounting and billing, and forecasting). Software development services are provided for engineering, project management, fabrication, computer graphics, accounting, and computer systems. Data processing services are provided for on-site batch and time sharing processing, key punch or data entry service; RJE and time sharing service to remote locations.

DEMOPULOS & FERGUSON, INC.

600 Petroleum Tower
Shreveport, LA 71101
(318) 221-7117

PRINCIPALS

Chris Demopoulos
B. M. Ferguson

OFFICES

Shreveport, LA (HQ)
Houston, TX

QUALIFICATIONS:

Complete civil and structural engineering services including feasibility studies, design, contract plans, specifications, and construction inspection of facilities including highways, bridges, airports, water supply, treatment and distribution, solid waste disposal, industrial waste and sewage treatment, drainage, flood control and land planning for military installations, industrial, commercial and residential developments.

DIXON AND CUNNINGHAM

7016 Magnolia Court
Metairie, LA 70003
(504) 454-3866

PRINCIPALS

J. E. Dixon
Silas D. Cunningham

OFFICES

Metairie, LA (HQ)

QUALIFICATIONS:

All major fields of Civil Engineering, including bridges; channels, rivers, canals, waterways; flood control; foundations; highways; industrial engineering; marine structures; parking facilities; pipelines; planning, City and Regional; planning, site planning, subdivisions; pumping stations; recreation, parks and sports facilities; rural/regional water, sewerage, solid waste; sanitary engineering; sewage and wastewater collection, treatment and disposal; storm sewers; structural; transportation/traffic studies; water supply treatment, storage and distribution.

DOMINGUE, SZABO & ASSOCIATES, INC.

17 Pinhook Road
P.O. Box 52115
Lafayette, LA 70505
(318) 232-5182

PRINCIPALS

Emery Domingue
A. J. Szabo
Donald L. Richard
Kenneth E. Deal
Calvin Courville
Michael R. Bergeron
Michael V. Aderman

OFFICES:

Lafayette, LA (HQ)
117 Jefferson Hwy.
Baton Rouge, LA 70806

DYER & MOODY, INC.

P.O. Box 700
845 Ray Weiland Drive
Baker, LA 70714
(504) 775-4800

PRINCIPALS

Lamon L. Moody, Jr.
Ted C. Heil
C. Z. Breaux, Jr.
H. H. Forrester, Jr.

OFFICES

Baker, LA (HQ)

QUALIFICATIONS:

Airports; industrial buildings; bridges; channels, rivers, canals, waterways; dredging; environmental assessment; fire protection systems; flood control; foundations; fuel storage, distribution; gas distribution systems; gas transmission systems; hazardous waste processing; highways; hydrology; industrial park development; irrigation; marine structures; materials handling systems; navigation locks; parking facilities; pipelines; planning, site planning, subdivisions; port facilities; pumping stations; railroads; rate studies; recreation, parks, and sports facilities; rural/regional water, sewerage, solid waste; sanitary engineering; seismic design; sewage & wastewater collection; industrial waste treatment; solid waste disposal; storm sewers; structural; surveying & mapping; surveying & mapping, hydrographic; transportation/traffic studies; value engineering; water supply, treatment, storage and distribution.

QUALIFICATIONS:

Air Conditioning, Heating; Air Pollution Control; Airports; Appraisals; Beach Erosion; Boilers; Bridges; Channels, Rivers, Canals, Waterways; Chemical Plants; Compressor Stations; Conveyors; Dams; Electric Power Distribution; Electric Power Transmission; Electronics; Energy Management; Environmental Assessment; Failure Analysis; Filtration/Purification of Liquids and Gases; Fire Protection Systems; Flood Control; Foundations; Fuel Storage, Distribution; Gas Distribution Systems; Gas Transmission Systems; Hazardous Waste Processing; Highways; Instrumentation, Controls; Lighting; Lumbermills; Marine Structures; Materials Handling Systems; Oil Refining and Industrial Oil Recycling; Paper and Pulp Mills; Parking Facilities; Petrochemical Plants; Pipelines; Planning, City and Regional; Port Facilities; Power Plants, Diesel and Gas Turbine; Power Plants, Fossil Fuel; Pumping Stations; Railroads; Rate Studies; Refineries, Petroleum; Refrigeration; Rural/Regional Water, Sewerage, Solid Waste; Sanitary Engineering; Sewage and Wastewater Collection, Treatment and Disposal; Solid Waste Disposal; Storm Sewers; Structural; Surveying and Mapping; Water Supply Treatment, Storage and Distribution.

EBASCO SERVICES INCORPORATED

AAA Building
3445 North Causeway Boulevard
Metairie, LA 70002
(504) 835-3123

CONTACT

J. M. Brooks

OFFICES

Corporate Headquarters:
Two World Trade Center
New York, New York 10048

Engineering Offices:
Atlanta, GA
Houston, TX
Santa Ana, CA

QUALIFICATIONS:

SERVICES FOR ALL TYPES OF ENERGY AND PROCESS SYSTEMS

ENGINEERING: Project Engineering, Civil, Mechanical, Electrical and Corrosion Engineering, Process Engineering, Instrumentation and Control, Stress Analysis;

CONSTRUCTION: Preconstruction Planning, Contract Management, Cost Control and Accounting, Quality Control and Quality Assurance, Administration, Labor Relations, Safety; CONSULTING: Mechanical, Electrical and Civil Engineering, Geotechnical, Environmental, Licensing, and Business Consulting; PROJECT MANAGEMENT; SUPPORT SERVICES.

FORD, BACON & DAVIS CONSTRUCTION CORP.

P.O. Box 1762
3901 Jackson Street
Monroe, LA 71201
(318) 388-1530
Telex: 510-977-5395

PRINCIPALS

G. D. Pickering
J. R. English
F. H. Vines
E. E. Moncla
O. L. Miles
J. S. Brock

OFFICES

Monroe, LA (HQ)

QUALIFICATIONS:

Ford, Bacon & Davis is an internationally known engineering and construction company which was founded in 1894. The Ford, Bacon & Davis organization consists of three major operating divisions strategically located in Monroe, LA; Dallas, TX; and Salt Lake City, UT. We have provided services to over 10,000 industrial clients located in forty different countries.

Industries served by Ford, Bacon & Davis include: Pulp and Paper, Chemical, Industrial Power, Pipeline, Compressor Station, Refining, Mining, Gas Processing, Nuclear, and General Industrial.

HARCO CORPORATION

4729 Trenton Street
Metairie, LA 70002
(504) 887-7800

PRINCIPALS

Joe McDade
Joe Rog
David Kroon
Mike Baach
Ralph B. Pass
J. G. Schexnayder

OFFICES

Medina, OH (HQ)
Houston, TX
Metairie, LA

QUALIFICATIONS:

Harco Corporation has been exclusively in the cathodic protection business for over 34 years. We have operating offices in many major cities in the USA, including one in New Orleans, LA and have agents in several areas throughout the world.

Harco Corporation has three major divisions; Engineering, Construction and Material Sales to better serve our clients. Our engineering group has extensive experience in writing specifications, field investigations, system design and monitoring of cathodic protection systems. Our Construction Division is staffed with experienced installation personnel and is equipped with well maintained construction equipment. Our Sales Division maintains a generous stock of quality cathodic protection materials for those clients with in-house construction capabilities.

HOWARD NEEDLES TAMMEN & BERGENDOFF (HNTB)

5615 Corporate Blvd., 3rd Floor
Baton Rouge, LA 70808
(504) 927-4724

PRINCIPAL:

John L. Cotton

OFFICES:

Baton Rouge, LA
Offices in 28 other U.S. cities

QUALIFICATIONS:

HNTB's staff of over 1500 includes specialists in virtually all aspects of the planning-design-construction process. HNTB has pioneered in the administration of multidiscipline design teams. Its decentralized structure enables HNTB to offer resources of an international organization for solutions to local problems. On every project the local office is responsible for organizing the design team, drawing on skills from other offices as the job requires, supervising the program, and providing direct, personalized client service at all stages.

HTB, INC.

411 Classen Boulevard
Oklahoma City, OK 73101
(405) 525-7451
Telex: 748593

PRINCIPALS

P. G. Wilson, Jr., P.E.
R. Keith Hinchey, P.E.

OFFICES

Oklahoma City, OK (HQ)
Tulsa, OK
Washington, D.C.

INTERCON ENGINEERS, INC.

P.O. Box 45212, Dept. 399
Baton Rouge, LA 70895
334 S. Sherwood Forest Blvd. — Suite 175
Baton Rouge, LA 70816
(504) 292-9580

PRINCIPALS

J. F. Micale, President
J. R. Trask, Jr.,
Chief Process Engineer
J. L. McDonough,
Chief Instrument/Electrical Engineer
W. B. Merrill,
Chief Mechanical Engineer
R. G. Thomas,
Chief Civil/Structural Engineer
W. A. Hartsfield,
Chief Piping Engineer

OFFICES

Baton Rouge, LA (HQ)

LEVINGSTON ENGINEERS, INC.

P.O. Box 1865
Lake Charles, LA 70602
(318) 625-8212
Telex: (318) 625-8212

PRINCIPALS

Ernest Levingston

OFFICES

Lake Charles, LA (HQ)
Houston, TX
Port Arthur, TX

QUALIFICATIONS:

MECHANICAL ENGINEERING — Vessels, Compressors, Pumps, Drivers, Heat Exchangers, Fired Heaters and Boilers, Mixers, Agitators, Conveyors, Dry and Wet Filters, Cooling Towers, Flares, Oil Separators, Tanks, Scales, Silos, Pneumatic Transfer Systems, Piping, Pipe Stress, Flow Sheets, Plot Plans.

CIVIL/STRUCTURAL ENGINEERING — Roads Drainage, Structures, Railroads, Foundations, Pipe Supports, Pipe Ridges, Site Preparation, Plot Plans.

ELECTRICAL ENGINEERING — Power Distribution, Substations, Controls, Lighting.

INSTRUMENT ENGINEERING — Electronic and Pneumatic Instrument Systems, Programmable Controllers, Digital Controllers, Control Rooms, Panels, Communication Systems, Flow Sheets.

QUALIFICATIONS:

HTB is a "full service" architecture/engineering/planning firm represented by such engineering disciplines as civil, mechanical, structural, industrial, site, electrical, sanitation, soil, construction and transportation. Other areas of specialization include architecture, interior design, urban and regional planning, estimating, space planning, construction inspection/management, systems analysis and airport planning.

QUALIFICATIONS:

Intercon Engineers, Inc., a member of Turner Investments, Ltd. and sister companies to Nichols Construction Corp. and Harmony Construction Corp. is offering full engineering, procurement, construction and project management services to the refinery, petro chemical, chemical, pulp and paper, metals and fertilizer industries. The character of these projects include conceptual definitions, feasibility studies and estimates, modifications to existing facilities and grass roots process and utility units. In response to a wide range of client preferences, we can offer engineering and design, with or without procurement, or a total single source engineering, procurement and construction services contract which places sole responsibility with Intercon, from inception thru mechanical completion. Contractual arrangements may be made based upon lump sum, fixed fee, guaranteed maximum or cost plus agreements, depending upon client preference.

PROCESS ENGINEERING — Fluid Flow, Heat Transfer, Energy Conservation, Pollution Control, Flow Sheets.

ARCHITECTURAL DESIGN — Buildings, HVAC.

SURVEYING — Monument and Coordinate Systems, Topographic Surveys, Optical Alignment Elevations.

SPECIFIC FACILITIES EXPERIENCE — Refinery and Chemical Plant Offsites, Refinery Crude and Vacuum Units, Linear Alkyl Benzene, Acid Plants, FCCU Catalyst Production, Olefins Plant, Lube Oil Additives, Benzene, Cyclohexane, Gasoline Blending Systems, Normal Paraffin Production, Alcohol Fractionation.

MAY ENGINEERING COMPANY

2361 Hollydale Avenue
Baton Rouge, LA 70808
(504) 387-5045

PRINCIPALS

D. B. McCaul
B. M. Nagle
L. A. St. Germain
D. C. Kenagy
R. W. Raines

OFFICES

3500 W. 75th Street — Suite 301
Prairie Village, Kansas 66208 (HQ)
Baton Rouge, LA

QUALIFICATIONS:

Preparation of Engineering Studies, Reports, Cost Estimates, Preliminary Plans, State-of-the-Art Studies, Facility Plans, Detail Plans and Specifications, Regulatory Approvals, Construction Assistance and Inspections, Rate Studies, On-Call Engineering Services, Assistance in Operating Problems, all in the Civil, Electrical, Mechanical and Structural Fields.

McCLELLAND ENGINEERS, INC.

4450 General DeGaulle Drive
New Orleans, LA 70114
(504) 393-6666

PRINCIPALS

Rudy J. Dietrich
Robert L. Perkins
T. Abrams
E. Grubbs
C. Mansur
H. Meadow

OFFICES

Houston, TX (HQ)	San Diego, CA
Dallas, TX	London, U.K.
New Orleans, LA	Dubai, UAE
Little Rock, AK	Dammam, Saudi Arabia
St. Louis, MO	Singapore, Singapore
Ventura, CA	Halifax, Nova Scotia
San Francisco, CA	Jakarta

QUALIFICATIONS:

Geotechnical consulting services including geology, geophysics, soil and foundation engineering, and materials testing for onshore, nearshore and offshore facilities. Services may be applied to industrial plants, fossil and nuclear power plants, heavy construction, public works, surface mines, commercial and public buildings, bridges, dams, levees, excavations, waste management, waterfront facilities, fixed offshore platforms, mobile drilling rigs and marine pipelines. Integrated services include onshore and marine borings, in situ testing, field instrumentation, high resolution geophysics, laboratory testing of soils and construction materials, engineering analyses and evaluation, and construction surveillance.

MEYER, MEYER, LACROIX & HIXSON, INC.

3666 Government Street
P.O. Drawer 5444
Alexandria, LA 71301
(318) 448-0888

PRINCIPALS

James L. Meyer, P.E., R.L.S.
Arthur E. Meyer, Jr., P.E., R.L.S.
Thomas D. Hixson, P.E., R.L.S.
R. B. LaCroix, R.L.S.
John W. Moore, P.E.

OFFICES

Alexandria, LA (HQ)
Ruston, LA

QUALIFICATIONS:

Airports; bridges; channels, rivers, canals, waterways; dams; dredging; fire protection systems; flood control; foundations; gas distribution systems; highways; hydrology; irrigation; parking facilities; pipelines; planning, City and Regional; planning, site planning, subdivisions; pumping stations; railroads; rate studies; recreation, parks and sports facilities; rural/regional water, sewerage, solid waste; sanitary engineering; sewage and wastewater collection treatment and disposal; storm sewers; structural; surveying and mapping; testing laboratories; value engineering; water supply treatment, storage and distribution.

MEYER AND ASSOCIATES, INC.

P.O. Box 2128
J Cities Service Highway
Sulphur, LA 70663
(318) 625-8353

PRINCIPALS:

ernon F. Meyer
ichard T. Meyer

OFFICES:

lphur, Louisiana (HQ)
ke Charles, Louisiana
ew Orleans, Louisiana
aumont, Texas
Ridder, Louisiana

QUALIFICATIONS:

Airports; Appraisals; Architecture; Bridges; Cement Plants; Channels, Rivers, Canals, Waterways; Chemical Plants; Construction Management; Conveyors; Dams; Dredging; Environmental Assessment; Filtration/Purification of Liquids and Gases; Fire Protection Systems; Flood Control; Foundations; Fuel Storage, Distribution; Gas Distribution Systems; Gas Transmission Systems; General Contractors/Design and Build Facilities; Geology, Geodetic Surveys; Grain Facilities; Hazardous Waste Processing; Highways; Hydrology; Industrial Engineering; Marine Structures; Materials Handling Systems; Parking Facilities; Pipelines; Planning, City and Regional; Planning, Site Planning, Subdivisions; Port Facilities; Pumping Stations; Railroads; Rate Studies; Recreation, Parks and Sports Facilities; Rural/Regional Water, Sewerage, Solid Waste; Sanitary Engineering; Sewage and Wastewater Collection, Treatment and Disposal; Solid Waste Disposal; Storm Sewers; Structural; Surveying and Mapping; Surveying and Mapping, Geodetic; Surveying and Mapping, Hydrographic; Transportation/Traffic Studies; Value Engineering; Water Supply Treatment, Storage and Distribution.

MORPHY, MAKOFSKY AND MASSON, INC.

336 North Jefferson Davis Parkway
New Orleans, LA 70119
(504) 488-1317

PRINCIPALS

Edward R. Morphy
Donald C. Makofsky
G. Emile Masson, Jr.

OFFICES

New Orleans, LA (HQ)

QUALIFICATIONS:

Airports; Bridges; Cement Plants; Construction Management; Cost Consulting; Criminal Justice Facilities; Elevators, Escalators, Speedwalks; Failure Analysis; Foundations; Highways; Hospitals; Parking Facilities; Port Facilities; Pumping Stations; Recreation, Parks and Sports Facilities; Structural.

N-Y ASSOCIATES, INC.

2700 Lake Villa Drive
Metairie, LA 70002
(504) 885-0500

PRINCIPALS

Frank Nicoladis, P.E.
Kenneth E. Thomas, P.E.
Malcolm O. Sayes, P.E.
Robert E. Bredberg, P.E.
Joseph D. Craft, Jr.
Albert W. Drake, A.I.A.

OFFICES

Metairie, LA (HQ)
Houma, LA
Biloxi, MS

QUALIFICATIONS:

Air pollution abatement; architecture; bridges; buildings and special structures; bulk handling facilities; dock and port facilities; fire protection systems; flood control structures and levees; foundations; hazardous waste; highways and streets; hydrology; industrial plant facilities; land development and subdivisions; natural gas systems; parking facilities; pumping stations; railroad facilities; solid waste; storm drainage; surveying; traffic studies; transit facilities; urban and regional planning; wastewater collection and treatment; water supply, distribution and storage.

WALDEMAR S. NELSON AND COMPANY, INCORPORATED

1200 St. Charles Avenue
New Orleans, LA 70130
(504) 523-5281
Telex: 584351—NELSENG

PRINCIPALS

Waldemar S. Nelson
Henry I. Madden
Charles H. Weatherly
Jerrel J. Freeman
Leonardo A. Villalon

OFFICES

New Orleans, LA (HQ)

QUALIFICATIONS:

Engineering design of compressor stations, petrochemical and chemical plants, offshore drilling and production platforms, mineral processing plants, power plants, bulk handling and storage facilities, pumping stations, river docks and other marine structures. Environmental control studies and design of pollution abatement and waste collection facilities.

KENNETH L. ODINET AND ASSOCIATES, INC.

P.O. Box 279
6535 Burgundy Street
Arabi, LA 70032
(504) 279-2555
Telex: 58-74-13

PRINCIPALS

Kenneth L. Odinet

OFFICES

932 Angela Street
Arabi, LA 70032

QUALIFICATIONS:

Cost Consulting; Contract Management; Marine Facilities, Designs and Permit Applications, Coal Handling Facilities, Pipeline and Station Design, Inspection, Management.

Barge Building and Launch Facilities Design, Contract Management. Dock, Pier, Vessel and Equipment Inspections and Damage Surveys.

PETRO-MARINE ENGINEERING, INC.

1141 Whitney Avenue
Gretna, LA 70053
(504) 368-2051
Telex: 58255

PRINCIPALS:

J.W. Owensby	P.J. Cutt
T.A. Kritikos	H.G.S. Wanstall
E.R. Genois	J.D. Magness
R.A. Hall	
M.G. Burnitt	
D.G. Olivier	

OFFICES

Gretna, LA (HQ)
Houston, TX
Lafayette, LA
London, England
Copenhagen, Denmark

QUALIFICATIONS:

PME's scope of services includes project development from concept through start-up and operations. In the conceptual phase PME prepares feasibility studies, design optimizations, cost estimates, economic evaluations, manpower forecasts and overall plans and schedules. Engineering and design expertise are provided for marine structures, civil mechanical planning and electrical facilities, environmental planning, process systems, naval architecture, pipelines, computer analyses, regulatory permits, construction specifications and drawings, contract documents and bid analysis. For the construction phase, PME can provide project control and as-built drawings, construction management, quality control and material control. For the commissioning phase, PME can provide operator training, operation manuals and maintenance manuals. In working with PME, a client has the advantage of selecting the services to fit his project.

PRENTICE & RECORDS ENTERPRISES, INC.

P.O. Box 53557
Lafayette, LA 70505
(800) 551-3052
LA residents 1-800-252-3398
(318) 233-9130
Telex 586609

PRINCIPALS

Charles M. Prentice
Phil Amy, III
Ian J. Brumbaugh
Did Breaux

OFFICES

Lafayette, LA (HQ)

QUALIFICATIONS:

Petroleum Engineering; Oil and Gas Reservoir Evaluation; Drilling; Production; Well Planning; Log Analysis; Oil and Gas Training; Petroleum Problem Analysis.

YBURN & ODOM, INC.

P.O. Box 267
Baton Rouge, LA 70821
(504) 766-6330

PRINCIPALS

Leo M. Odom, P.E.
Harold L. S. Odom, P.E.
James R. Gilbert, P.E.

OFFICES

Baton Rouge, LA

QUALIFICATIONS:

Pipeline river crossings routing and site selection, design and inspection; waterfront structures design and inspection; industrial river site selection; highway design; flood plain studies; water supply studies; river hydraulics; environmental baseline studies; environmental impact statements; groundwater studies; air quality control; water quality control; wastewater treatment; coastal studies; environmental computer modeling; laboratory investigations; environmental monitoring and surveillance; solid and hazardous waste management; surveying and mapping, including hydrographic and inertial surveys and pipeline route surveys.

THE RBA GROUP

3973 Sherwood Forest Blvd.—Suite 1A
Baton Rouge, LA 70816
(504) 293-4752

PRINCIPALS

William Garro, P.E., P.P.
John D. Edwards, Jr., P.E.
John Christman, P.E.
James R. Gage, P.E.
William D. Kirk, Jr.
Gerald J. Bour

OFFICES

Morristown, N.J. (HQ)
Baton Rouge, LA
Atlanta, GA
Montgomery, AL
Birmingham, AL
Columbia, MD
New York, NY

QUALIFICATIONS:

Architecture; Bridges; Channels, Rivers, Canals, Waterways; Construction Management; Cost Consulting; Criminal Justice Facilities; Dams; Energy Management; Environmental Assessment; Failure Analysis; Flood Control; Foundations; Highways; Hydrology; Landscape Architecture; Natural Resources Surveys; Parking Facilities; Planning, City and Regional; Planning, Site Planning, Subdivisions; Pumping Stations; Rapid Transit Systems; Recreation, Parks and Sports Facilities; Research and Development Laboratories; Rural/Regional Water, Sewerage, Solid Waste; Sanitary Engineering; Sewage and Wastewater Collection; Solar Energy; Storm Sewers; Structural; Surveying and Mapping; Surveying and Mapping, Geodetic; Surveying and Mapping, Hydrographic; Transportation/Traffic Studies; Tunnels; Value Engineering; Water Supply Treatment, Storage and Distribution; Urban Design, Rehab and Reuse; Municipal Engineering; Land Development; Environmental Planning.

STEIMLE & ASSOCIATES, INC.

3826 Airline Highway
P.O. Box 865
Metairie, LA 70004
(504) 831-2574

PRINCIPALS

Stephen E. Steimle
Rolland A. Mura
Maureen M. Mulino

OFFICES

Metairie, LA (HQ)

QUALIFICATIONS:

Air pollution; aquatic biology; civil engineering; coastal zone management; cost consulting; drainage; environmental assessments and impacts; environmental engineering; environmental health; environmental monitoring; environmental planning; environmental regulatory requirements; environmental reports; filtration/purification of liquids and gases; flood control; foundations; geotechnical engineering; general ecology; hazardous waste; hydrogeology; hydrology; ichthyoplankton surveys; industrial engineering; industrial wastewater; limnology; marine, estuarine and wetland ecology; natural resources surveys; oil refining (pollution control); oil (and other material spills) environmental monitoring (immediate response); oyster reef evaluations and damage surveys; permit acquisition consultation; pipelines; planning and site evaluations; pumping stations; rural/regional water, sewerage and solid waste; sanitary engineering; sewage and wastewater collection, treatment and disposal; shipyard and gas freeing pollution control; soil mechanics; solid waste disposal; storm sewers; stream modeling; water quality surveys; water supply treatment, storage, and distribution.

WALK, HAYDEL, & ASSOCIATES, INC.

600 Carondelet Street
New Orleans, LA 70130
(504) 586-8111
Telex 58-7302

PRINCIPALS:

Frank H. Walk, P.E., Chrmn. of Board
G. M. Haydel, P.E., Pres.
P. R. Quirk, P.E., Exec. Vice Pres.
H. D. Hoskins, P.E., Sr. Vice Pres.
E. T. L. Borie, P.E., Sr. Vice Pres.
P. C. Hamilton, P.E., J.D. Vice Pres.,
Bus. Dev.

OFFICES

New Orleans, LA (HQ & 2 branch offices)
Baton Rouge, LA
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MECHANICAL — PROCESS PIPING

**PLUMBING AND
AIR CONDITIONING SERVICE**



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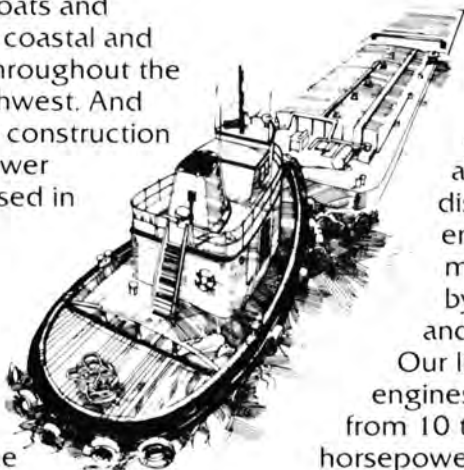
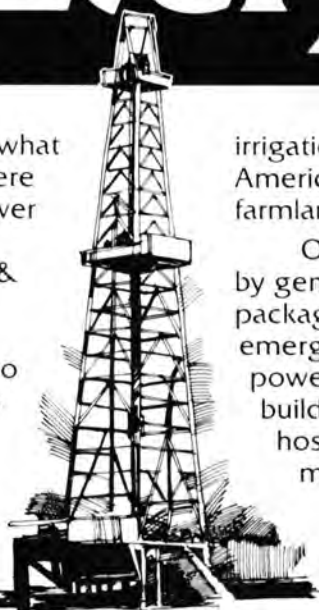
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Barnard and Burk Engineers & Constructors, Inc.
Hawaiian Independent Refinery

Jim W. Clark Management Consultants
Superior-Driftable Tread Protector

Demopulos & Ferguson, Inc.
Modifications to the Shreveport, LA 200 Ton Per Day Incinerator

Domingue, Szabo & Associates
Lafayette General Hospital Addition

Ebasco Services Incorporated
Waterford SES Unit No. 3

Ford Bacon & Davis Construction Corporation
Crown Zellerbach Mill Recovery Boiler Facility

Harco Corporation
Louisiana Offshore Oil Port, LOOP INC.

Howard Needles Tammen & Bergendoff
Harvey Canal Bridge

Intercon Engineers, Inc.

May Engineering Company
Lafayette, Louisiana Water Treatment Plant

McClelland Engineers, Inc.
LOOP Brine Storage Reservoir

Meyer, Meyer, LaCroix & Hixson, Inc.
Louisiana Baptist Convention Conference Center

Waldemar S. Nelson and Company, Inc.
International Matex Tank Terminal

N-Y Associates, Inc.
Port of Gulfport

Owen and White, Inc.
Hiwassee Utilities Water Treatment Plant

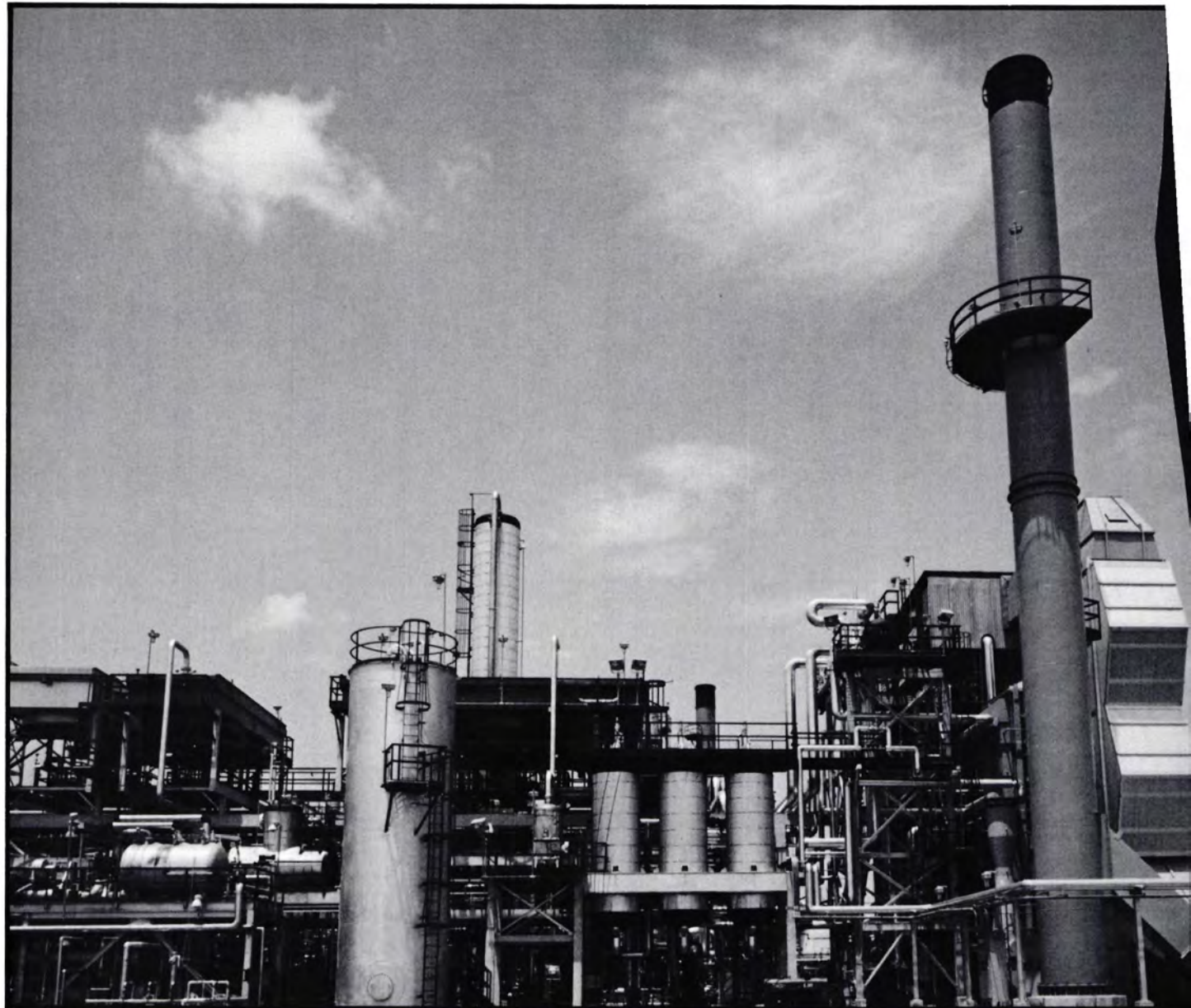
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Badger Oil & Gas Corp. Zaunbrecher #1 Well

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The RBA Group
Atlanta Galleria

Steimle & Associates, Inc.
Production Well Blowout-Southern Louisiana

Walk, Haydel & Associates, Inc.
Louisiana Offshore Oil Port, Onshore Terminal Facilities



CREDITS FOR BARNARD AND BURK ENGINEERS & CONSTRUCTORS, INC.
OUTSTANDING PROJECT—Hawaiian Independent Refinery Facility

PROJECT:

Hawaiian Independent Refinery
Facility

OWNER:

Hawaiian Independent Refinery, Inc.

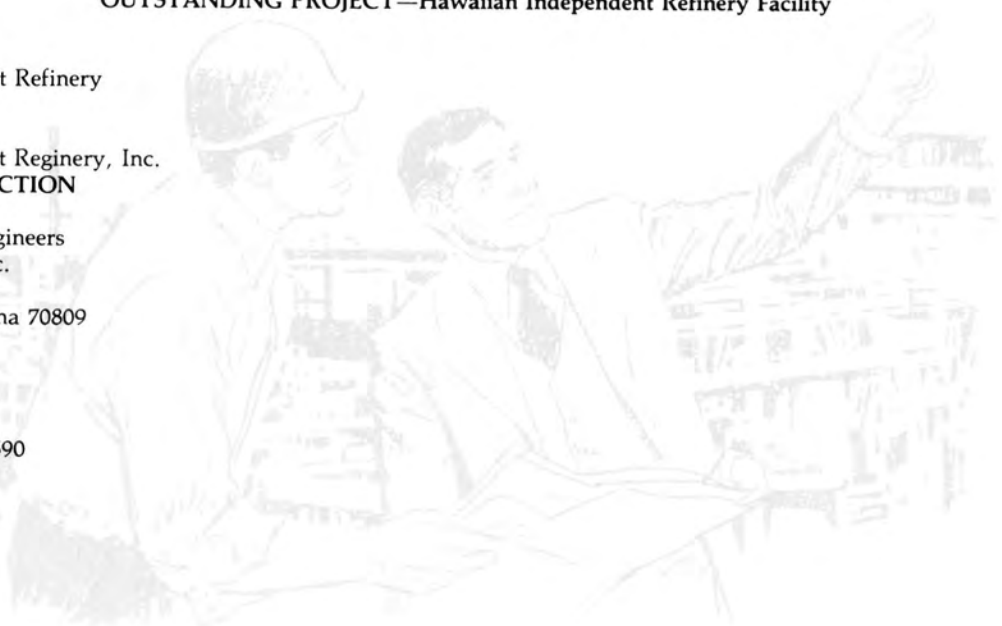
ENGINEER/CONSTRUCTION

MANAGER:

Barnard and Burk Engineers
& Constructors, Inc.
10252 Mayfair Drive
Baton Rouge, Louisiana 70809
504-293-4000

SUBCONTRACTORS:

Gene Nelson, Inc.
P.O. Box 2568
Texas City, Texas 77590
713-488-1556



Barnard and Burk Engineers & Constructors, Inc., of Baton Rouge, completed engineering, procurement and construction management services of a multimillion dollar grass-roots hydrogen generating plant for Hawaiian Independent Refinery, Inc. at their refinery located at Barbers Point, Oahu, Hawaii.

Barnard and Burk, in conjunction with Heat Research Corporation, a wholly owned subsidiary of Wheelabrator-Frye, provided the total facility turnkey. Hawaiian Independent Refinery, Inc. is a wholly owned subsidiary of Pacific Resources, Inc., a Honolulu headquartered independent energy company.

The facility will produce 17,600,000 standard cubic feet of high-purity hydrogen per day. The hydrogen is used in a distillate hydro cracking unit.

Construction began in mid-1981 and was completed on schedule in 1982. Work at the site was often performed in two shifts or with 56 hour workweeks. The field force peaked with about 130 persons.

Southeast Fabricators, Inc., of Baton Rouge, which is Barnard and Burk's fabrication subsidiary, provided all of the large and small bore alloy piping as well as the large bore carbon steel pipe. Barnard and Burk also handled all procurement of materials and equipment during the project.

Procurement and shipment of equipment and materials was a tremendous challenge since virtually nothing could be purchased in Hawaii. All supplies for the subcontractors had to be obtained and shipped from the continental United States.

A very stringent procurement and expediting schedule was established which required Barnard and Burk to draw upon its almost 40 years experience working with various U.S. suppliers and shipping companies to provide these supplies on time and within budget.

To keep the supply chain moving smoothly, Barnard and Burk staff traveled to various manufacturers' locations and shepherded items through production then forwarded them to designated locations for further handling. This attention to detail resulted in all equipment being at the site on or before it was needed in the critical path schedule. Consequently, all site work proceeded without any delay due to lack of equipment.

The overall facility consists of three major sections:

- 1) Naphtha feed desulfurization section, which includes three reactors.
- 2) Raw hydrogen gas preparation section, which includes the Heat Research—designed reformer. Reforming is followed by two stages of carbon monoxide shift conversion.
- 3) Hydrogen purification section consisting of carbon dioxide and carbon monoxide removal.

A detailed scale model was built during the engineering phase and was used as a design tool. Later, it was shipped to the job site and used as a visual aid during construction.

Barnard and Burk Engineers & Constructors, Inc. is a full-service engineering and

construction organization offering the entire range of disciplines from conceptual engineering to plant commissioning. It was formed in 1943 in Baton Rouge and is a wholly owned subsidiary of Barnard and Burk Group, Inc., itself a member of the Matthew Hall Group of Companies.

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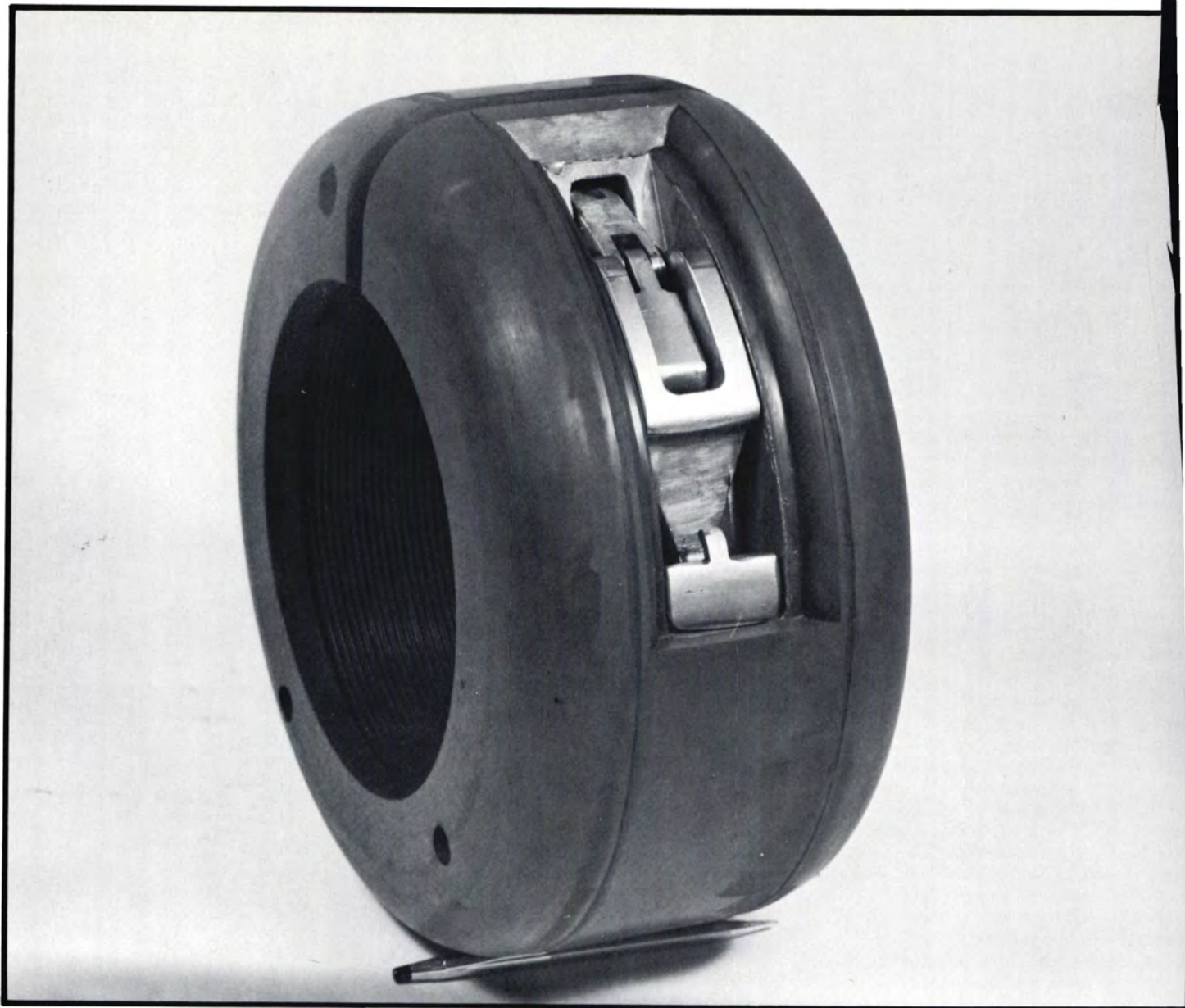
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CREDITS FOR JIM W. CLARK MANAGEMENT CONSULTANTS OUTSTANDING PROJECT—Superior-Driftable Thread Protector

PROJECT:

Superior-Driftable Thread Protector

OWNER:

Superior Casing Crews, Inc.
2644 North Causeway Boulevard
P.O. Box 6140
Metairie, Louisiana 70009
504-838-8861

ENGINEER:

Jim W. Clark Management
Consultants
P.O. Box 935
Houma, Louisiana 70360
504-876-6783

CONTRIBUTING COMPANIES:

Metal Parts, Inc.
P.O. Box 6513
Gulfport, Mississippi 39501
601-896-1920

(Assemblers)

Superior Casing Crews, Inc.
2644 North Causeway Boulevard
P.O. Box 6140
Metairie, Louisiana 70009
504-838-8861

Jim W. Clark Management Consultants was engaged to design and implement an effective production process for the Superior thread protector. Initial product study clearly showed performance problems existed. Superior Casing Crews' management accepted the product redesign proposal as a course of action.

Superior Casing Crews, headquartered in New Orleans, is an international oil well service company specializing in casing and rental tools. As a leader in casing service, management was in quest for a tool which would be competitive in price, function in a wide temperature range, save rig time, and improve casing installation safety.

Product design constraints imposed by function and climate are: It must absorb

shock of heavy loading when casing is pulled from rig floor into derrick, deform when sliding over irregular surfaces under heavy loads, open with a two-finger pull release force, be self contained and accommodate guy wire delivery, operate within temperature range of a metal rig floor under hot tropical sun to freezing cold, and resistant to acidic, and basic drilling mud additives.

70 durometer neoprene was selected as the elastomeric body material. Stainless or corrosion resistant steel is used in producing all structural components. Parts subjected to wear during operation are heat treated to produce case hardened condition. A perforated, and heat treated band is incorporated to bias the protector to the open position.

Thread protector patent assigned to Superior Casing Crews, Inc. Patents are pending in: U.S.A., France, Canada, Germany, Britain, & Mexico.

This writing would be incomplete without grateful recognition to the following companies:

DUPONT—neoprene

GSC FOUNDRIES—steel investment castings

RUBBER APPLICATORS—molding

STERLING MACHINE—prototype parts machining

ACADIAN AIRMOTIVE—prototype hardware procurement

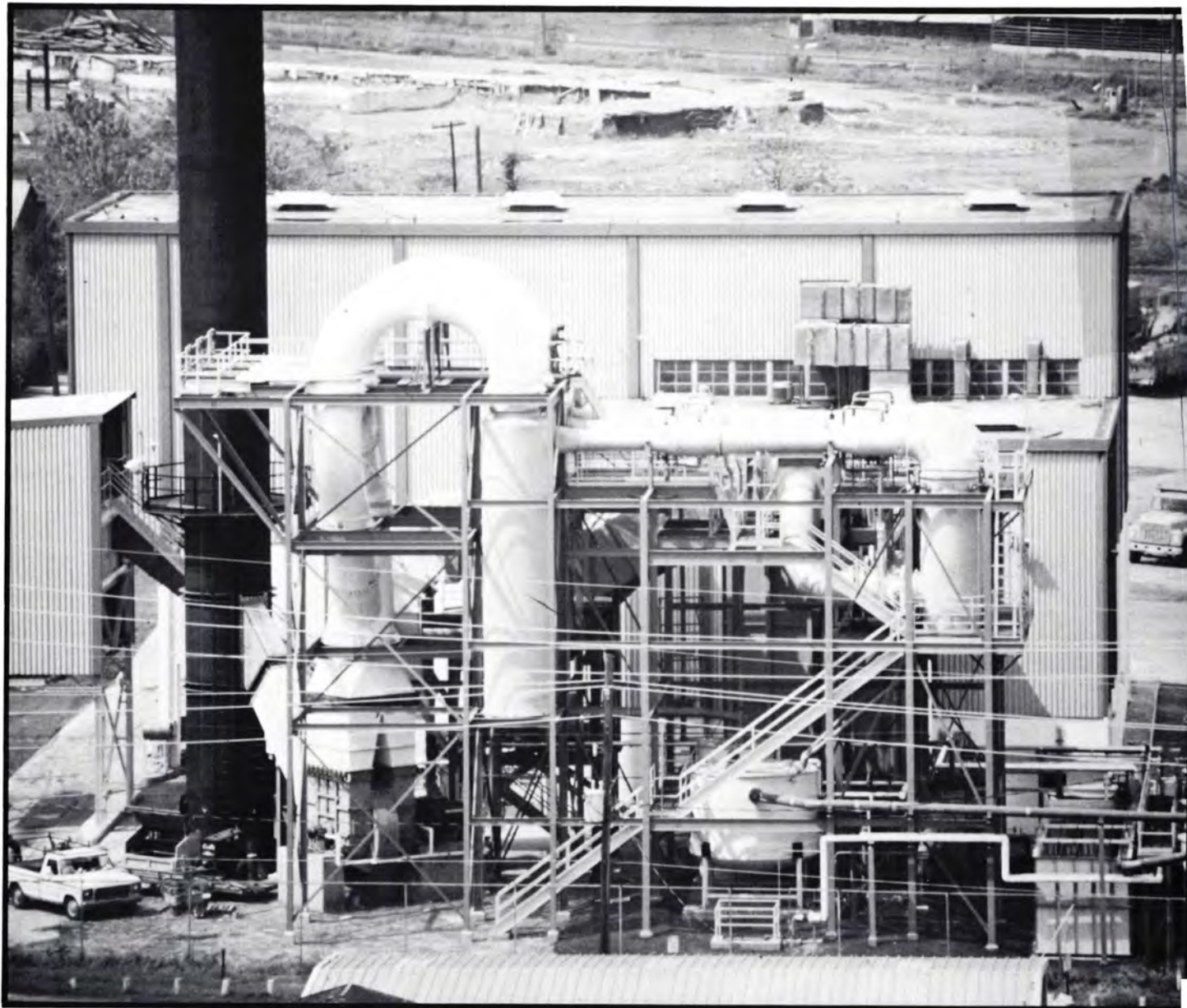
SUPERIOR CASING CREWS, INC.—selecting JWCMC for design & prototype production project

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CREDITS FOR DEMOPULOS & FERGUSON, INC. OUTSTANDING PROJECT—Shreveport, Louisiana
Modifications to the 200 Ton Per Day Incinerator Facility

PROJECT:

Hydro-Sonic Systems
7515 Greenville Avenue-Suite 711
Dallas, Texas 75231
214-691-7000

ENGINEER:

Demopulos & Ferguson, Inc.
600 Petroleum Tower
Shreveport, Louisiana 71101
318-221-7117

SUB CONSULTANTS:

Salvucci Engineers, Inc.
302 Loop 281 East
Longview, Texas 75601

MAJOR SUPPLIERS:

Hydro-Sonic Systems
75715 Greenville Avenue-Suite 711
Dallas, Texas 75231
214-691-7000

ERC/Lancy
A Dart & Kraft Company
525 West New Castle Street
P. O. Box 490
Zelienople, Pennsylvania 16063
412-452-9360

Champion Blower & Forge, Inc.
P. O. Box 72198
Roselle, Illinois 60172
312-529-2060

**DEMOPULOS AND FERGUSON, INC. — MUNICIPAL SOLID WASTE INCINERATOR
AIR POLLUTION CONTROL MODIFICATIONS, CITY OF SHREVEPORT LOUISIANA**

In August, 1976, Demopulos and Ferguson, Inc., Consulting Engineers, were retained by the City of Shreveport to recommend improvements to the municipal incinerator to meet Louisiana Air Control Commission and EPA regulations in particulate emission control, recommend improvements in the operations of the incinerator facility, and examine the potential for resource recovery. The scope of services included Feasibility Studies, Analysis of Test Data, Contract Administration, Engineering Design, Construction Plans and Specifications and Construction Management.

The Shreveport Incinerator plant was originally designed and built in the period between 1968 and 1971 and was characteristic of the combustion system concept developed in the late fifties. The rated capacity is 200 tons per day and except for periods of routine maintenance and planned renovations has been in continuous operation since that time. The plant features a Detroit Stoker reciprocating grate system, overhead crane and gravity feed through a water-cooled charging chute.

Renovations and repairs were undertaken in the summer of 1978 as a result of a study and report of Solid Waste Disposal System Modifications and Expansion prepared by Demopulos and Ferguson, Inc. in March 1977. At a cost of nearly \$425,000, the rapidly deteriorating refractory walls were replaced with an M. H. Detrick silicon carbide sectionally-supported refractory wall system, the air distribution system was upgraded to the best available technology utilizing a turbulent air mixing system to improve combustion, and critical stoker system components were replaced to insure dependable continuous operation.

Demopulos and Ferguson, Inc. also prepared technical specifications for demonstration testing of stack cleaning equipment to reduce the particulate emissions from the Shreveport incinerator. Test data compiled by Hydro-Sonic systems during their pilot

demonstration test was evaluated by Demopulos and Ferguson and subsequently recommended as an acceptable product to the City of Shreveport because of its superior cleaning capabilities and low maintenance.

Authorization to proceed with the preliminary design phase for air pollution control modifications was received in May, 1978. The preliminary report and recommendations, February 1979, contained information which enabled the City to proceed immediately with final plans to control the particulate emissions from the incinerator with the latest technology available. The report outlined combustion train improvements, heat recovery and air pollution control as a total package for improvement. It was at this stage that the potential energy market was identified and the determination made that the existing incinerator furnace, while not intended originally for energy recovery, would lend itself to a boiler system conversion. This concept would also make the necessary air pollution control system improvements less costly to operate. A variety of alternatives were presented with accompanying cost analysis ranging from basic air pollution control equipment operated by an induced draft fan, to complete rehabilitation including a new stoker system, heat recovery boilers and steam driven air pollution control equipment. Due to available funds, the basic alternative was adopted by the City of Shreveport with the intention to completely rehabilitate and add heat recovery in the near future.

Utilizing a systems design approach for each major system, Demopulos and Ferguson proceeded with final plans concentrating on air pollution control equipment. Each system was specified and purchased separately by the City prior to final design to insure interfacing of all systems and equipment. As a result the City was able to pre-purchase over \$1,000,000 in equipment realizing considerable savings in contrac-

tors' mark-up and inflationary trends.

The completed facility includes an innovative gas cleaning system (Hydro-Sonic) never before applied to a municipal solid waste incinerator facility, yet proven in its superior cleaning ability on many severe industrial processes, and a complete waste water treatment and recirculation system unique among any incinerator facility which completely eliminates waste water pollutants.

The air pollution control system consists of three model 1500 tandem fan hydros furnished by Hydro-Sonics, Inc. driven by a 900-horsepower motor and induced draft fan supplies by Champion Blower and Forge, Inc., Chicago, Illinois. With the Hydro-Sonic units, the particulate emissions are reduced from 0.5 grains per standard cubic foot corrected to 12 percent carbon dioxide recorded through the original multi-cyclone dust collector to less than 0.05 grains. This is well below the Louisiana Air Control Commission regulations (0.20) and the nationally accepted EPA requirements (0.08).

The original dust collectors and induced draft fan were left in place as an emergency by-pass which is automatically activated by any one of several sensor devices to protect the integrity of the FRP Hydro-Sonic units and allows normal operations and non-emergency furnace shut-down procedures during any emergency situation in the air cleaning or water treatment systems.

The wastewater treatment and recirculation system provides several levels of treated water to the two-stage gas cleaning system and the incinerator plant which reduces the total level of treatment. The completely treated effluent blow-down to the sanitary sewer system is only 80 gallons per minute which represents a considerable reduction in water consumption.



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CREDITS FOR DOMINGUE, SZABO & ASSOCIATES OUTSTANDING PROJECT—Lafayette General Hospital Addition

PROJECT:

Lafayette General Hospital Addition

OWNER:

Lafayette General Hospital
P.O. Box 52009
Lafayette, LA 70504

ARCHITECTS:

Segura, Beyt & Associates
Hospital Architects
P.O. Box 1300
New Iberia, LA 70560

STRUCTURAL ENGINEERS:

Domingue, Szabo & Associates
P.O. Box 52115
Lafayette, LA 70505
318-232-5182
7417 Jefferson Highway
Baton Rouge, LA 70806
504-927-8309

MECHANICAL ENGINEERS:

Frank Beaulieu & Associates
721 West Congress Street
Lafayette, LA 70501

ELECTRICAL ENGINEERS:

Richard, Gaudet, Poche
114 Toledo Drive
Lafayette, LA 70506

GENERAL CONTRACTOR:

Southern Builders, Inc.
P.O. Box 1815
Shreveport, LA 71166
318-868-2744

MAJOR SUBCONTRACTORS:

Lafayette Steel Erector, Inc.
P.O. Box 266
Scott, LA 70583
318-234-9435
(See ad page 127)
Binnings Construction Co., Inc.
P.O. Box 23361
Harahan, LA 70183
504-733-3860
(See ad page 184)

LAFAYETTE GENERAL HOSPITAL ADDITION

Lafayette, Louisiana

General Project Description

As part of their long term fiscal plant construction, Lafayette General Hospital authorized the design of a ten story nursing wing and a five level parking garage. Segura, Beyt & Associates, Hospital Architects developed a schematic plan of the addition which consisted of expanding an existing one story area, designed initially for expansion upwards, to ten stories and the construction of a parking garage utilizing the first floor to house hospital services such as recovery, general storage, hospital maintenance shop, loading dock, incinerator and waste disposal facilities.

The original Lafayette General Hospital building had been built as ten floors with ancillary care facilities on the first floor and patient rooms on the second through tenth floors. In the original building, a floor to floor dimension of 10'8" had been used in the patient room floors. From the beginning of the project, it was determined that the new addition floors must match the floor elevations of the existing building. The new addition required horizontal duct runs, therefore, clear floor to floor space was at a premium. To add to the difficulties of selecting a structural system, the use of the ground floor of the parking structure as hospital care facilities made the entire parking structure a fire rated building.

In selecting a structural system, the following basic criteria was used:

1. The new hospital wing would be the expansion of an existing single story building constructed of steel composite beams and steel columns.
2. A minimum structural depth must be used to provide maximum ceiling space for mechanical, electrical and HVAC equipment.
3. Provide a fire rated structure which would be open to the weather as a parking facility.

No single structural system could satisfy all of the necessary requirements, but a combination of several systems would. Since the building was adding on to a building with existing steel columns, the decision was made to use steel columns in the hospital wing addition. To keep bending elements as thin as possible, the areas around elevators and stair wells were cross braced with steel members to carry all lateral forces. The structural system which would provide the thinnest slab section was a flat slab or waffle slab. A conventionally reinforced concrete waffle slab using 8"x30" square pans was selected. The pans were omitted over the columns to form a solid shear head and a special shear head design was used to transfer loads from the slab to the steel columns. This system produced a finished structural depth of 11 1/2" with two way spans as large as 32'.

The initial construction contract was for the complete construction of five floors of the hospital addition. However, shortly after construction began, a change order was issued to construct the shell of the hospital wing to its total of ten stories with the interior finishing to be completed as needed by the growth of the hospital.

In the area which connects the new addition to the existing building, steel composite beams and concrete slabs were used to accommodate the connection between a flat concrete slab and the steel frame of the existing building.

The layout of the parking structure required clear spans of 60' with the longitudinal column spacing at 26'6". Structural steel was eliminated in this structure primarily because of fire requirements. If structural steel was used, it would require fire proofing with a mineral type filler spray and then be enclosed to provide an architectural treatment and protection from the elements.

It appeared that the most effective structural system for this facility would be cast in place post tensioned concrete. The finished structural slab was 7" thick with beams at the column lines which were 2'4" in width by a total of 30" in depth. Columns in the parking structure varied from 28"x28" to 36"x36".

Although initially the parking structure is being built as five levels, it is designed to ultimately be ten levels. Precisions were made in the detailing of the structure to permit added floors at a future date, including the removal of the elevator equipment support frames and elevator penthouse roof.

Included in this project were additions to a single story area of the hospital building which was not contiguous to the two main additions. The structural system used in this area consisted of open web steel joists, structural steel beams and columns which matched the structural system in existence. This added yet another type of structural framing system within the limits of one project.

All of the multi-story additions were supported on a foundation of 12" square precast, prestressed concrete pile, 40' long. A total of 960 concrete piling were used on this project. The parking structure was built in a total period of 15 months and was opened for use in March of 1982. The structural elements of the hospital wing will be completed by the end of 1982.

Although none of the structural systems used in this project were unique, the project was a good example of how the combination of various systems can be used to satisfy various design parameters. No single structural system would have been satisfactory for this project. However, with a little imagination and flexibility on the part of the structural engineer a satisfactory combination of systems was achieved.

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900 Industrial Park Drive
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Broadview Station
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50 East Street
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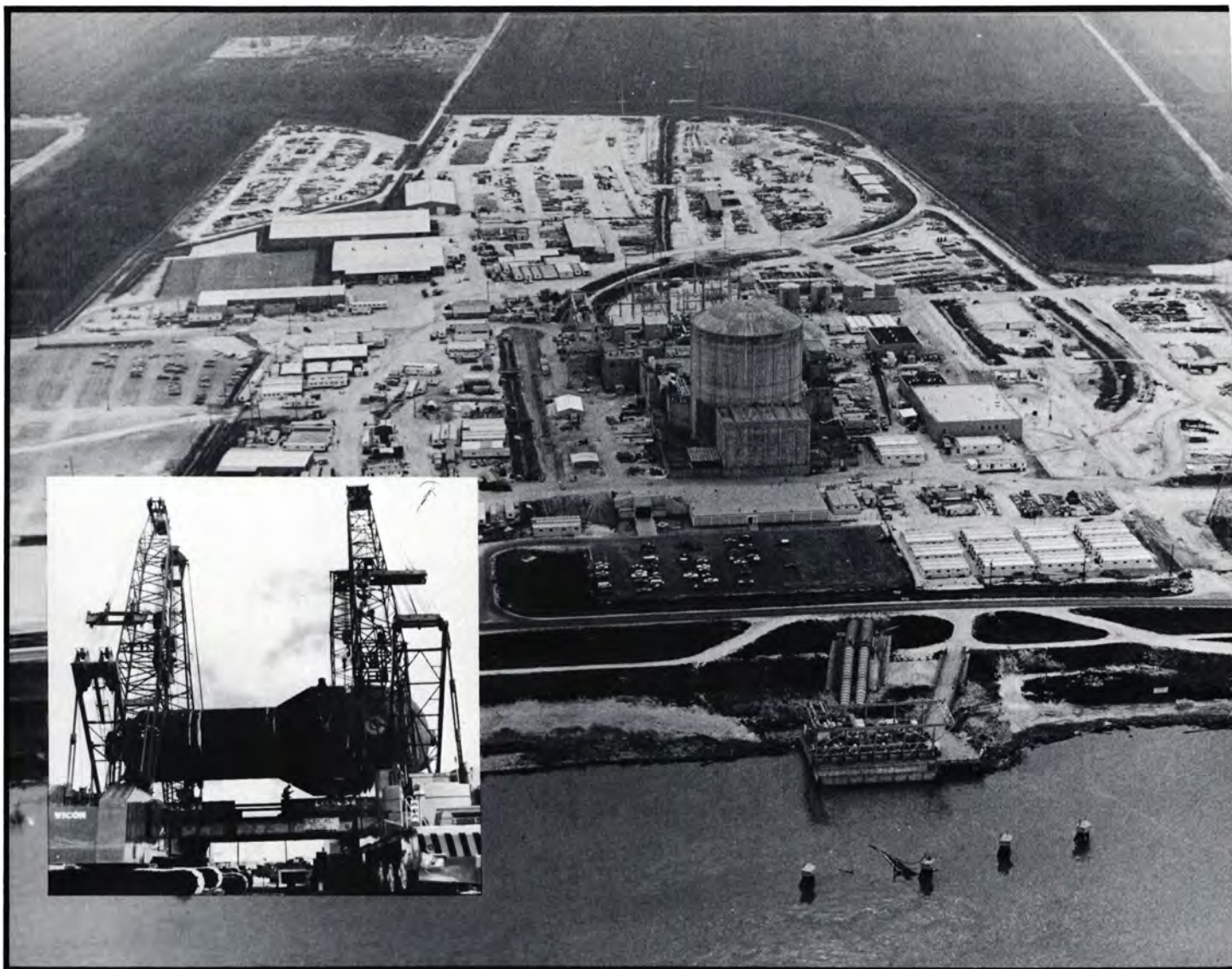
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Suite 209
New Orleans, LA 70123
504-734-0738

Floyd J. Breaux Painting Contractor,
Inc.
323 Beverly Drive
P.O. Box 90072
Lafayette, LA 70509
318-235-8787

Sollay-Baker Foundation Drilling,
Inc.
P.O. Box 751
Jennings, LA 70546
318-824-4821

J. Tom Harrison Company, Inc.
P.O. Box 3450
Shreveport, LA 71103
318-222-7231

Weatherproofing Systems, Inc.
11025 North Harrell's Ferry Road
Baton Rouge, LA 70816
504-272-2500



CREDITS FOR EBASCO SERVICES INCORPORATED OUTSTANDING PROJECT—Waterford SES Unit No. 3

PROJECT:

Waterford SES Unit No. 3

OWNER:

Louisiana Power & Light Company

ENGINEER:

Ebasco Services Incorporated
Two World Trade Center
New York, New York 10048
212-839-1000

MAJOR CONTRACTORS:

Coastal Air Balance
701 Papworth Ave.—Suite 206
Metairie, Louisiana 70005
504-834-4537

Dinon & Associates
Terrazzo & Tile Company, Inc.
109 Industrial Avenue
Jefferson, Louisiana 70121
504-835-8107

GEO Construction Testing, Inc.
P.O. Box 120
Killona, Louisiana 70066
504-783-6156

P.O. Box 650
Hahnville, Louisiana 70057
504-783-2316

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Balancing)

(Installation of
Ceramic Tile)

(Materials Testing)

(Non-Destructive
Testing)

Gulf Engineering Co., Inc.
P.O. Box 51390
New Orleans, Louisiana 70151
504-733-6382

King & Company, Inc.
P.O. Box 50236
New Orleans, Louisiana 70150
504-586-9195

Scaffolding Rental
& Erection Service, Inc.
P.O. Box 1029
Kenner, LA 70063
504-464-9981
(See ad page 103)

The Howard P. Foley Company
5520 Pepsi Street
P.O. Box 23024
Harahan, Louisiana 70183
504-733-8400

(Mechanical
Equipment)

(Installation of
Acoustical Ceiling)

(Supply & Erection
of construction
scaffolding)

(Miscellaneous
Electrical Work)

This 1,104 MW nuclear power plant—the first nuclear project in Louisiana—is located some 25 miles upstream of New Orleans on the west bank of the Mississippi River. Currently in the final stages of construction completion and initial preoperational testing of major process systems, Waterford 3 is being designed and constructed by Ebasco for Louisiana Power and Light Company.

Foundation Design

The floating foundation principle was utilized at Waterford since the bearing material is a clay below thick deposits of loosely consolidated soils. To eliminate differential settlement, all structures critical to safety are supported on a single structural mat 12 feet thick, 270 feet wide and 380 feet long. The combined structure supported on this mat includes the reactor containment building, reactor auxiliary building (with control room, emergency diesel generator and waste treatment areas), wet and dry cooling towers and associated water storage for the "ultimate heat sink," fuel handling building and common foundation structure areas.

Approximately 800,000 cubic yards of wet clay, interspersed with layers of sand and silt, were excavated from 14 feet above to a layer of hard Pleistocene clay 40 feet below mean sea level; entirely without the use of steel sheet piling. Hundreds of well points were placed around the perimeter of the excavation to maintain ground water levels at 3 feet below the final excavation level.

The combined structure is designed to result in pressure to the load-bearing clay equal to or less than that which existed due to the weight of the soil which was removed. Complex analyses were performed in the development of a staged construction schedule to eliminate any overstress of the foundation and maintain mat stability from differential settlement. The actual construction involved a checkerboard pattern of excavation and concrete mat construction in order to minimize heave or uplift of the foundation clay and balance the weight of the structure.

Reactor Containment Erection

One of the principle structures is the reactor containment which is a free-standing cylindrical steel vessel within a cylindrical concrete shield structure. The atmosphere in the annular space between the two structures can be monitored and controlled. The outer concrete shield structure provides biological shielding and also affords missile protection for the inner steel structure.

The outer concrete shield wall was completed in the remarkably short period of three weeks by using slipform construction instead of the traditional "step-form method" of concrete placement. Over 1,700 tons of reinforcing steel, embedded plates, conduit, pipe, grounding cables and anchor bolts were preplaced in the wall, which is 3 feet thick, 197 feet high and has an outside diameter of 154 feet. Concrete was pumped through a 5 inch diameter line, lengthened as required, by the continuously rising slipform. The slipforms were raised through the use of 160 airjacks.

The average climbing rate of the forms was a little over 13 feet per day—an impressive construction feat. This technique enabled early and rapid construction of the shield wall, thus providing a weather barrier and scaffold support for concurrent construction of the free-standing steel containment vessel located within. This was the first large diameter slipform concrete shield wall placed on a continuous basis.

The inner steel containment vessel, constructed of high-strength carbon steel, is 140 feet in diameter and 208 feet high with a dome-shaped head, maintenance hatches and personnel locks. A ring girder attached to the inside of the vessel supports a 200 ton capacity polar crane and over 100 nozzles are provided for piping and electrical penetrations. The vessel is designed to withstand both seismic forces and an internal pressure of 44 pounds per square inch.

Another innovation was the utilization of a "tops-off" approach in constructing the containment vessel to achieve early stress-relieving operation. The dome did not require stress relieving because of its lesser thickness and therefore could be erected later. As a result, civil work within the containment vessel proceeded months earlier than would otherwise have been possible.

Nuclear Steam Supply System Equipment Unloading and Installation

The handling of nuclear steam supply system (NSSS) equipment involved the lifting and transporting of tremendous loads, some exceeding 600 tons, and months of planning and designing specialized equipment was required.

The major NSSS vessels, including the 435 ton reactor vessel, two 630 ton steam generators and the 120 ton pressurizer were supplied by Combustion Engineering and were shipped to the Waterford 3 site via barge in 1976. Off-loading at the Mississippi River barge facility was accomplished with cantilever lifting frame pretested to handle 724 tons. Transportation of these

vessels to the storage yard was by "crawler type" transporter and a multi-tire transporter, which had 276 steel-belted radial tires and a unique transport deck that was self-leveling.

Upon completion of required civil work in the reactor building, another heavy rigging contractor was mobilized to transport the vessels from the storage yard to the reactor containment. Standard lift cranes with special rigging were used to hoist the vessels onto the crawler transporters in the storage yard for transporting to the reactor containment building.

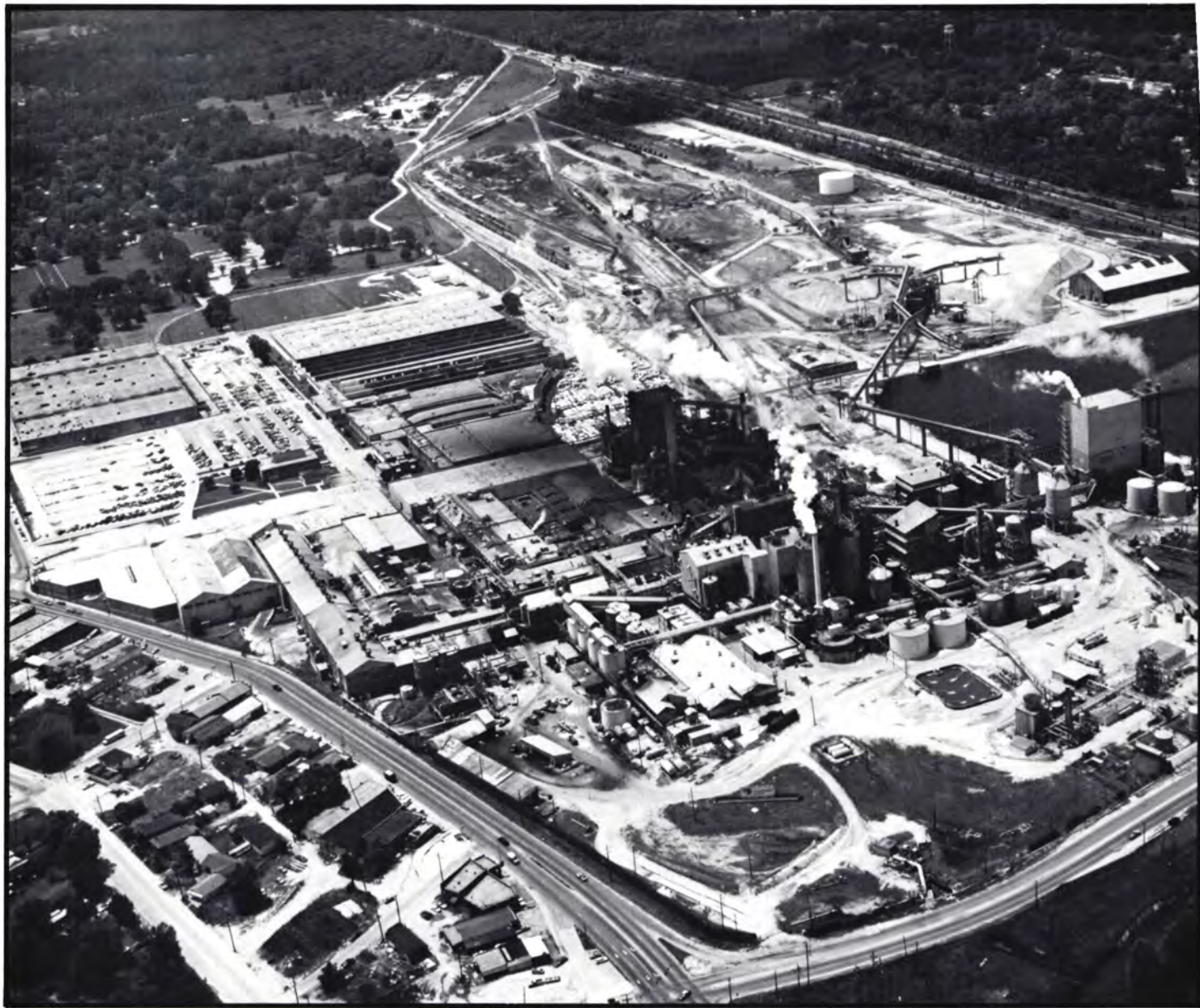
Relocating the NSSS vessels from the storage yard and setting them in their final locations within the reactor building took about four months. Much of the work was performed on an "around the clock" basis, which allowed completion of this critical path work and resumption of other construction activities in the reactor containment building two weeks ahead of schedule.

Fabrication and Setting of Pool Liners

There are four major stainless steel lined pools: the spent fuel pool in the fuel handling building, the condensate storage and the refueling water storage pools in the auxiliary building and the refueling pool in the containment building. The first three were constructed by use of the prefabricated liners as forms. For example, the refueling water storage pool liner with a total weight of 80 tons was prefabricated in two pieces and erected on the building slab using a 150 ton derrick. The other two were erected as one piece prefabricated "boxes". This approach resulted in considerable saving in time and cost over the conventional "wall-paper" method.

Product—Electrical Energy

When Waterford 3 is placed in commercial operation in 1983, it will add 1,104 MWe net to LP&L's generating capacity, an amount sufficient to supply the electricity needs of a city such as New Orleans with a population of about 1 million people. Electricity from the nuclear-fueled Waterford 3 plant will be produced more economically than would otherwise be possible for LP&L, resulting in hundreds of millions of dollars in savings to LP&L consumers over the life of the plant. Each year of operation of Waterford 3 will also represent a meaningful contribution to the national goal of energy self-sufficiency, saving the equivalent of 10 million barrels of oil or 56 billion cubic feet of natural gas.



CREDITS FOR FORD, BACON & DAVIS CONSTRUCTION CORPORATION
OUTSTANDING PROJECT—Crown Zellerbach Mill Recovery Boiler Facility

PROJECT:

Crown Zellerbach Mill Recovery
 Boiler Facility
 Bogalusa, Louisiana

OWNER:

Crown Zellerbach

ENGINEER:

Ford, Bacon & Davis Construction
 Corporation
 3901 Jackson Street
 P. O. Box 1762
 Monroe, Louisiana 71201
 318-388-1530

SUBCONTRACTORS

Asbestos Erectors, Inc.
 120 Interstate North Parkway East
 Suite 154
 Atlanta, Georgia 30339
 404-955-7574

Seal Construction Company, Inc.
 401 Union Avenue—P.O. Box 1200
 Bogalusa, Louisiana 70427
 504-735-5358

Thomas Sheet Metal Company, Inc.
 P. O. Box 246
 Bogalusa, Louisiana 70427
 504-732-9067

In early December, 1980, the Louisiana division of Ford, Bacon & Davis began engineering-construction activities to restore Crown Zellerbach's No. 20 recovery boiler facility, badly damaged by fire two months earlier, at the Bogalusa, Louisiana mill.

The prime objective was to return the 800 T/D black liquor recovery boiler to normal operations as quickly as possible. Although the usual duration of a project of this magnitude is about 25 months, FB&D originally scheduled the project for 17 months. FB&D placed the boiler back in operation almost 4 months ahead of the original 17 month schedule. Budget requirements of the project were met as well.

The success of the early completion was attributed to FB&D's close coordination with the owner and subcontractors, which allowed scheduling activities to progress at an accelerated rate.

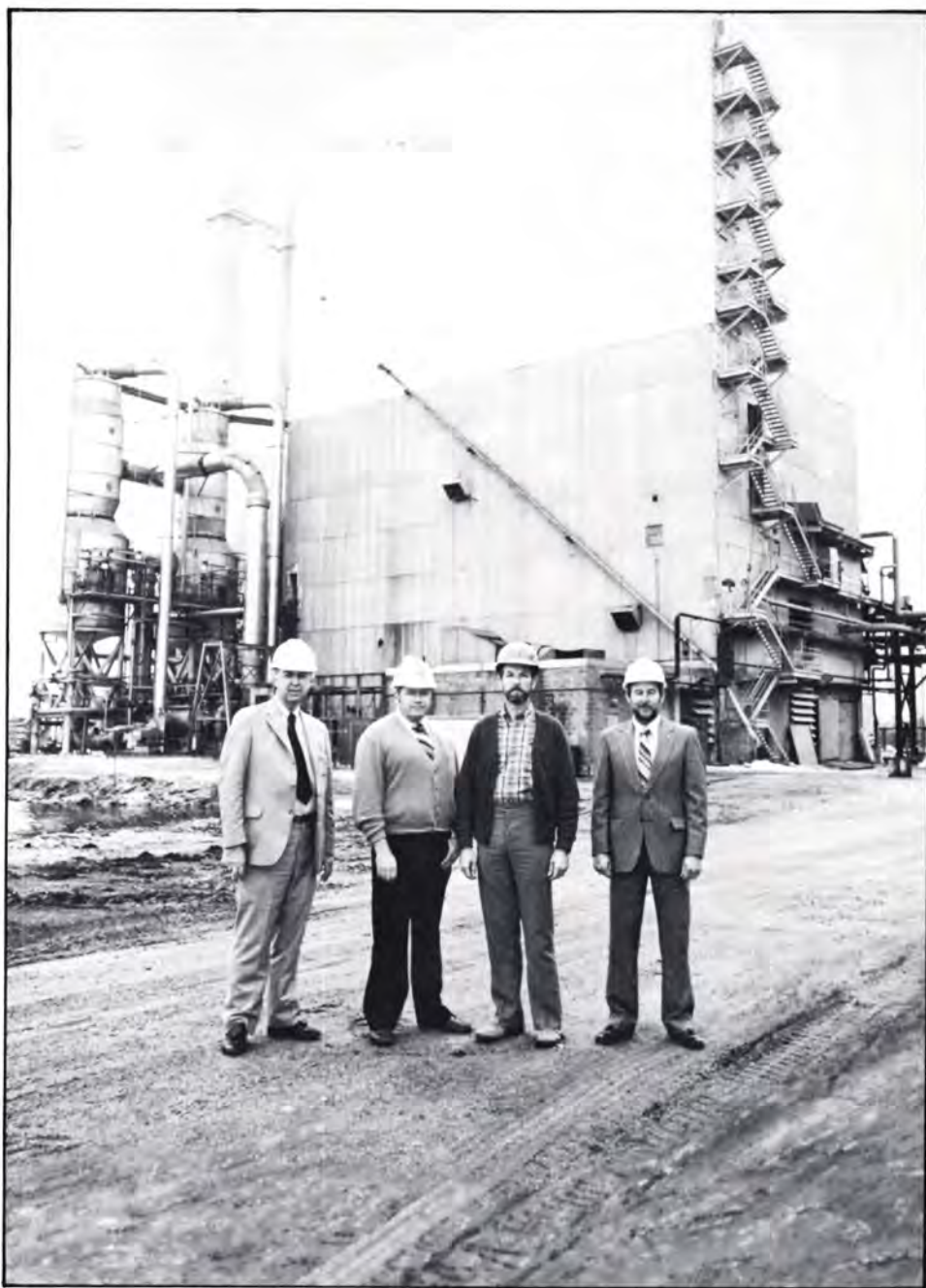
FB&D construction personnel reported that a critical path method of scheduling was utilized to closely monitor the 300 engineering and construction activities required by the project.

At the peak of the restoration efforts, over 150 management subcontract personnel were employed on the project.

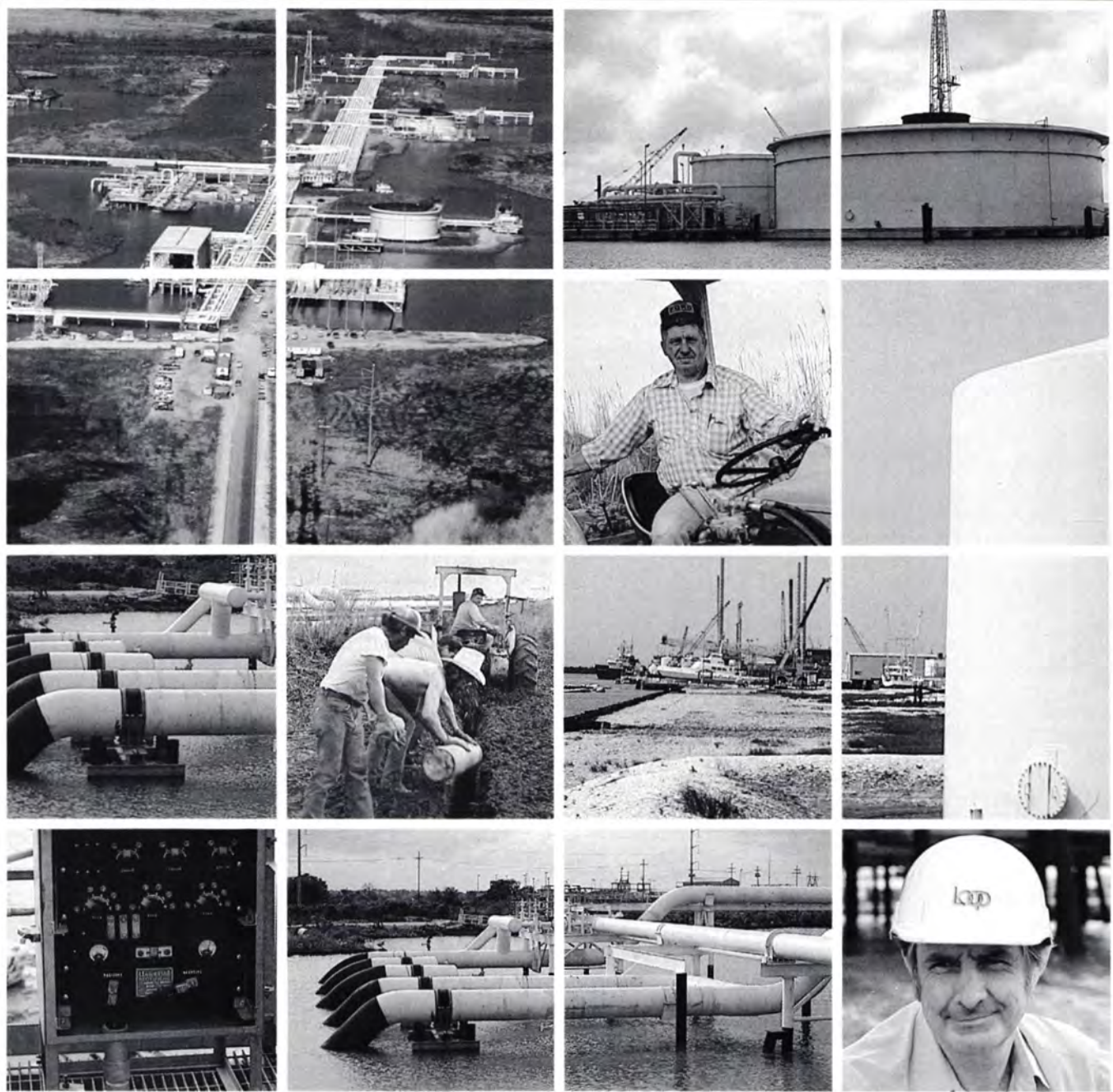
In addition to the services provided for this particular project, FB&D provides a complete range of other services to meet the individual requirements of our industrial power clients. These services range from preliminary feasibility studies through engineering, construction, check-out, start up and operator training.

Energy conservation is a specialty of Ford, Bacon & Davis. We have established a procedure for conducting energy efficiency studies for industrial power generating facilities that has gained widespread popularity throughout the industry.

For more information regarding FB&D and our Industrial Power capabilities, please contact O. L. Miles, Vice President, Business Development, Ford, Bacon & Davis, P.O. Box 1762, Monroe, Louisiana 71201. (318) 388-1530.



HARCO CORPORATION CORROSION ENGINEERS



LOUISIANA OFFSHORE OIL PORT

Facility Owner:
LOOP INC.
P.O. Box 1159
Harvey, LA 70059

Corrosion Engineers:
Harco Corporation
4729 Trenton Street
Metairie, LA 70002

The nation's first unloading terminal for supertankers is open for business as a common carrier transportation facility. Located 19 miles off the Louisiana gulf coast, the terminal will service ships of more than 175,000 deadweight ton capacity which require the 115 foot water depth not available in natural United States' harbors.

LOOP (Louisiana Offshore Oil Port) INC. owns and operates the deepwater port and support facilities which, when in full operation, will be connected with over 30 percent of the nation's refinery capacity through existing pipeline systems.

Five major oil companies own LOOP, which was the first organization to meet federal and state license requirements for building a deepwater port.

Supertankers have been delivering Middle East crude oil to refineries in Europe and Japan during the past 10 years, but until the LOOP facility opened there simply was no U.S. port to accommodate these large ships.

The total LOOP project, when completed, will cost its owners approximately 700 million dollars. The deepwater port, together with its offshore and on shore support facilities, will supply U.S. refineries with oil from Saudi Arabia, Nigeria, Egypt, Qatar, Abu Dhabi, Algeria, Oman and the North Sea.

"Since we can't bring the ship to port in this country, we take our port to the ship," says Bill Read, president of the corporation owned by Ashland Oil Company, Marathon Pipe Line Company, Murphy Oil Corporation, Shell Oil Company and Texaco Incorporated.

How does oil received offshore traverse as far as Chicago and Buffalo?

The oil is first received from supertankers moored at single-point buoys out in the gulf. A submarine pipeline buried three feet below the ocean floor carries the oil to shore by a pumping system which can move up to 100,000 barrels of oil per hour.

Once on shore, the crude oil is pumped 28 miles inland to Clovelly Salt Dome Storage Terminal, after which it is piped to refineries by one of five distributing pipelines connected to the temporary storage area.

The need for corrosion control was an obvious requirement for LOOP's multi-million dollar facilities.

Harco Corporation, an international corrosion engineering firm, was selected to assist in the design and installation of cathodic protection systems on several of LOOP's on shore facilities.

Cathodic protection is the technique of reversing the effects of corrosion, electrically.

Harco engineers, with the cooperation of LOOP Corrosion Engineer Pat Whalen, specially designed cathodic protection systems to protect steel bulkheads, microwave tower piling, building piling, underground water pipelines, tank bottoms and storage cavern casings.

Once the cathodic protection designs were completed and the materials specified, the systems were installed by an experienced Harco construction crew.

These systems have since been energized and adjusted, and are currently operating properly. A post installation potential survey confirmed that the intended facilities have complete protection.

All of the installations were of the impressed current type and a variety of

ground bed designs were utilized.

Air cooled rectifiers were used in unclassified areas, and oil immersed explosion proof units were used in hazardous areas. All of the rectifiers were placed on elevated platforms to protect them from high tides associated with South Louisiana hurricanes.

Harco engineers selected well-type ground beds to protect the sheet pile bulkheads and their anchor systems. Anode holes were drilled approximately three times the depth of the pile tip, into which 4" X 80" UCAR-79 specially treated graphite anodes were placed with metallurgical coke breeze backfill and a vent pipe. All anode leads were terminated in a junction box located over each hole.

Other anode systems consisted of various configurations of high-silicon cast iron (Durco D-51 alloy) anodes in special SPIRA-PAK™ containers filled with backfill material. Durco anodes were simply laid in shallow water at some facility sites. All anode lead-to-header cable splices were made with compression connectors and sealed with epoxy splice kits.

Cathodic protection all but eliminates the risk of environmental pollution resulting from corrosion, reduces the financial problems associated with product loss and minimizes the line maintenance costs, says Ralph Pass, district manager for Harco's New Orleans operation.

"A properly engineered cathodic protection system stops corrosion, extending the life of the pipeline or other facilities. In extremely corrosive environments such as Southern Louisiana, cathodic protection is a wise economic investment," said Pass.

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Civil Engineers

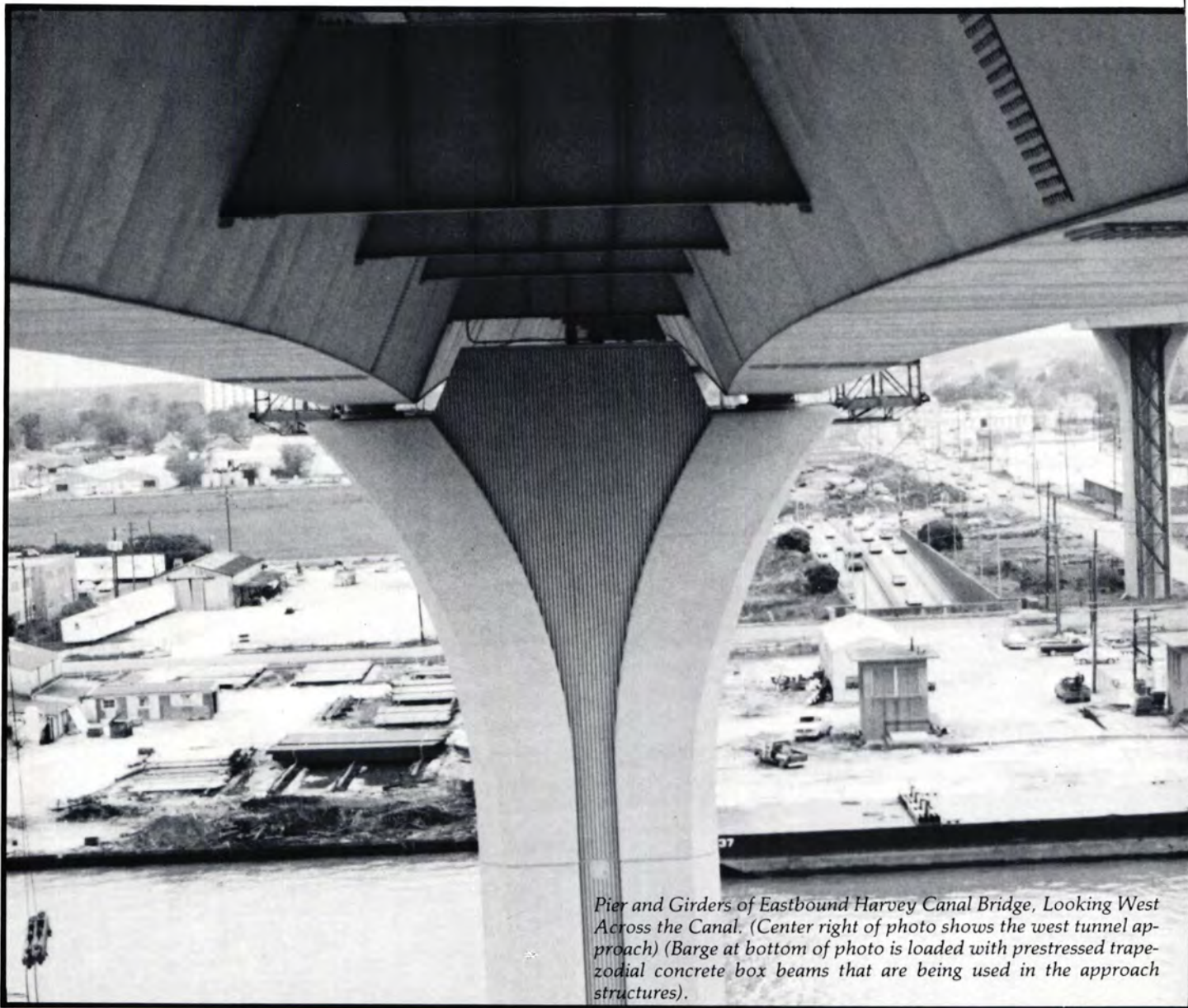
PHONE: (504) 733-4336
5736 Citrus Blvd.
HARAHAN, LA 70123



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PROTECTION, INC.

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SHREVEPORT, LOUISIANA 71108



Pier and Girders of Eastbound Harvey Canal Bridge, Looking West Across the Canal. (Center right of photo shows the west tunnel approach) (Barge at bottom of photo is loaded with prestressed trapezoidal concrete box beams that are being used in the approach structures).

CREDITS FOR HOWARD NEEDLES TAMMEN & BERGENDOFF OUTSTANDING PROJECT—Harvey Canal Bridge

PROJECT:

Harvey Canal Bridge

OWNER:

Louisiana Department of Transportation and Development

ENGINEER:

Howard Needles Tammen & Bergendoff
5615 Corporate Boulevard
Baton Rouge, Louisiana 70808
504-927-4724

SUBCONTRACTOR:

Sun Erection Company
800 Commerce Road East
Suite 114 Elmwood Park
Harahan, Louisiana 70123
504-733-9400
(See ad page 154)

(Erect sequence for Super)

HARVEY CANAL BRIDGE (West Bank Expressway)

Owner

Louisiana Department of Transportation & Development

The Harvey Canal Bridge is an integral part of the ten mile West Bank Expressway improvement, which is located in the metropolitan New Orleans area. The old four-lane at-grade signalized expressway with two-way, two-lane frontage roads on either side, is being upgraded to a six-lane expressway with one-way, three-lane frontage roads, all within the existing 300 foot right of way. The old expressway was connected on either side of the Harvey Canal by a four-lane twin-cell tunnel which carries a prohibition on transportation of flammables and explosives, and with no direct provision for frontage road traffic across the canal.

Additional and/or replacement tunnels were studied as alternates to a high-rise bridge crossing and the HNTB recommendation in their 1974 Engineering Design Report was for elevated twin bridges. With comparatively little cost differential the other advantages of twin bridges included:

1. Continuity of canal and tunnel traffic during bridge construction,
2. Post-construction utilization of the existing tunnels for local frontage road traffic,
3. Elimination of the ban on explosive or flammable truck cargos across the canal in this area,
4. Reduction of maintenance and accident potential, and
5. Compatibility with the elevated expressway approaches.

The Louisiana Department of Transportation and Development selected the bridge alternate, as recommended, opting also for steel box girders in lieu of concrete prestressed/segmental construction which was to be utilized for the remainder of the elevated expressway. The normal elevated expressway twin structure pavements are separated by 40 feet between the inner thru lane edges. Maintaining the integrity of the existing tunnel from interference with the bridge substructure necessitated splaying the bridge alignments to a separation of 162 feet over the center of the canal. Navigational considerations for the heavy industrial and light sea plane traffic on the canal required a vertical clearance of 100 feet over the center 200 foot width of the canal with a 95 foot minimum vertical clearance for each adjacent 50 feet of horizontal width.

The resultant design consists of twin structures of 5 spans (195 feet, 210 feet, 375 feet, 210 feet, 195 feet), each with a total length of 1185 feet. Each structure employs two continuous welded, variable depth, trapezoidal steel box girders with cast-in-place reinforced concrete deck on 0°-30" horizontal curvature and a 3000 foot vertical curve between 5% approach grades. The roadway widths include 3-12 foot lanes, a 10 feet right shoulder and a 6 foot left shoulder, for a curb to curb width of 52 feet.

Originally designed for use of ASTM A-588 steel, the subsequent decision to paint the structure (to match the color of the concrete approach structures), permitted revision of much of the steel to A-572, grade 50.

The substructure consists of sculptured reinforced concrete piers founded on 16 inch diameter concrete filled pipe piles with a design load of 110 tons each.

HNTB Master Plan studies, Criteria Development and Preliminary Designs were started under a November, 1975 design services contract with the LDOTD, and a supplemental agreement in April, 1976 covered final design and construction services. Bids for substructure construction were taken December, 1976 and the superstructure bids were taken in May, 1978. The three-lane, one-way frontage roads in the Harvey Canal approach area have been completed, Expressway traffic has been diverted to the frontage roads and the elevated approach sections are under construction. Upon their completion, and the completion of the bridge signing and lighting (construction plans for the lights and signs are presently being prepared by HNTB), the first usable section of the West Bank Expressway, including the HARVEY CANAL BRIDGE, should be open to traffic in 1984.



Architectural Rendering of Proposed Harvey Canal High Level Bridge Crossing (superimposed on an oblique aerial photo of the canal), as shown in the 1974 Engineering Design Report.

ENGINEER: Intercon Engineers, Inc.
4334 S. Sherwood Forest Boulevard—Suite 175
Baton Rouge, Louisiana 70816
504-292-9580

P.O. Box 45212, Department 399
Baton Rouge, Louisiana 70895

A partial list of areas of technology in which our personnel have had direct engineering and project management experience:

FERTILIZER

Phosphoric Acid
Di Ammonium Phosphate
Triple Super Phosphate
Ammonia

Urea
Ammonium Nitrate
Nitric Acid
Sulfuric Acid

REFINERY

Alkylation
Hydrosulfurization
Crude Distillation
Continuous Coker

Light Ends Recovery
Catalytic Cracking
In-Line Gasoline Blending

PETROCHEMICAL

Phenol
MMT "anti-knock compound"
Ethylene Oxide
Coke Calcining
Aromatics Recovery
Detergent Alcohol
Detergent Alcohol Ethoxylation
Propylene Purification

Toluene Dying
Diene Hydrogenation
Fatty Acid Distillation
Glycerin
Propylene Polymerization
Synthetic Rubber
Hydrazine
Nitrile

INORGANIC CHEMICAL

Caustic/Chlorine
Alumina Reduction
Calcium Chloride

Pharmaceutical
Nickel Processing
Bromine

PULP & PAPER

Kraft Linerboard Mill
Corrugating Medium Mill
Bleached Pulp Mill
Recovery Boiler

Prehydrolyzed Craft Dissolving Pulp Mill
Lime Kiln

ENVIRONMENTAL

Hydrocarbon Emission Collection
Water & Waste Treatment
Vinyl Chloride Vapor Collection and Disposal
Incineration

Waste Heat Boiler
Catalytic Cracking Offgas Scrubbing
Sour Water Stripper
Refuse to Energy Systems

UTILITY/OFFSITES

Air Purification/Drying and
Distribution
Steam Production and Distribution
Relief/Flare Systems
Tankage/Pipe Racks
Boiler Fuel Oil Conversion
Boiler Preheater
Dowtherm Heaters
Fuel Oil
Condensate
Water Purification

Loading Racks
Waste Heat Boilers
Refrigeration
River/Well Water Systems
Inert Gas Supply Systems
Railroads
Plant Roads
Storm/Sanitary Sewer Systems
Primary Electrical Distribution Systems
Air Preheater

MISCELLANEOUS

Dock Design
Floating Dock Design
Gasoline Octane Analyzer Systems
Computerized Gasoline Blending System

Bridge Design
Steel Mills
Tire Manufacturing
Micro Processor Systems

partial list of projects successfully completed or currently underway:

DAP FACILITY—Intercon was involved in the engineering and design of the low voltage and high voltage electrical distribution systems for a "grass roots" DAP Plant.

Alkylation Unit—Pipe stress analysis was performed and modifications to extensive piping systems were made in close coordination with our shop and on-site maintenance forces.

FCC Regenerator—Engineering, design, procurement, shop fabrication and installation of extensive nozzle modifications, as part of a major shutdown, were accomplished on schedule.

LPG Sphere—The engineering and design for a tank gaging system was completed within budget and on schedule.

Slurry Exchangers Bypass—FCCU—Piping and instrumentation design for bypasses around banks of exchangers. Involved design for hot, large diameter chrome piping in a congested area.

HCL Absorption System—Process design including material selection for a new system to absorb HCL in water. Included was examination of the existing improvised system for process improvements and material and equipment which are not suitable for HCL service.

Powerformer Pipe Stress Analysis—Engineering services as required for the preparation of detailed design for pipe stress analysis on selected systems that have caused safety and maintenance problems.

Antifreeze Corrosion Inhibitor Production Facility—Complete engineering services were provided for a grass roots process unit on a "fast track" schedule. Process engineering, equipment selection, piping, civil/structural, electrical and instrument design were also included.

Modifications of Sulfur Plants—Engineering, procurement, and construction services were provided to modify two existing sulfur plants for operation at reduced rates. Client provided basic process engineering and supplied major equipment. Intercon provided detailed process, mechanical, piping, civil/structural, electrical and instrumentation design. Affiliated Turner Investments, Ltd. companies were utilized for construction. Major portion of work involved installation of two rotary, positive displacement air blowers and associated piping, electrical, and instrumentation work.

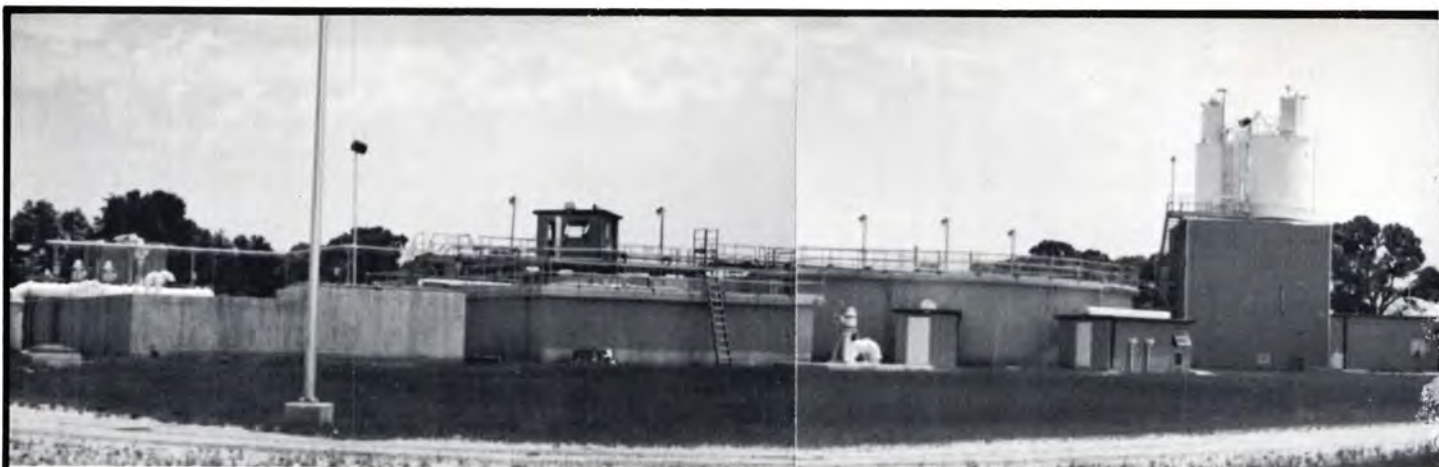
Disposal Well Facilities—Intercon provided detailed process engineering and mechanical, piping, civil/structural, electrical and instrumentation design for facilities to filter and monitor process water to a disposal well. Major equipment included two pressure leaf filter systems, ten pumps, three tanks, two polishing filters, two buildings, and an electrical substation and motor control center.

Nitrile Plant—Total engineering design was provided for a grass roots reactor and batch distillation plant with a "fast track" schedule. Process design, equipment selection and modifications, piping, civil/structural, electrical and instrument design were included.

Air Preheater—Engineering, procurement and construction services were provided for an air preheater installation on a fixed price basis. The project included forced and induced draft fans, air preheater, ductwork, stack, burners, piping, support steel, foundations, piling and electrical and instrument systems.

Intercon's client list:

Allied Chemical
BASF Wyandotte Corporation
Baker Industries Corporation
Crosby Chemicals, Inc.
Exxon Company, USA
Hunt Oil Company
Kaiser Aluminum & Chemical Corporation
Marathon Oil Company
Monsanto Company
Murphy Oil Corporation
Shell Chemical Company
Sylvachem Corporation
Texaco USA
Texas United Chemical Company
Uniroyal, Inc.



ELEVATION OF PLANT—view from west



CREDITS FOR MAY ENGINEERING COMPANY'S OUTSTANDING PROJECT—Lafayette, Louisiana Water Treatment Plant

PROJECT:

Lafayette, Louisiana Water
Treatment Plant

OWNER:

City of Lafayette, Louisiana

ENGINEER:

May Engineering Co.
2361 Hollydale Avenue
Baton Rouge, Louisiana 70808
504-387-5045
3500 W. 75th Street—Suite 301
Prairie Village, Kansas 66208
913-384-6121

GENERAL CONTRACTOR:

Cajun Contractors & Engineers, Inc.
P.O. Box 104
Baton Rouge, Louisiana 70821
504-293-5857
(See ad page 211)

SUBCONTRACTORS:

Doyle Electric Company
15035 Jefferson Highway
Baton Rouge, Louisiana 70816
504-292-5112

Superior Coatings, Inc.
P.O. Box 14696
Baton Rouge, Louisiana 70898
504-293-8484

C. G. Smith & Co., Inc.
P.O. Box 506
Harvey, Louisiana 70059
504-394-4786

(Pile Driving)

Rester Refrigeration Service, Inc. (HVAC)
P.O. Box 64746
Baton Rouge, Louisiana 70896
504-383-1613

Infilco Degremont, Inc. (Treating Equipment)
P.O. Box 29599
Richmond, Virginia 23229
804-281-7600
(See ad page 118)

Stamm-Scheele, Inc. (Water Well Driller)
202 W. Louisiana
P.O. Box 230
Rayne, Louisiana 70578
318-334-3126

Bostic Concrete Co., Inc. (Concrete)
P.O. Box 51205, O.C.S.
Lafayette, Louisiana 70505
318-232-5621

Port Allen Industries, Inc. (Steel Erection)
Highway 190 West
P.O. Box 289
Port Allen, Louisiana 70767
504-383-3342

May Engineering Company was retained by the City of Lafayette, Louisiana, to prepare a state-of-the-art study, master plan and preliminary design for a 32,000,000 gallon per day water treatment plant. Location of the facility is a new 24 acre site in the southwestern fringes of the city. The new facility is across town from their existing water treatment facility, thereby providing a major additional feed into the city's water distribution system. Development of the new plant called for construction in four phases each of 8,000,000 gallons per day of capacity.

Upon adoption of the Master Plan by the City, May Engineering Company prepared the final design and complete plans and specifications for the first 8,000,000 gallon per day phase.

The process chosen by the state-of-the-arts studies includes prechlorination for iron precipitation, high-rate solids contact

clarification after introduction of liquid alum and lime and followed by gravity sand filtration utilizing a Greenleaf type filter.

After filtration the effluent is chlorinated and flows into a 250,000 gallon clear well from which it is pumped into the distribution system by three 3,000 gallon per minute pumps, one of which has a dual drive utilizing either an electric motor or a natural gas engine.

The plant configuration is on the length to accommodate three additional 8,000,000 gallons per day treating units radiating from the operating and control building in accordance with the Master Plan.

Four on-site deep water wells, one of which has a dual drive (electric motor or natural gas engine) feed the plant.

An office building, including a laboratory facility, and a shop and tool building are included in the plant.

Also provided is a 2,000,000 gallon steel ground storage facility with a transfer pump for temporary water storage.

The control building is a two story structure which houses the electrical control room, bulk lime facility, liquid alum facility, chlorine facility and an air conditioned operating and control room with the main control boards and annunciator panels.

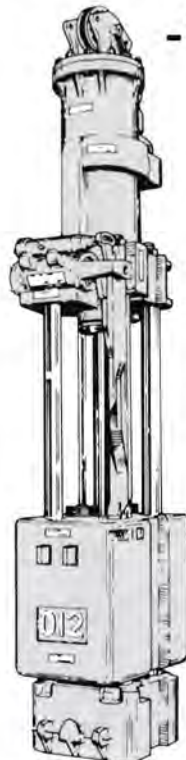
All main treating units and clear well are constructed of reinforced concrete and on piling.

All buildings are steel frame with insulated metal panels.

The facility was completed and placed in operation in the fall of 1981. Distribution pressures in the south Lafayette area are now maintained at acceptable levels since this plant went on stream. Prior to that time, pressures in this area dropped to below 20 psig during peak flow periods.

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CREDITS FOR McCLELLAND ENGINEERS, INC. OUTSTANDING PROJECT—LOOP Brine Storage Reservoir

PROJECT:

LOOP Brine Storage Reservoir

OWNER:

Louisiana Offshore Oil Port (LOOP)

ENGINEER:

McClelland Engineers, Inc.
Geotechnical Consultants
P.O. Box 740010
Houston, Texas 77274
713-772-3700

GENERAL CONTRACTOR:

Potashnick Construction, Inc.
General Contractors
P.O. Box 190
Cape Girardeau, Missouri 63701
314-334-3081
314-846-2822

SUBCONTRACTORS:

ICOS Corporation of America
Four West 58th Street
New York, New York 10019
212-688-9216

(Slurry Wall
Construction)

Lamar Haddox Contractor, Inc.
P.O. Drawer 1408
Farmerville Highway
Ruston, Louisiana 71270
318-255-6202

(Soil-Cement
Stabilization)

Luke Construction Company, Inc.
P.O. Box 2618
Highway 90 East
Houma, Louisiana 70361
504-868-3030

(Hurricane Levee
Constructoin)

Project Description

The Louisiana Offshore Oil Port is the United States' first deep-water port. During the past several years, supertankers, ships of over 175,000-dead-weight-ton capacity, have been delivering crude oil from the world's oil producing areas directly to refineries in Europe, Japan, and elsewhere. The United States, currently importing about 3.8 million barrels of crude oil per day, does not have a single natural harbor to receive supertankers with deep-drafts—some as much as 90 feet. LOOP is the nation's first deepwater port.

The plan for LOOP is that the United States, not having a natural port to berth these supertankers, will bring the port to supertankers via a marine terminal 19 miles offshore. The LOOP system includes 19 miles of offshore pipelines and 28 miles of pipeline through marshland between the shoreline and the Clovelly Salt Dome where the crude oil will be temporarily stored. Through various pipeline systems LOOP is connected to about 25 percent of U.S. refining capacity.

One unique feature of LOOP is its storage facilities onshore. The Clovelly Salt Dome Storage Terminal is used to temporarily store crude oil underground in cavities mined (by solution) out of a salt dome. The onshore terminal consists of a complex of eight caverns, 200 feet in diameter and 700 feet deep, 1,200 feet below the ground surface for receiving crude oil. The caverns have a total capacity of 32 million barrels of crude oil, and the necessary support facilities for a throughput of 1.4 million barrels per day.

Included in these facilities is the 25-million barrel brine storage reservoir designed by McClelland Engineers. The brine is an important feature in the operation of LOOP. The saturated solution of brine is used to displace oil in the storage caverns and prevent collapse of the caverns when the oil is pumped out. The brine storage reservoir consists of an excavation and ring dike about 12 to 15 feet high. The dike is 12,860 feet long and has a net grade of E1 + 12.5 (msl), a crest width of 15 feet, and a base width of about 250 feet, and encloses an excavation below natural ground surface (EL +2 to -1) down to E1 -10. The normal maximum design level of brine is E1 + 8.0, at which elevation the reservoir has an area of about 220 acres and a depth of 18 feet. The dike is protected with 18 inches of soil-cement capable of withstanding 6-foot waves.

Role of Firm

McClelland Engineers (MEI) tackled one of the most challenging assignments of its 35-year history when the firm was engaged as the geotechnical consultant for the Louisiana Offshore Oil Port's (LOOP) 25-million barrel brine storage reservoir. McClelland Engineers was retained by LOOP to assist with the site selection, reservoir design, development of procedures for construction in tidal and marshland areas and manage construction of the reservoir. The brine storage reservoir is an integral part of LOOP's onshore oil storage system. Brine will be used as a medium to displace oil stored in leached caverns created in nearby salt domes. These storage facilities can accommodate 32 million barrels of crude oil.

MEI conducted detailed studies and analyses for the dike and reservoir to determine the stability of the dike and excavation with the reservoir empty or full, leakage from the reservoir, total and differential settlement of the dike, and in the event of hurricane waves.

McClelland Engineers developed a method of construction which made possible construction of the dike and reservoir essentially in the dry on a continuous basis. This was accomplished even though the ground surface was at or below sea level and foundation soils would not support normal earth moving equipment.

McClelland Engineers designed and installed instrumentation to continuously monitor and evaluate performance of the dike during construction giving specific attention to dike stability, settlement, and foundation pore pressure and lateral movement. MEI designed and installed the dewatering systems for the 400-foot by 5,000-foot borrow pit for sand, for dike construction and soil-cement slope protection, below sea level in the marshland.

MEI also provided construction management services for the reservoir including complete quality assurance and inspection of all construction activities and materials, plus monitoring performance of the dike and relief well system around the reservoir until the work was completed.

Client Requirements

- Locate a marshland site for a 220-acre reservoir that can be made watertight.
- Develop a method for constructing the dike and reservoir in marshland in 15 months with assurance of completion on time.

- Dike and excavation to be stable
 - during and at the end of construction
 - with the reservoir full
 - during rapid drawdown
 - during a hurricane
- Without lining the reservoir, brine must not leak into the groundwater.
- Dike to withstand 100 miles per hour winds and waves of 6 feet.
- Insure no rupture or development of sand boils in bottom of reservoir with reservoir empty during a hurricane run-in of 10 feet.
- Dike and spoil to blend into natural environment of area.

Unusual Design Features and Solutions

1. *Dike stability*—unusually weak foundation required wide stability berms; construction rates controlled by monitoring pore pressures in foundations.
2. *Reservoir watertightness*—Installed continuous "engineered" 12,860-foot long slurry cutoff wall 25 to 35 feet deep through dike (shell) core and underlying sand stratum.
3. *Dike flexibility*—Differential dike settlements (up to 3 feet) provided for by using granular dike material and flexible slurry cutoff wall.
4. *Slope protection*—Protected sand and shell dike against 6-foot hurricane waves with soil-cement blanket.
5. *Relief of artesian head*—Excess artesian head in sand stratum beneath reservoir relieved by 60 (gravity) pressure permanent relief wells.
6. *Construction*—Because of non-traversable soft terrain
 - Dug excavation for reservoir and handled spoil with floating equipment.
 - Built dike core of reef shell barged to site and used for road to haul sand fill.
 - Obtained dry sand for dike from 400 by 5,000-foot borrow pit (below sea level) by dewatering with well-points and deep wells.
 - Backfilled slurry trench with specifically designed mix of clay-sand-gravel-bentonite.
 - Completed on schedule.



CREDITS FOR MEYER, MEYER, LACROIX & HIXSON, INC. CONSULTING ENGINEERS & LAND SURVEYORS
OUTSTANDING PROJECT—Louisiana Baptist Convention Conference Center

PROJECT:

Louisiana Baptist Convention
Conference Center

OWNER:

Louisiana Baptist Convention
MacArthur Drive
Alexandria, LA 71301

ENGINEER:

Meyer, Meyer, LaCroix & Hixson, Inc.
P.O. Box 5444
Alexandria, LA 71301
318-448-0888

ARCHITECTURAL

SUB-CONSULTANT:

Brown-Bufkin Associates
3616 MacArthur Drive
Alexandria, LA 71301

The Master Plan of a proposed Conference Center near Alexandria for the Louisiana Baptist Convention is a unique instrument within the private sector in Louisiana. It is unique in that the directive of the Convention was to address the full spectrum of cause/effect relationships between developmental, program and environmental factors to reach a site master plan that achieved the functions desired, but in harmony with the sensitive environment of an existing site.

Meyer, Meyer, LaCroix and Hixson, Inc. was the prime professional selected for the project which involved more than 4,500 man-hours. With Brown-Bufkin Associates

working as subconsultants for architectural programming and space requirements; the plan was developed around analysis of water quality factors, air quality, existing vegetation, soil conditions, wildlife elements, botanical elements, archaeological elements, flow patterns, space and function considerations. These factors were developed in a graphical program to determine interrelationships and were allowed to dictate site location of facilities and overall layout.

This technique of site value analysis proved very effective because soil, topography and environmental conditions were allowed to direct the planning team away

from costly land alteration possibilities and toward more economical land conformity alternatives. Planned program activities and facilities were fitted into the existing land and environment rather than the land and environment being altered to artificially fit these requirements.

The project is in partial implementation with fund raising activities in process. Road rights-of-way have been cut of marketable timber, control fencing has been installed and a water supply well has been constructed.



Master Plan Model — View from Southwest



CREDITS FOR WALDEMAR S. NELSON AND COMPANY, INC. OUTSTANDING PROJECT—International Matex Tank Terminal

PROJECT:

International Matex Tank Terminal

ENGINEER:

Waldemar S. Nelson and Co., Inc.
1200 St. Charles Avenue
New Orleans, LA 70130
504-523-5281

CONTRACTORS:

Orleans Electric Construction
750 Little Farms Avenue
Metairie, LA 70003
504-737-1124

Electrical Contractor

VENDORS:

Emco Wheaton, Inc.
Route 9—Box 606
Gulfport, Mississippi 39503
601-896-5960

Marine Loading
Arms

Lord Corporation
11777 Katy Freeway—#155
Houston, Texas 77079
713-496-1860

Marine Fenders

INTERNATIONAL MATEX TANK TERMINAL

St. Rose, Louisiana

by

WALDEMAR S. NELSON AND COMPANY, INC.

Engineers and Architects

New Orleans, Louisiana

Waldemar S. Nelson and Company was retained by International Matex Tank Terminal in 1976 to upgrade an existing facility at their St. Rose Terminal to allow the accommodation of crude oil tankers and commodity barges. The upgraded facility accommodated six 24" diameter product lines along a pipe bridge, and provided vehicular access to the tanker dock. Four 12" articulated marine loading arms were provided for the rapid unloading of tankers, and four 10" marine loading arms were provided on the barge facility for handling of inbound and outbound commodities. The 1976 expansion of the facility made it possible to simultaneously handle the unloading of crude oil tankers and the loading or unloading of integrated river barge tows at the downstream barge facility. Following design of the marine facilities, engineering assistance was provided during the expansion of the landside facilities wherein additional storage tanks, yard piping, pump stations, and similar terminal revisions were carried out.

In 1977, Waldemar S. Nelson and Company was retained to design a facility for the receipt of a variety of bulk liquid commodities from railroad tank cars which allowed transfer directly to tank storage, to ships or to tanker barges. A key planning and design consideration was the handling of various vegetable and edible oils to avoid contamination with inventories of fuel oils.

Liquid commodities arriving by railroad

cars are diverted to four parallel spur tracks embedded in a heavily reinforced slab covering 1.3 acres. Each spur track extends some 700 feet and can unload 10 tank cars with 70 foot spacings from station to station. Washdown and drainage in the rail car unloading area are facilitated by a gradual slope-to-center design over the slab area.

Two steel, bridge-connected loading racks are set on the inner and outer lengths of the tracks and carry transfer pipes and drops. The drops are height-adjustable to accommodate various tank car sizes. Hoses are used in unloading of tank cars and loading arms for filling tank cars. The pipes on the loading racks feed to a group of pumps for transfer to an existing tank farm having a total capacity of 8.6 million barrels in 132 tanks. Four 8" rotary pumps each having capacities of 660 gallons per minute handle vegetable and edible oils. Two 8" rotary pumps each having capacities of 1,000 gallons per minute handle fuel oils.

In 1978, Waldemar S. Nelson and Company completed planning and design of a second expansion of the marine terminal for International Matex. The dock was designed and constructed for the berthing forces of 80,000 DWT tankers moving at an angle of 10 degrees to the dock and at velocities of one-half foot per second. This new tanker dock is actually an addition to the multi-berth tanker/barge dock designed by Waldemar S. Nelson and Company in 1976, and provides complete tie-ins for the transfer of product between the terminal's two tanker docks.

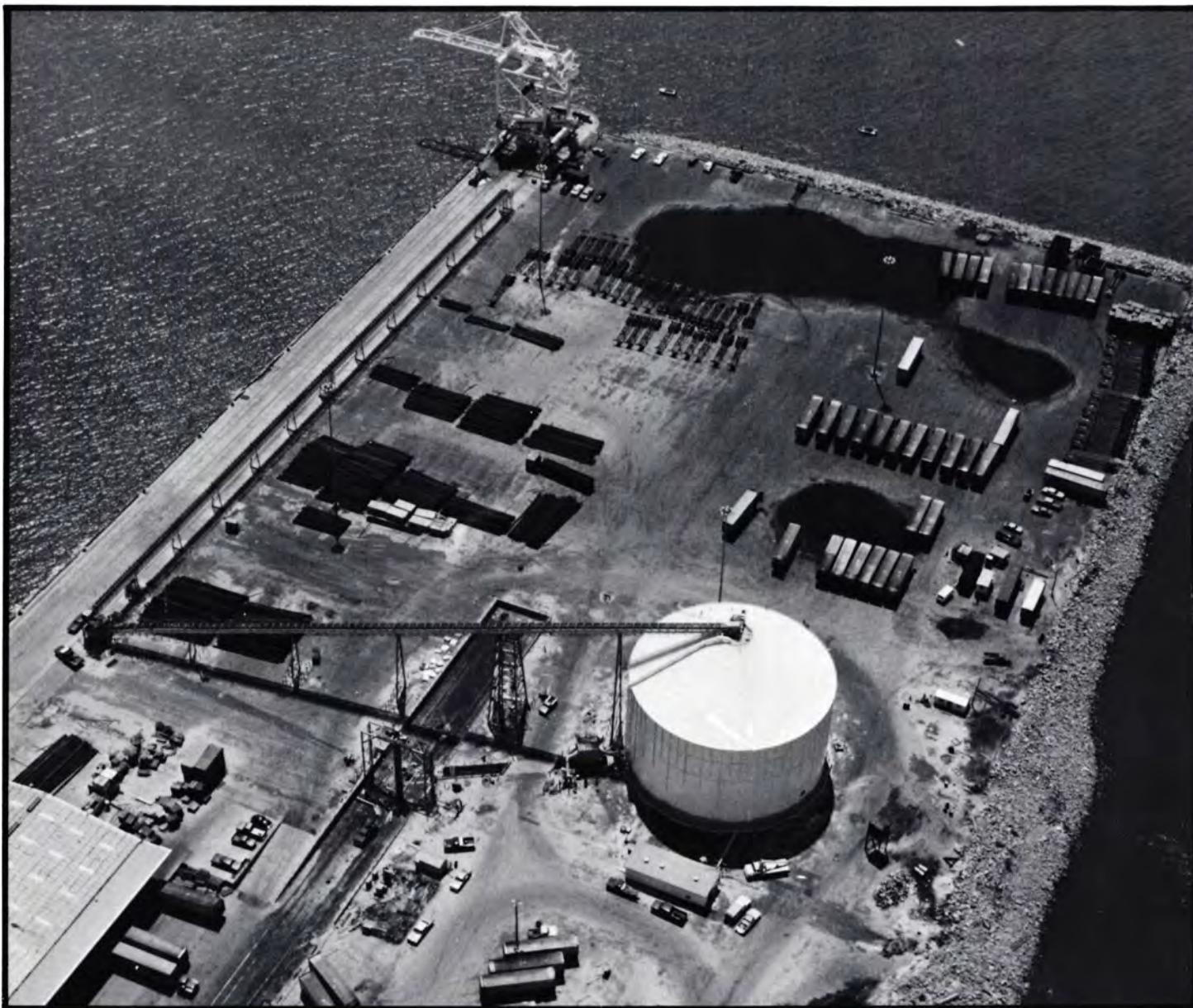
The new facility features power-operated capstans for hauling in mooring hawsers

and quick-release hooks for casting off lines. The 14,250 square foot concrete deck connects with two mooring dolphins upstream and three mooring dolphins downstream and has multiple loading stations, including eight 12" diameter, fully-powered, high-capacity (10,000 bbls/hr.) marine loading arms for crude and/or bunker oil. Eleven other hose handling stations provide a total of 19 separate liquid transfer stations to handle segregated products which range from edible oils to various grades of gasoline to viscous products and chemicals. Products are pumped from the dock to inland storage via some 16 pipelines varying from 8" to 20" diameters. All pipelines are designed to be flexible for thermal expansion and dock deflections. The 20" pipelines are valved with "block and bleed" units to prevent cross-contamination of commodities.

The dock and liquid handling systems were designed to control leaks and spills that could be hazardous to employees, pollute the environment, or result in product loss. Below deck flanges are fitted with drip pans. The deck area is designed to contain leaks and spills as well as rainfall, and convey them ashore for treatment and disposal.

International Matex Tank Terminal is an excellent example of Louisiana engineering talent providing planning and design of a highly efficient river-based facility to serve liquid commodity markets both foreign and domestic.





CREDITS FOR N-Y ASSOCIATES, INC. OUTSTANDING PROJECT—Port of Gulfport

PROJECT:

Bulk Handling and Storage Facility
for Ilmenite Ore
Port of Gulfport, Mississippi

OWNER:

Mississippi State Port Authority

ENGINEER:

N-Y Associates, Inc.
2700 Lake Villa Drive
Metairie, Louisiana 70002
504-885-0500

CONSTRUCTION PARTICIPANTS

W. R. Fairchild Co., Ltd.
P.O. Box 1857
Hattisburg, Mississippi 39401
601-544-1151

Ernest Construction Company
1814 Old Shell Road
Mobile, Alabama 36607
205-476-4470

Driving Test
Piles/Bridge

Driving piles

L. B. Foster Company
127 Honeysuckle Drive
West Monroe, LA 71291
318-396-2064
(See ad page 49)

Prestressed Concrete Products, Inc.
P. O. Drawer 1
Mandevilla, LA 70448

Chicago Bridge & Iron Company
P. O. Box 40066
Houston, TX 77240

Roy Anderson, Jr., Inc.
P. O. Box 2
Gulfport, MS 39501

Professional Construction Services, Inc.
P. O. Box 26245
New Orleans, LA 70186

(Furnishing railroad track)

O'Neal Electric Company
P. O. Box 52
Gulfport, MS 39501

Jackson County Industrial
Contracting, Inc.
P. O. Box 1507
Pascagoula, MS 39567

McHann Builders, Inc.
P. O. Box 229
Edwards, MS 39066

Whiting Corporation
15700 Lathrop Avenue
Harvey, IL 60426

N-Y Associates, Inc. designed a large bulk handling and storage facility for ilmenite ore at the Port of Gulfport, Mississippi for the Mississippi State Port Authority. N-Y Associates, Inc. was also responsible for construction management for the facility including the coordination, management and providing of quality control for thirteen separate contracts. The purpose of the facility is to unload ilmenite ore from ships to storage where it is later outloaded to railroad hopper cars for shipment to the

Delisle, Mississippi plant of the E.I. DuPont DeNumours and Company.

The bulk handling facilities have an input capacity of 1000 metric tons per hour and an output capacity to rail cars of 300 short tons per hour. The multi-purpose ship unloader crane with the installed unloader cantenary can handle 1000 metric tons of ore per hour or 40 foot containers and has a 30 metric ton maximum lift. The design is unique in that it is the first commercial application of the innovative cantenary unloader.

In addition to the cantenary unloader, the various elements of the bulk handling facility are a multi-purpose ship unloader crane, a conveyor system, a steel storage bin with a 50,000 metric ton capacity, a reclaim conveyor and a rail car loading system employing a bucket elevator alternately loading hopper cars on two railroad tracks. The foundation of the steel storage bin consists of 265 precast prestressed concrete piles, 24 inches square and approximately 80 feet in length designed for 300 tons each.

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CREDITS FOR OWEN AND WHITE, INC. OUTSTANDING PROJECT—Hiwassee Utilities Water Treatment Plant

PROJECT:

Hiwassee Utilities Water Treatment
Plant
Charleston, Tennessee

OWNER:

Hiwassee Utilities Commission
Charleston, Tennessee 37310

ENGINEER:

Owen and White, Inc.
Consulting Engineers
9490 Airline Highway
Baton Rouge, Louisiana 70815
504-926-5125

1108 Battlewood Street
Franklin, Tennessee 37064
615-790-9920

CONTRACTORS:

Vickers Construction Company
P.O. Drawer 6338
1010 Cedar Street
Knoxville, Tennessee 37914
615-637-4401

Bush Building Company
111 Bush Road
P. O. Box 17070
Nashville, Tennessee 37217
615-367-2874

APAC-Tennessee, Inc.
Harrison Construction Division
226 Gill Street
P. O. Box 359
Alcoa, Tennessee 37701
615-983-3100

(Raw Water Intake)

(Water Treatment
Plant)

(Installed transmis-
sion mains)

SUBCONTRACTORS:

Pan American Electric, Inc.
2301 Cruzen Avenue
Nashville, Tennessee 37211
615-242-6336

Garland Sherman Company, Inc. (Masonry)
2418 East 14th Street
P. O. Box 3146
Chattanooga, Tennessee 37404
615-624-3313

Infilco Degremont, Inc.
P. O. Box 29599
Richmond, Virginia 23229
804-281-7600
(See ad page 118)

GA Industries
Automatic Valve Specialists
1116 Ridge Avenue
Pittsburgh, Pennsylvania 15233
412-321-5050
(See ad page 126)

HIWASSEE UTILITIES COMMISSION TRIUMPHS

*Two-county water works system
completed well ahead of schedule*

THE HIWASSEE UTILITIES COMMISSION was chartered in April 1972 for the purpose of developing utility services throughout Bradley and McMinn Counties, Tennessee. This area lying along U.S. Highway 11 from just south of Cleveland in Bradley County to north of Athens in McMinn County was designated in 1970 by the Economic Development Administration as a major growth corridor in the Southeast Tennessee Development District, second only in this district to the Chattanooga area as a primary growth center.

Each of the major cities in the two counties was limited in its ability to expand its water supply capacity. Cleveland (1980 population 26,650) had as its main supply an 18" main to the Hiwassee River, this existing capacity being completely utilized. A large spring was used to supplement this supply. In the case of Athens (1980 population 12,000), the local utilities board used a small creek and two springs as the source of water. Water supply was identified as a major deterrent to any significant growth.

While the first goal of the Hiwassee Utilities Commission was to provide water in both counties in large quantities, this is only the first of comprehensive long-range plans which include wastewater treatment and solid waste disposal.

The Commission's first Board of Directors was made up of three citizens appointed by the McMinn County Council and three citizens from the Bradley County Court. Later, the structure of the Board was amended when each county gave up a position to be filled by a representative from the cities of Athens and Cleveland. The Commission quickly established itself as a water wholesaler only and began the task of selecting an engineering firm to determine the feasibility of building and financing a major water system.

Subsequently, the Hiwassee Utilities Commission selected Owen and White, Inc. of Baton Rouge, Louisiana, and Nashville,

Tennessee, as the consulting engineering firm.

The overall water works development project included: (1) a 7.5 mgd water treatment plant; (2) a floating barge intake on the Hiwassee River with a 3,800-foot 24" raw water transmission main connecting the intake to the treatment plant; (3) a 1.75 mgd ground storage reservoir at the plant which interconnects with the plant's 250,000 gallon clear well, giving a total of 2 mg of stored treated water; (4) a 20" treated water transmission main extending from the plant some 6 miles south to Cleveland; (5) a 16" treated water transmission main extending 14 miles north from the plant through Charleston, Calhoun, Riceville and on to Athens; and (6) a 10" transmission main from Athens 3 miles north to Niota.

The innovative water treatment plant design features the first use in Tennessee of the particular equipment for high rate filtration following a special method of pulsating sludge blanket clarification, suitable to the low turbidity raw water characteristics of the Hiwassee River and to the possible initial intermittent mode of plant operation. The major treatment units were selected and designed as a result of extensive investigation and inspections of various types of operating plants. The plant's piping system and hydraulic design are amply sized for doubling the future plant capacity to 15 mgd or more. Bush Building Company was awarded the contract for building the new plant.

Optimum design-life economy to conform with the topographic and system conditions for the nearly 24 miles of 10" through 24" transmission piping resulted in designs and higher than normal operating pressures and flow velocities. All piping materials and components were carefully designed and specified to satisfy burial conditions and dynamic operating pressures of 108-350 psi. Surge pressures are limited to 50 psi by special control valves. Incidentally, in

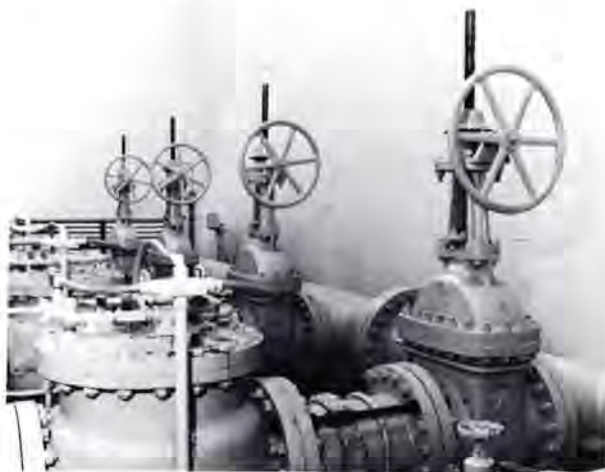
house aerial photography capability facilitated the initial planning and location of these water transition piping.

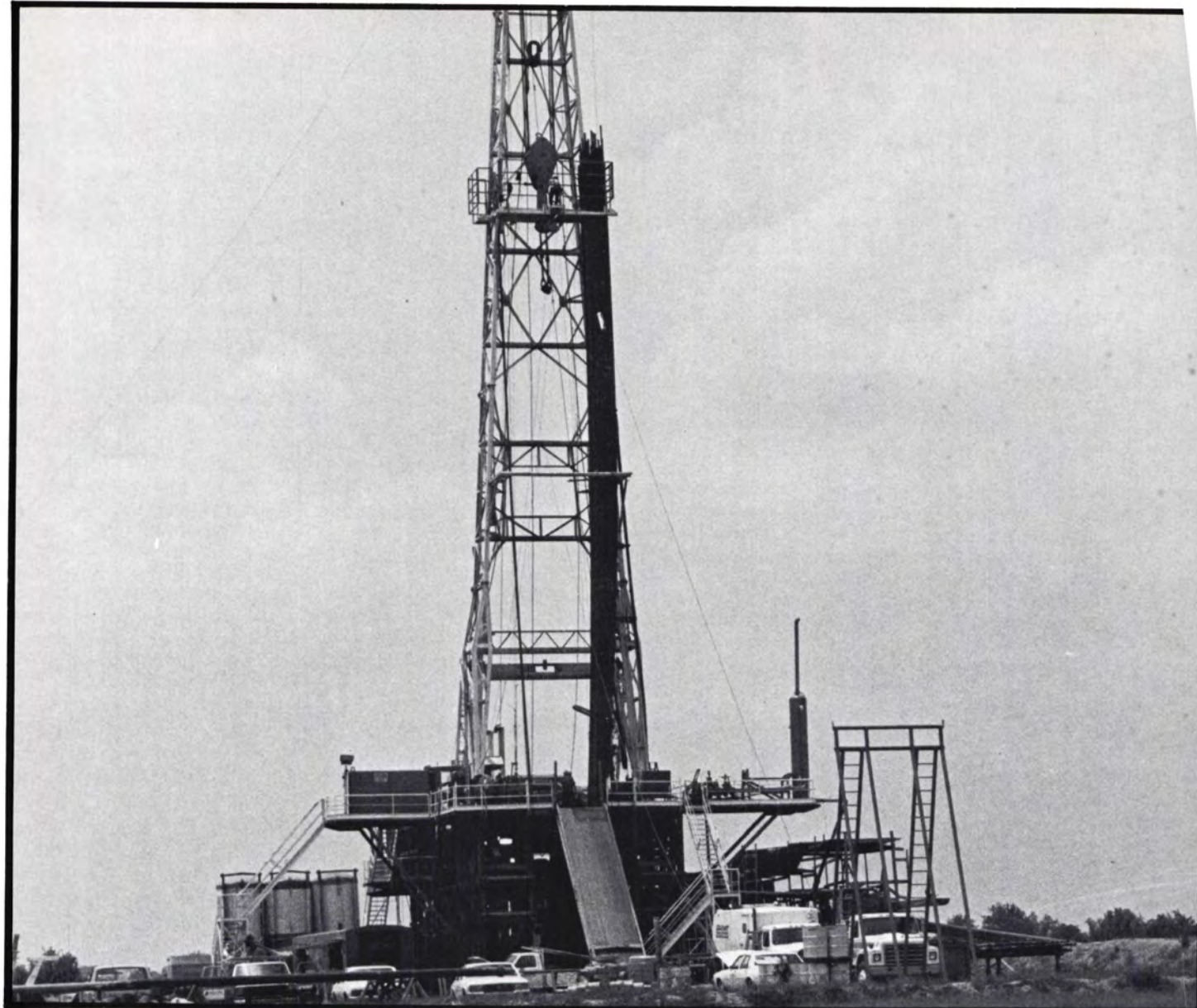
Throughout the project, the design, equipment components and material specifications were reviewed periodically by a Technical Advisory Committee which included, in addition to the consulting engineers, the operating personnel from the utility departments of the cities of Cleveland and Athens. This influenced the design of the plant and system to reflect the needed operational view-point and, thereby, provide a better design.

The consultant helped foster active competition on the project by dividing the transmission system into three separate contracts and providing for separate bid proposals for several types of piping materials or combinations of materials which included ductile iron, lined and coated welded steel, prestressed concrete, asbestos cement, glass fiber reinforced plastic, and polyvinyl-chloride where applicable. Where alternate pipe materials were specified to be bid, the design conditions were equal. The lowest and best bids were received and awarded for all three transmission pipe contracts on the all-ductile iron proposals.

* * * *

The Hiwassee Utilities Commission's project has now been completed and is in service—some six months ahead of the called for completion date. Any project that persevered from April 1972 through three different federal administrations and as many state administrations is indicative of the mammoth job done by the Commission's Board of Directors. Their perseverance and long-range planning combined with sound engineering, skilled installation and highest quality materials assures citizens in this rapidly expanding growth area of ample utility services for many years to come.





CREDITS FOR PETROLEUM ENGINEERS, INC. OUTSTANDING PROJECT—Badger Oil & Gas Corp-Zaunbrecher #1 Well

PROJECT:

Badger Oil & Gas Corp-Zaunbrecher
#1 Well

OWNER:

Badger Oil & Gas Corp.

ENGINEER:

Petroleum Engineers, Inc.
1619 Pinhook Road
P.O. Box 52588
Lafayette, Louisiana 70505
318-233-5346

Petroleum Engineers, Inc. was retained in 1981 to drill and complete the Zaunbrecher #1 to be located in the Southeast Gueydan field. The project required research of the area, design of the well, site preparation, drilling and completing the well within economic limits.

Badger Oil & Gas Corporation, headquartered in Lafayette, Louisiana is competing with other oil and gas companies in the Gueydan area, most of them much larger in size as well as capital. The drilling of a well like the Zaunbrecher #1 is a major task for any oil and gas company. The problems associated with the well can easily put an economic burden on the company.

Petroleum Engineers, Inc. was chosen to drill the Zaunbrecher #1 based on experience in drilling all types of wells, especially deep hot wells in South Louisiana. Their success in drilling can be attributed to: complete analysis of the area to be drilled, to formulate an indepth well program and cost estimate, qualified supervision on the well site, and registered Petroleum Engineers in the office with constant contact with the well site supervisor.

The well was proposed to be drilled to a total depth of 16,500'. The sand to be tested was the Mio-gyp which research indicated would require 17.5 to 17.8 lb./gal. mud weight. The time to drill the well was estimated at 95 days with an estimated cost of \$4,134,778.

Research of the area was based in part on the experience of Petroleum Engineers, Inc. in drilling several wells in the Gueydan area as well as graphing days-depth curves of wells drilled near the proposed location. The research showed that a thief zone exists at 5,600' and would require surface casing to be set above the zone. Formation pressures increase rapidly below the Alliance marker at 11,400' and would require setting of protective casing below this marker. A problem arises at this point. The thief zone at 5,600' would not allow raising the mud weight above ± 10.5 ppg. (Standard drilling practices usually require setting the protective casing in ± 11.0 to ± 13.5 ppg range to achieve as high a fracture gradient as possible depending on the mud weight requirements of the well.) This means the protective casing would be set at a

shallower depth with less fracture pressure than normal, below the Alliance marker but above the Alliance sand.

The next area of concern was in drilling the Sub-Alliance formation. This formation was produced in surrounding wells resulting in a weaker fracture pressure than formations above it. The problem is that drilling below the Sub-Alliance requires heavier mud than the Sub-Alliance can bear and results in fractures, taking mud until the well bore hydrostatic pressure is equal to the fracture pressure. Cement squeezing of the Sub-Alliance with 800 to 1,000' of hole below it can be difficult. It was decided that the Sub-Alliance would be drilled and immediately tested to an equivalent mud weight needed to get to the liner point at 13,500'. If the Sub-Alliance fractured, then the zone would be squeezed until it held the required pressure.

It is important to get a protective liner as deep as possible in order to reduce the amount of smaller hole to drill to total depth, since a small hole is harder to control than a larger one. The well design called for drilling to 13,500', liner point, with 3,000' of hole remaining to be drilled. The liner was required for mud weights expected.

At this point, casing and hole sizes had to be selected. Some operators were drilling with a 16" $\times$ 11-3/4" $\times$ 9-5/8" $\times$ 7" casing program. This program would allow for an additional liner to be set at 15,000' $\pm$ if necessary. However, these casing sized wells were taking many days longer to drill and the costs were at least 25% higher than the smaller 13-3/8" $\times$ 9-5/8" $\times$ 7-5/8" casing program, which was selected based on economics and Petroleum Engineers, Inc.'s success with this casing program.

The Completion was designed for a 7" $\times$ 5-1/2" tapered production string with

parallel strings of 2-3/8" tubing for well control as needed and pumping of corrosion treating fluids while producing. The estimated cost to complete the well was \$2,536,976.

The well was staked, location built and Wilson Brothers Rig #4 moved in. The well was spudded 4/21/81. 13-3/8" surface pipe was set at 5,492' above the thief zone. The well was drilled to 5,750' with no mud loss. The thief zone was tested and squeezed with cement and drilling resumed. 9-5/8" protective casing was set at 11,480' below the Alliance marker as planned.

The well lost returns with 16.5 ppg mud at 12,075'. The formation was squeezed with cement and drilling resumed. Drilling was going so well that at 13,500' it was decided not to set the 7-5/8" liner and to drill ahead until loss of returns occurred. Loss of returns did occur at 13,645', and 7-5/8" drilling liner was set.

The well was deepened to 16,400' with 17.0 lb./gal. mud weight in 94 total days. The cost for drilling was \$2,901,576.

Completion of the well began with setting the 7" $\times$ 5-1/2" production string. Two strings of 2-3/8" tubing were set in a dual bore packer and the well was perforated in the Mio-gyp sands. Initial test rate was 4.9 million cubic feet of gas per day. The completion cost was \$1,537,366.

This well was designed, drilled and completed well within the estimated time and cost estimate. Problems that occurred were handled as swiftly as possible with the result that Badger Oil & Gas drilled and completed a major gas well with a minimum of expenditure.

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CREDITS FOR PYBURN & ODOM, INC. OUTSTANDING PROJECT—Georgia-Pacific Dock Facility

PROJECT:

Georgia-Pacific Dock Facility
Plaquemine, Louisiana

OWNER:

Georgia-Pacific Corporation

ENGINEER:

Pyburn & Odom, Inc.
P.O. Box 267
Baton Rouge, Louisiana 70821
504-766-6330

GEORGIA-PACIFIC DOCK FACILITY - PLAQUEMINE, LOUISIANA

In 1966, Pyburn & Odom, Inc., Consulting Engineers, was selected by Georgia-Pacific Corporation to prepare comprehensive studies of sites on the Lower Mississippi River suitable for the construction of a large chemical complex. Site requirements included substantial acreage (for both the proposed project and future expansion), and of equal importance, sufficient deep-water river frontage to accommodate dock facilities for ocean-going vessels and river barges. P&O was chosen to perform the studies because of its extensive knowledge of the Mississippi River and also because of its experience in designing riverfront facilities. The studies required the surveying of alternate sites, hydrographic surveying, soils investigations, collecting flood and hurricane data and reviewing potamology data in the P&O files and the files of the U.S. Army Corps of Engineers and other federal and state agencies.

One of the sites recommended by P&O, Rebecca Plantation on the west bank of the Mississippi River below Plaquemine, Louisiana, was subsequently selected and Pyburn & Odom chosen to study the suitability of various types of dock facilities for the location. Ultimately, P&O was given the assignment to design a 35,000 DWT

ship-mooring and unloading facility.

Dock construction on any major river requires extensive knowledge of river hydrology and potamology, including the variables and vagaries of high and low water conditions, stream flows and deposition and erosion characteristics. This is especially true of the Mississippi River with its powerful currents, large fluctuations in water levels and its heavy traffic. The type dock finally selected for the Rebecca site was a pipe-pile structure with two special features: there was to be no separate fender system to absorb the docking impact, and it would be of modular construction with all major structural components fabricated off-site.

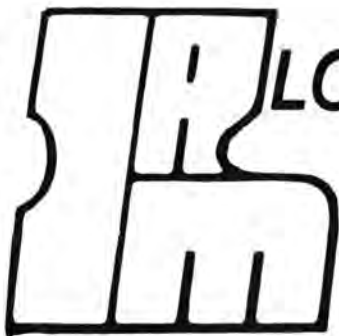
The decision to eliminate the separate fender system in effect turned the whole dock into an impact-absorbing unit, one with immensely more strength than a normal fender system. The whole structure was designed to "give" upon impact, and flexible couplings joined the pipeline and catwalks from the levee to the dock. The design has since proved itself: in more than a decade of heavy use the dock has never been damaged as a result of docking procedures.

The modular construction design made

possible the prefabrication of entire sections of the dock in off-site plants. The procedure was faster and less costly than attempting to fabricate components in the congested levee area at the Rebecca site. When the sections were completed and river conditions judged right, the prefabricated units were barged to the site, lifted into position and welded to the precisely-driven pipe-piles.

This was a key operational consideration. Because each pipe-pile was to be joined to the superstructure by a single weld, the weld needed to be made as low as possible for maximum strength. This in turn required special knowledge and feeling for water conditions, for if the river covered the piles before the welds could be made, the entire project would be delayed for months until the water subsided.

The welding of the superstructure and piles went off without a hitch and the dock project was completed on time. Pyburn & Odom went on to design drainage for the Rebecca site, a railroad spur and wastewater and river-outfall systems. When Georgia-Pacific decided to add a second dock three years later, it again selected P&O to design the project.



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CREDITS FOR THE RBA GROUP OUTSTANDING PROJECT—Atlanta Galleria

PROJECT:

Atlanta Galleria — Atlanta, Georgia

OWNER:

Trammell Crow Co.
100 Galleria Parkway N.W.
Suite 1000
Atlanta, Georgia 30339

ENGINEER:

The Atlanta Office
The RBA Group
1389 Peachtree St. N.E.
Suite 200
Atlanta, Georgia 30309
(404) 881-6266

RBA/TPA, professional design and planning consultants, was selected in 1980 to provide design services for Atlanta Galleria, a mixed-use complex under development by the Trammell Crow Company of Dallas, Texas.

Atlanta Galleria is a unique blend of office space, shopping, hotel and restaurant uses within a 71-acre site. RBA/TPA has provided a variety of design services including a master grading and drainage plan, a master utilities plan, a master traffic plan, site engineering for Building 1, and a traffic circulation plan for internal roadways.

The site is well located in what is popularly known as the "South Cobb Gateway" referring to the Interstate 75 entry into Cobb County, Georgia. About 15 miles from downtown Atlanta, it is in a rapidly expanding suburban subcenter. Within a one-mile radius there are four major office parks, a regional shopping center and a wealth of other rapidly growing land uses.

While well located, the site posed difficult development problems. The terrain was rough and required 1,300,000 cubic yards of earth to be moved to "bench" the site for development. Much of the excavated material was actually rock, necessitating selection of methods to economically handle rock. Secondly, while there were two interstate highways adjacent to the property, neither provided direct access to the site. A detailed traffic analysis was performed to determine the most economical way to provide traffic access for a complex that would generate 40,000 vehicular trips per day.

There were major drainage problems due to the severe topography and the lack of space for detention of the runoff. An existing major drainageway was relocated to provide space for detention and a dam and spillway were built to provide the necessary storage.

The internal road network was designed to serve the composite generation of traffic from several uses. This required concentrating traffic on a major internal four-lane roadway system and coordinating this system with five major external intersections which in turn were coordinated with major access points for an existing regional shopping and a community shopping center located on adjacent lands. All of the external intersections are multi-lane and controlled by an interconnected signal system.

Extensive widening was required on the adjacent arterial roadways, Cobb Parkway and Akers Mill Road, due to the anticipated traffic generated by the project. The design team provided estimates of traffic to serve as a basis for design, design of the roadways and coordination with county officials on the road construction program. The actual road improvements are jointly implemented by Cobb County and Trammell Crow Company.

The project was conceived as a mixed-use development by Trammell Crow Company. Therefore, a method of interconnecting the various elements—office, retail, and hotel—had to be devised. A \$1,000,000 linear park extending from the front of the hotel and between the six office buildings provides this vital pedestrian link. The five-acre park is landscaped extensively and

walkways are paved with brick. Fountains, statuary and trees are a part of the park landscape.

Building 1, the first office building, now complete, is an example of the office buildings to come. Designed by Smallwood, Reynolds, Stewart and Stewart, the buildings will be finished in Travertine marble and silver reflective glass. The glass is energy efficient allowing only eight percent of the sun's rays to enter the building. Civil and site work for the buildings was provided by RBA/TPA in association with the architects. Building 1 is 18 stories with a total of 432,000 s.f. gross floor area. This is typical of the other office towers to follow.

The retail mall, also designed by Smallwood, Reynolds, Stewart and Stewart is now under construction by Batson-Cook Company. The mall will be 250,000 s.f. in size and will be 2 stories with an atrium. The retail mall is connected to the hotel and will provide a continuous roof over the atrium.

Parking for the office uses, hotel and retail are shared. A total of 3,500 spaces is planned with a majority of these spaces being in two- and three-level decks. A unique feature of the grading and building plans allows direct entry into several levels of each building from each parking level. This results in the maximum convenience to the office worker or shopper. Access to individual parking levels is provided to multiple roadways resulting in the maximum convenience for access/egress.



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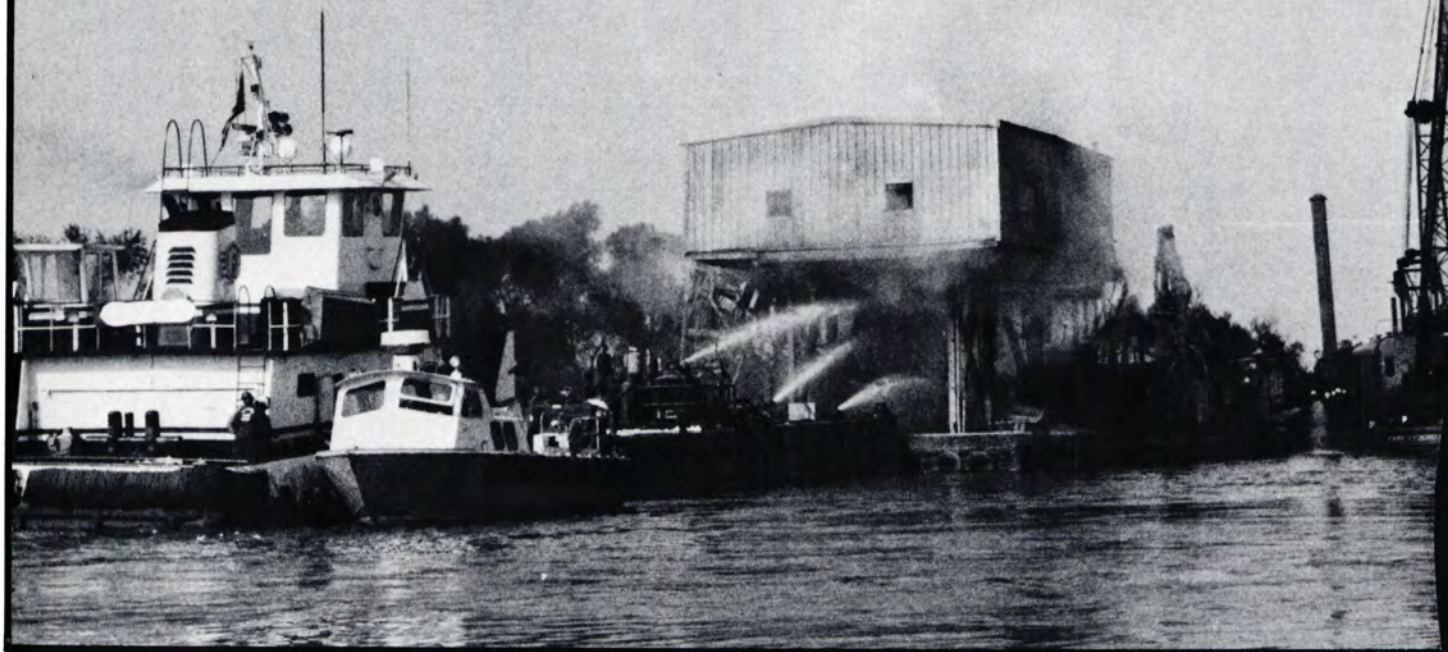


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CREDITS FOR STEIMLE & ASSOCIATES, INC. OUTSTANDING PROJECT—Production Well Blowout—Southern Louisiana

PROJECT:

Production Well Blowout—
Southern Louisiana

ENGINEER:

Steimle & Associates, Inc.
P.O. Box 865
Metairie, Louisiana 70004
504-831-2574

In the fall of 1980, Steimle and Associates, environmental consultants, were called in to monitor the environmental impact of a gas well blowout (with condensate) located in the wetlands of southern Louisiana as part of the spill monitoring plan of a major oil company. The environmental monitoring program was aimed at detecting significant changes in water quality and the effect of the blowout on aquatic life in the canals, bayous, bays and wetlands near the well and the biological resources of the wetlands. Within a short time following notification, biologists, a hydrologist and an environmental engineer along with their specialized equipment, instrumentation, and supplies were enroute to the scene.

Appropriate measurements, sampling analyses and monitoring were undertaken throughout and following the period of spillage. This work was performed in order to clearly delineate the limits of damage (if any) to the environment done as a result of the spill. It was also done to detect discharges by others who may be taking advantage of the spill condition to dispose of unwanted oily materials.

Some of the samples taken were analyzed and others were cataloged and preserved for future analysis or more extensive analyses (including fingerprinting) as the needs dictate. This procedure enables further analysis based on an overview of the total situation and also minimizes analyses costs without creating a dearth of data.

In this particular spill it was found that another operator was discharging oily fluids prior to departure from a drilling location. The effects and spread of this discharge were carefully monitored and the discharged material fingerprinted to differentiate it from the condensate discharged as a result of the blowout. In this manner the client could not be held responsible for damage done by others.

The results of the spill monitoring and subsequent post spill monitoring indicated no long term effects on aquatic resources and vegetation as well as other marsh resources in the affected area.

It must be noted that the primary purpose of these surveys is to protect the client so that he is not erroneously or falsely held responsible by regulators or claimants for environmental effects that may not be his responsibility. This being the case, it is important that some of these studies be done at the time of, or shortly after the spill. This is done to develop a background of data under the actual spill conditions even though regulatory actions and damage claims may not occur until many months after the occurrence. At a later date when actions are taken or claims made, some of the most important data to the defense of the client will not be available.

As a result of some spills, there have been significant damages to area resources. In such cases, studies of the resources have been performed to document those damages caused by the spill as differenti-

ated from those damages caused by natural occurrences or forces other than the spill in question. In this manner the liability is limited to the true damage. Such investigations have included, for example, oyster damage surveys.

The firm has performed numerous oyster damage surveys resulting from spills (as well as groundings, etc.). Such studies are varied depending on the situations involved but they can include oyster production studies, disease surveys, benthic surveys, formal taste testing (if tainting is a problem) and mortality studies (if mortality is a problem or, as is often the case, is just claimed but not substantiated). In many spill conditions oyster mortality is not a factor since oysters are usually afforded some degree of protection by the water above them.

This job is only one of many such monitorings of spills resulting from blowouts, pipeline breaks, etc., where the firm has monitored for environmental effects. In order to perform this type of work the firm maintains vessels, equipment, and supplies in a response ready state to react rapidly to a spill occurrence, as it is important to the client's interest to begin monitoring as soon as possible following the spill.



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Louisiana Offshore Oil Port, Onshore Terminal Facilities**

PROJECT:

Louisiana Offshore Oil Port,
Onshore Terminal Facilities

OWNER:

LOOP INC.

ENGINEER:

Walk, Haydel & Associates, Inc.
600 Carondelet Street
New Orleans, Louisiana 70130
504-586-8111

CONTRACTORS:

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New Orleans, Louisiana 70178
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LOUISIANA OFFSHORE OIL PORT ONSHORE TERMINAL FACILITIES

The Louisiana Offshore Oil Port, Onshore Terminal Facilities, designed by Walk, Haydel & Associates, Inc. is a first of its kind facility in the United States capable of handling, storing, and shipping oil flowing in from supertankers anchored in the Gulf of Mexico at a rate of 100,000 barrels per hour.

Before the LOOP project, there were no ports in this country capable of handling modern supertankers, some of which draw in excess of 90 feet of water. Supertankers had to first unload their cargo of crude oil into barges or smaller ships which could then make their way into American ports. To eliminate this unnecessary and costly step, a consortium of oil companies formed LOOP INC., to allow supertankers to unload their cargo directly to a storage and transfer facility in this country.

Walk, Haydel & Associates, Inc. a Louisiana owned and operated consulting engineering and construction management firm, began work on the LOOP project in 1973, providing feasibility studies, estimates, and assistance in licensing and permitting. Walk, Haydel worked closely with the owners and federal and state legislators to secure the passage of legislation necessary to allow construction to begin.

After LOOP INC., accepted the federal license requirements in 1977, Walk, Haydel began working on the heart of the onshore system—the Onshore Terminal Facility. Walk, Haydel & Associates provided total management services on over \$130 mm worth of facilities. Management services provided included overall project management, detail design, procurement, scheduling, cost control and accounting, estimating, environmental and other permit agency liaison, contract administration, construction management and quality control for fabrication and construction.

The Onshore Terminal Facilities are located at the Clovelly Salt Dome, near Galliano, Louisiana. As the oil reaches the Dome area, after flowing through nearly 50 miles of 48 inch pipe, it is completely under the control of a single operator, who has a choice of diverting any or all of the flow to any one of eight different salt dome storage cavities, or the oil can be shipped out through any combination of five crude oil lines, one of which feeds to the Capline system at St. James, Louisiana, connecting LOOP with 25% of this country's refining capacity.

A major problem facing Walk, Haydel in the design of the Onshore Terminal Facilities was the marshland location. Both logistical access and construction by overwater techniques were required, a factor that had to be considered during every element of the design phase. Major systems were built offsite on production skids and shipped to the site by barge. Then, these huge platforms were set into position by barge-mounted cranes. This greatly reduced the amount of fabrication required at the job site, increasing quality control while decreasing cost.

Another innovative feature of the Terminal is the support system for the pipe. To cope with the expansion and contraction of long runs of 48" pipe, Walk, Haydel utilized teflon shoes to reduce friction, reducing the lateral loads on the mounting rack and reducing the required batter piles by a 5 to 1 ratio.

Although salt domes have been used for oil storage before, the Onshore Terminal Facility marks the first application of salt domes for constant, high, in-and-out flow rates. Because some unsaturated brine may be pumped into the cavity during emptying operations, leaching may be expected to continue. To allow for this, the overall cavity layout was designed to allow indi-

vidual cavities to increase in size from about 3.5 mm barrels to as much as 5 mm barrels without any adverse affects. Each cavern is approximately 190 feet in diameter and 1,000 feet in height with the top of the cavern located, 1,500 feet below the surface.

The facilities were designed by Walk, Haydel with an eye to expansion. At present, throughput capacity is 1.4 mm barrels per day, with five cavities available for oil storage. Walk, Haydel's design would allow possible future expansion to 3.4 mm barrels per day throughput with fourteen cavities available. Outgoing pipelines can be increased from the present five to a total of eight.

The facilities were designed with several other factors in mind. Because of the threat of hurricanes the structures were designed to withstand 166 mile per hour winds, ten foot tides plus six foot waves. Power outages will reduce the flow but the system can continue in operation at reduced capacity using offshore pumps. And the underground storage minimizes any risk to the environment due to oil spills.

Another feature to assure continual smooth operation is the cavity switching system. Cavity switching can be accomplished by a single dispatcher working in the Walk, Haydel designed Operations Center. Switching can take place without interrupting either the tanker unloading operation or the connecting pipeline delivery operation. This covers 46 possible hydraulic condition combinations with a maximum pressure differential of to 457 psig between cavities at the time of a switch.



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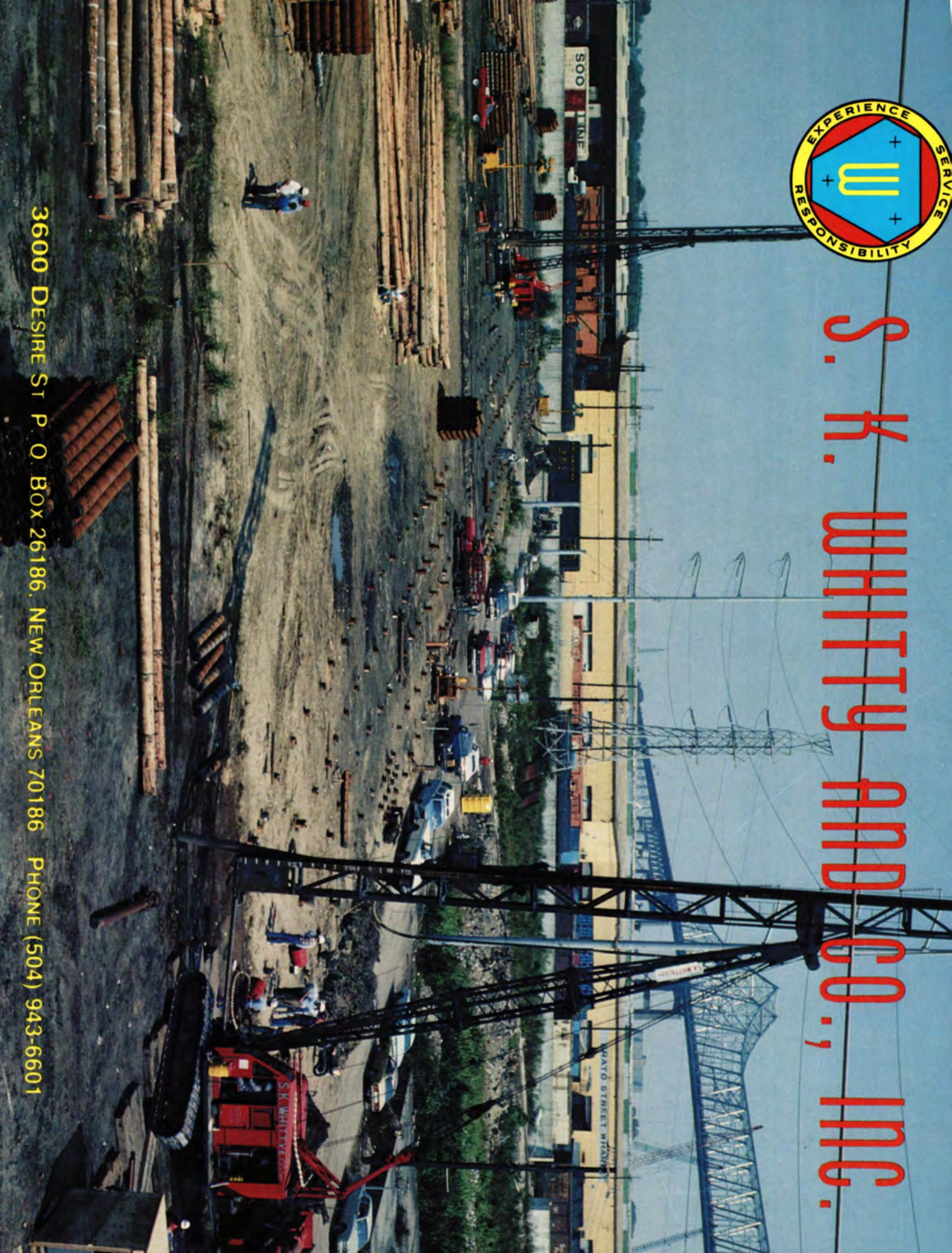
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