

FEBRUARY, 1994
LOUISIANA



ALBERT J. DUNN, P.E./P.L.S.
Services to the Profession



JAMES NEAL MOORE, P.E.
Young Engineer



MICHAEL A. SCHULZ, JR., P.E.
Engineer in Management



JAY CHARLES SMITH, P.E.
Technological Accomplishment



JERRY G. LAZENBY, P.E.
Civic Activities



JAMES L. MEYER, P.E./P.L.S.
Special Recognition

LES Honors Six Engineers

On The Inside

Hotel and Meeting Registration Forms, Program, Schedule of Technical Sessions, and Professional Meeting Agendas for the first-ever Joint Meeting of the Louisiana Engineering Society and the American Society of Civil Engineers, March 16-19, 1994.

Registration forms for a Life Safety Training Workshop, a workshop in Building Codes (page 19), and a Project Management Workshop for Engineers (back cover).

The Society Reports

Professional Engineers in Government (PEG)

by: Richard L. Savoie, P.E.
State PEG Chairman

We are the engineers employed in government. Local, State and Federal employees encompass our membership with all disciplines being represented. Several topics of interest to our members as well as the entire LES membership are Continuing Professional Development, Qualification Based Selection vs. Bidding, the Board of Registration for Professional Engineers and Land Surveyors and "the Practice of Engineering" definition just to name a few.

These topics should stir the interest of prospective members and also those inactive members. One must realize that only a small number of engineers in government represent the total government sector. These few active members establish the "position" and control the practice division's vote on the issues. Only active members can influence the division's vote. Therefore it is important that each member or prospective member becomes active in LES/NSPE/PEG, so that all engineers in government can have an influence on the division's vote. We welcome membership along with participation in LES and our practice division. I challenge all government employees to join your Louisiana Engineering Society and have a voice in the issues that affect you.

Baton Rouge Chapter

by: Christopher D. Abadie, P.E.
Baton Rouge Chapter President

The Baton Rouge Chapter is thriving with about 550 members and as always, would like to see more. We are very proud of our active members who are making their mark on Baton Rouge and Engineering through bringing fresh ideas of mathematic lesson plans to the 4th grade classes, a program called Math Initiative; hosting MATHCOUNTS' local and state competitions; bringing advice to the Baton Rouge community by hosting a 30 minute talk show on the Fox Network (10:00 a.m., Sunday, February 20); fostering inter-society relations by co-hosting the Engineers Week Banquet with the American Institute of Chemical Engineers; trying new ideas such as co-sponsoring the state spring meeting with the American Society of Civil Engineers in March; raising money for engineering scholarships, \$2,500 so far this year, through the Humphrey's Turner Golf Tournament and the annual Scholarship Christmas Party not counting the five scholarships given by our Auxiliary Society, LESA; and, finally, following and debating the legislative issues that affect engineers such as requiring licensure of all engineers. All of this coupled with our standard monthly speaker series provides great networking opportunities where free thinking engineers are able to support common goals and establish new ones. We depend heavily on our local consulting firms for active membership. I would like to thank them for their continued support. I would also like to challenge those of all disciplines and interests to take a more active part in our society. Our Baton Rouge community will benefit, our Engineering Profession will benefit and I guarantee you, you will benefit.

Bayou Chapter

by: Emery R. Chauvin, Jr., P.E.
Bayou Chapter President

The Bayou Chapter's January meeting was held at the Quality Inn in Houma. We were very fortunate to have Mr. Frank Kolwe, a local certified public accountant, as our guest speaker. Mr. Kolwe discussed various changes in the 1993 tax laws, which is of major interest, especially this time of year.

During the month of February, the Bayou Chapter will be involved in a number of activities. In addition to an article published in our local newspapers, Engineers Week (February 20-26, 1994) will be celebrated by a crawfish boil on February 24, 1994. We have invited a representative of Entergy Corporation's Waterford III Nuclear Power Plant as our guest speaker.

In an effort to better meet the needs of our members, improve attendance and involvement and increase membership, we have requested input through a recent questionnaire. Comments, suggestions and opinions offered by our membership will be discussed during our February meeting, and of course will be furnished to the LES Board of Direction for further discussion and distribution to all chapters.

We are looking forward to our local MATHCOUNTS competition scheduled for Saturday, February 19, 1994 at Nicholls State University in Thibodaux, Louisiana. Under the superb direction and coordination of Ronnie Boudreaux, P. E. and Dr. Terry J. Dantin, P.E./P.L.S., Professor of Engineering Technology at N.S.U., approximately 13 area schools have registered for the event. I would like to thank the many volunteers and sponsors for their help in making this year's competition as successful and rewarding as it has always been. Also, our Scholarship Committee has nominated 8 candidates for consideration at the State Selection Committee scheduled for February 10, 1994 in Alexandria, Louisiana.

I urge all engineers to participate in the decision and policy making process of the LES Board of Direction through your local chapter. Input at the grassroots level is essential for your elected officers to better represent you on the various issues involving our profession.

The Woman's Auxiliary to the New Orleans Chapter

by: Courtney Flores
Auxiliary President

The Woman's Auxiliary to the New Orleans Chapter of the Louisiana Engineering Society has a rich and rewarding heritage of capable leadership. The Auxiliary was founded on April 13, 1932 by Mrs. William Benjamin Gregory. We presently have twenty-seven active past presidents still involved in our organization. They are honored each April at our annual Founder's Day Past President's Day Tea. This continuity of involvement and service is what has kept our organization strong through sixty-two years of philanthropic endeavors.

The New Orleans auxiliary strives to financially assist engineering students at all accredited engineering schools in the State of Louisiana. We award an annual fellowship to a graduate student at Tulane University, as well as the Selina Bres Gregory Founder's/Dixie K. Mayer Memorial Scholarship to an undergraduate engineering student at Tulane University. The Samuel McCain Young Memorial Scholarship Fund provides annual undergraduate scholarships to Tulane University, the University of New Orleans, Louisiana Tech University, the University of Southwestern Louisiana, and Louisiana State University. The Nella Ludwig Scholarship Fund assists an additional undergraduate student at the University of New Orleans each year.

The Auxiliary has four general membership meetings each year. The programs vary from style shows, book reviews, to choral performances; however, the goal always remains the same - to advance the cause of our scholarship funds. These various activities and the fellowship provided by sharing in a worthwhile common endeavor gives the New Orleans Woman's Auxiliary a sense of unity and purpose surpassed by none. LE



STATE OF LOUISIANA BOARD OF REGISTRATION
FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

1055 ST. CHARLES AVE., SUITE 415
NEW ORLEANS, LA 70130-3997
(504) 568-8450
FAX - 568-8256

Office Hours
Monday thru Friday
8:00 am until 4:00 pm

Chairman
Coan J. Bueche, P.E./P.L.S.

Vice Chairman
William J. Thevenote, Jr., P.E.

Secretary
Morris P. Hebert, P.L.S.

Past-Secretary
Larry A. McKee, P.E./P.L.S.

Other Members
Randall F. Barron, P.E.
Albert J. Dunn, P.E./P.L.S.
Charles L. McDonald, P.L.S.
Vernon F. Meyer, P.E./P.L.S.
Richard M. Primeaux, P.E./P.L.S.
Richard E. Ruckstuhl, P.E./P.L.S.
Sam L. Sullivan, Jr., P.E.

Executive Secretary
Paul L. Landry, P.E.

PUBLICATIONS COMMITTEE
Chairman
Allison J. P. Launey, P.E.
Managing Editor
Leta G. Bueto
Publishing Consultant
Printing Incorporated

About the Cover

LES Honors Six Outstanding
Engineers



LOUISIANA ENGINEERING SOCIETY
P.O. BOX 2683, BATON ROUGE, LA 70821 TELEPHONE (504) 344-4318
STREET ADDRESS: 1213 NICHOLSON DR., BATON ROUGE, LA

LES OFFICERS AND BOARD

President
Dale T. Hunn, P.E.
First Vice President
Edgar P. Benoit, P.E.
Second Vice President
Carl A. Jakob, P.E.
Secretary-Treasurer
Robert A. Brossette, P.E.

NSPE DIRECTORS
James L. Meyer, P.E.
Dale T. Hunn, P.E.
STATE DIRECTORS
Robert C. Hughes, P.E.
John S. Bruce, P.E.
John J. Plaisance, II, P.E./P.L.S.
Ann Forte Trappey, P.E.

PAST PRESIDENT
Glynn P. Gautreau, P.E.
CHAPTER PRESIDENTS
Alexandria
James N. Moore, P.E.
Baton Rouge
Christopher D. Abadie, P.E.

Bayou
Emery R. Chauvin, Jr., P.E.
Lafayette
Frederick J. Trahan, P.E.
Lake Charles
Theodore Thompson, P.E.

Monroe
Ben Ratcliff, Jr., P.E.
New Orleans
Charles E. Prewitt, P.E.
Shreveport
Reginald L. Jeter, P.E.

PRACTICE DIVISIONS
Construction
Roger D. Melancon, P.E.

Education
Bobby E. Price, Ph.D., P.E.
Government
Richard L. Savoie, P.E.
Industry
J. Madison Drake, P.E.
Private Practice
Charles L. Eustis, P.E.

COMMITTEE CHAIRPERSONS

Constitution and Bylaws
Charles L. Eustis, P.E.
Engineering Education
Kerry J. LaBauve, P.E.
Young Engineers
Angela L. DeSoto, E.I.T.
Ethics and Professional Conduct
Foy B. Gadberry, P.E.
Honors and Awards
Lloyd G. Hoover, P.E.
Inter-Society Relations
John S. Bruce, P.E.
Legislative
Raymond G. Areaux, P.E.
Membership
Richard J. Primeaux, P.E.
Public Relations
John J. Plaisance, P.E.
Scholarship
Keith M. Warden, E.I.T.
Long-Range Planning
Carl A. Jakob, P.E.
Publications
Allison J. P. Launey, P.E.
Liaison Committee/State Board of
Registration
James L. Meyer, P.E.
Louisiana Engineering Foundation
Charles L. Eustis, P.E.

EXECUTIVE DIRECTOR
Leta G. Bueto

In This Issue

The Society Reports	2
Presidential Privilege	4
Engineers in Government	5
LES Honors Outstanding Engineers	6
Engineering the Future	10
Notre Metier	11
The Spec Sheet	14
Registration Forms for LES/ASCE Joint Meeting	16
Program for LES/ASCE Joint Meeting	17
Schedule of Technical Sessions for LES/ASCE Joint Meeting	19
Life Safety Training Workshop	19
Project Management Workshop for Engineers	24

(Please note: Receipt of Louisiana Engineer Magazine does not necessarily mean that you are registered with the Louisiana State Board of Registration for Professional Engineers and Land Surveyors, or that you are a member of the Louisiana Engineering Society.)

The LOUISIANA ENGINEER is the official publication of the Louisiana Engineering Society. The LOUISIANA ENGINEER is the journal of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors. The magazine is published in February, April, June, August, October and December. Subscription \$2.17 per year for engineers registered in Louisiana and non-registered members of the Louisiana Engineering Society. Two dollars of each LES member's annual dues is set aside for six issues of the LOUISIANA ENGINEER. Second class postage paid at Baton Rouge, La. The Louisiana Engineering Society and the Louisiana State Board of Registration for Professional Engineers and Land Surveyors do not guarantee the accuracy of statements made or necessarily concur with opinions expressed in this publication. ISSN: (0024-6794)

POSTMASTER: Please send Change of Address Forms to LOUISIANA ENGINEERING SOCIETY, P. O. Box 2683, Baton Rouge, La. 70821. Telephone 504/344-4318, FAX 504/344-4319; 1213 Nicholson Drive, Baton Rouge, La.



Dale T. Hunn, P.E.
President
**Louisiana Engineering
Society**

Presidential Privilege

There is nothing that gets my day off to a worse start than reading an article in the local morning newspaper that correlates the political campaign contributions made by some engineering firms to the number of public projects for which these firms have been selected to provide engineering services. The columnists who write these articles and the editors who publish them must not have much respect for engineers because these "newsworthy" articles appear with regularity. The articles insinuate that the engineering firms are buying work from the politicians who select the firms that provide services on public projects. The public's opinion of engineers is tainted by these articles and the whole profession suffers because of the actions of the few. Never do these articles describe any actual illegalities, but the implications of wrongdoing are apparent. The readers are left to speculate if all engineers obtain work in this manner. I am sure that the public questions why engineers are not selected on the basis of demonstrated professional and technical qualifications. The public must also wonder if its tax dollars are being wisely spent on services that are being provided by "friends" of the politicians. The politically selected firms must perform quality work, so I wonder why they feel the need to secure work by making campaign contributions.

A true qualifications based selection (QBS) system such as the "Brooks Act" system that is in place at the federal level could be an adequate replacement for the political system used by some government agencies. Failing the establishment of a true QBS system for selecting engineers for public projects at all levels of government, the next step (when the public gets tired of the political system) may be the bidding of engineering services. The problems with bidding engineering services are numerous and have been described in detail in many other publications so they will not be repeated here. I do not believe that the public has a clear understanding of the problems encountered in trying to define an adequate scope of work for engineering services and because of this would probably support a move for bidding engineering services. Engineers should be proactive and help to inform the public on this issue. If bidding does become a reality, we will have no one to blame except ourselves for not demanding an end to the political awards of public projects and for not helping to increase the public's awareness of the problems associated with bidding engineering services.

It is certainly every American's constitutional right to be politically active, but not as a means to secure public work. Further, it is clear that any "quid pro quo" arrangement is patently illegal. The LES and the NSPE Codes of Ethics and the state registration law for professional engineers and land surveyors have much to say about participation in the political process. Section 11 of the LES Code of Ethics says, "He (the engineer) will not pay, or offer to pay either

directly or indirectly, any political contributions, or a gift, or other consideration in order to secure work." The NSPE Code of Ethics goes further and states, "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." Section 2109 C of Louisiana's engineering registration law also addresses this issue in similar language. To the vast majority of engineers and engineering firms who choose not to "play the game", will you demand an end to the game? The ball is in your court!!!

On a lighter topic, you will note that National Engineers Week occurs during February. All engineers are encouraged to participate in at least one of the many activities that will take place this month to show your support for the profession that you have chosen. LES is also looking forward to the joint state meeting with ASCE that will occur next month in Baton Rouge. The planned agenda is full of interesting activities which are described in detail in this magazine. Make plans to attend.

The NSPE Board of Directors at its meeting last month approved a resolution from the Virginia Society of Professional Engineers that supports mandatory continuing professional competency for engineers. Another resolution that concerned exempting certain experienced non-licensed engineers from taking the Fundamentals of Engineering Examination as a requirement for licensure was not approved by the NSPE Board. NSPE does not control the country's engineering registration boards. These resolutions do not carry the force of law, but these votes send a clear message to the National Council of Examiners for Engineering and Surveying that the engineering profession is ready for change.

At the LES Board of Direction meeting on January 28, 1994 a new Constitution and new Bylaws for the Society were adopted to replace the original documents which have been in place since 1898 and modified over time. After several years of work and hundreds of hours of committee effort, the new documents are now in effect. A copy of the new documents will be provided to any member upon request.

The Board accepted an updated Public Relations Master Plan and it referred to the Liaison Committee to the State Board of Registration a request from the Chairman of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors to address the length of the term (currently six years) of Registration Board members.

We welcome new features to the magazine in this issue. Articles from the University of New Orleans and the University of Southwestern Louisiana Colleges of Engineering and the New Orleans Chapter Auxiliary are highlighted. Look forward to articles from the other state engineering schools in future issues. Updates on the activities in the Baton Rouge and Bayou Chapters, and the Professional Engineers in Government Practice Division. As you read these articles, I hope that you sense the enthusiasm that is building within our organization. *LE*

Engineers in Government



Louisiana Society of Professional Engineers in Civil Service

U. S. Environmental Agency's "National Pollution Discharge Elimination System" (NPDES)

by: Jack Manno, P.E.

DOTD Hydraulics Engineer

In 1972 the Clean Water Act was passed by Congress and provided the Environmental Protection Agency (EPA) with the authority to control stormwater discharges that convey pollutants to the waters of the United States through point sources. This control was authorized by Section 301 of the act, 33 U.S.C. & 1311.

On November 16, 1990, the EPA issued a regulation requiring National Pollution Discharge Elimination System (NPDES) permits for stormwater discharges from construction projects. Through this permitting process, this regulation provides a way for the State and EPA Regions to monitor and manage these discharges, and reduce the amount of pollutants. In regards to highway construction projects, temporary erosion and sediment control features must be designed and placed on all projects.

On September 16, 1993 the LADOTD hosted a one day seminar on Erosion and Sediment Control for DOTD Headquarters and Construction personnel. The seminar was presented by Mr. Jim Barrett of the Virginia Department of Transportation's Environmental Division.

Mr. Barrett's presentation was very informative and pointed out many of the problems they have encountered in developing a viable Erosion and Sediment Control program to satisfy the EPA's requirements. One very real hazard of the NPDES program is the fact that Louisiana DOTD could face fines or sanctions if we do not pursue this program in earnest.

The basic concept of the program is to improve water quality by reducing pollutants in storm water discharges. The EPA considers sedimentation as a major pollutant from construction sites. In addition, the construction of roads require the use of hazardous materials such as petroleum products that must be contained. Most of the measures used are simple methods that have been in existence for many years. A few of these management practices are silt fencing, hay bales, temporary mulching and temporary seeding. More elaborate sediment control, such as stream diversions, may be required for the replacement of large culverts or bridges.

The most important part of implementing this program is to develop awareness of sediment and pollution control in the contractors and designers. The contractor and the Department are jointly responsible for the pollution control within the project limits. Outside the project limits, in areas such as borrow pits, concrete plants or offsite storage areas, the contractor must obtain a separate permit and govern his own actions.

As the Department gathers more knowledge and experience in this field, information will be disseminated to the design and construction personnel through memorandums and training sessions.

LSPECS Long-Range Plan

At its December 15, 1993 Board Meeting, the LSPECS Board Members adopted the organization's long-range plan. Reprinted below is a synopsis of the LSPECS's Long-range Plan.

MISSION: The mission of the LSPECS is to promote professional development and conduct of engineers in state service and to professional environment in state service thereby enhancing engineering services to the citizens of Louisiana.

PHILOSOPHY: The philosophy of the LSPECS is to positively influence issues that impact the engineering profession or individual engineers as they relate to and serve the Society and the citizens of Louisiana.

Goals and Strategies

1. Promote a professional work environment for engineers and their fellow employees in state service.
 - A. Ensure that all engineering work is accomplished under the responsible charge of a registered professional engineer.
 - B. Enhance the management and technical capabilities of engineers in state service.
 - C. Establish a valid perception of engineers, their profession and their work in the Department of Civil Service.
 - D. Foster a professional relationship with fellow employees in the engineering environment.
2. Promote the professional development and conduct of engineers in state service.
 - A. Provide a forum for the exchange of information.
 - B. Support the establishment of career paths for engineers consistent with the needs of the State.
 - C. Promote the ethical behavior of engineers in state service.
3. Increase the influence of the LSPECS.
 - A. Encourage active participation of members in top management.
 - B. Increase membership, especially in under represented agencies.
 - C. Lessen political restrictions.
 - D. Improve the image of engineers.
 - E. Maintain a presence in the state legislative matters concerning engineers in state service.
 - F. Maintain the legal responsibility to protect the interest of engineers in state service - individually and severally.
4. Improve the direction, operation, and organization of the LSPECS.
 - A. Establish standing committees with objectives and responsibilities identified and reviewed by the Board of Directors and negotiated with the individual committees on a regular basis.
 - B. Improve communications with the membership.
 - C. Identify and be responsive to issues that concern Society members.
 - D. Develop Operations Manual to codify operating rules for Board of Directors.
 - E. Maintain continuity of programs between administrations.*LE*

LES Honors Outstanding Engineers

Leo M. Odom Award for Services to the Profession

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.



Albert J. Dunn, P.E., P.L.S.

Albert J. Dunn, P.E., P.L.S., is Chief of the Engineering Design and Contract Management Division of the Louisiana Department of Transportation and Development. Most of his professional career has been with the Louisiana Department of Transportation beginning with a Professional Engineer II rating in 1954. Steadily moving forward in his career, he became Chief of the Division in 1992. As Chief, Al plans, directs, organizes and evaluates the work of two distinct divisions consisting of several large engineering staffs responsible for implementing multi-modal programs in the following areas: transportation, planning, management systems, data collection and analysis, traffic engineering and safety, technology transfer and training, and research concepts and development. His responsibilities involves establishment of goals, objectives, policies and procedures in order to facilitate achievement of desired results; the scheduling and prioritization of work activities in order to achieve results in a timely, efficient manner; the establishment of criteria or benchmarks against which work efforts will be measured in order to effectively gauge progress; and, the review and evaluation of results actually achieved.

Mr. Dunn participates in conferences with other directors, division and section heads of the agency to correlate administrative, fiscal, personnel, legal, purchasing and engineering programs and often consults with and advises various public and private agencies, committees, and individuals interested in agency problems. He routinely confers with the Secretary, Deputy Secretary, other appointed officials, and DOTD directors in an effort to coordinate work efforts, communicate operational and managerial needs, utilize resources, eliminate duplication of efforts, and facilitate achievement of the Department's overall goals.

Since passage of the Inter-modal Surface Transportation Act, Al has through supervision been engaged in overseeing the ten management systems mandated by the act: Pavement and Geotechnical Design; Bridge Design; Road Design; Materials; Geometric Design; Environmental; Hydraulics; Location and Survey; Contracts and Specifications; and, Water Resources Design and Development.

Mr. Dunn is a registered Professional Engineer and Land Surveyor in Louisiana and received his Bachelor of Science Degree in Civil Engineering in 1952 from Louisiana Tech University. Since 1954, he has completed numerous federal, state, and private business continuous educational technical courses and seminars in soils, asphalt, concrete, pile driving, base courses, steel welding and fabrication, bridge-structure inspection, bridge deterioration and repairs in concrete, steel and other materials, cleaning and coating of structural steel, fracture mechanics and critical fracture of structural steel, numerous research courses concerning courses of action/policies in design, planning, construction, maintenance, value engineering, and construction and maintenance of highway, bridges, and public works projects.

Mr. Dunn has attended and worked on numerous National Cooperative Highway Research and Transportation Research Board programs which provides well designed research papers, reports and studies with national and international engineers, scientists, engineer administrators, university professors, and state, federal, and private industry officials. He is a member of the American Association of State Officials; the Southeastern American Association of State Transportation Officials; the National Cooperative Highway Research; the Transportation Research Board; the Steel Structures Paint Council; the National Council of Examiners for Engineering and Surveying; the American Road and Transportation Builders Association; the Louisiana Society of Professional Surveyors; the Public Works Association;

the Louisiana Highway Association; the American Society of Civil Engineers; the American Welding Society; and the American Traffic Safety Service Association. Mr. Dunn, now a life member of the Louisiana Engineering Society, served as Chairman of the Professional Engineers in Government Division and as a member of the Board of Direction. He is a 1965 charter member of the Louisiana Society of Professional Engineers in Civil Service having served as a member of the Board and on a number of committees.

Al will soon complete a six-year term on the Louisiana State Board of Registration for Professional Engineers and Land Surveyors where he served as an officer. During this term, he served on the Examination for Professional Engineer Committee and the Records Verification Committee of the National Council of Examiners for Engineering and Surveying.

Mr. Dunn is married to the former Jerri Hicks of Leesville and they have one son, David Scott Dunn. He and his wife are members of the First Christian Church.

Mr. Dunn has distinguished himself throughout his career as a professional engineer who has unselfishly given of his time and resources to the advancement of his profession. His achievements exemplify the outstanding leadership recognized and honored through this award.

F. Hugh Coughlin Young Engineer Award

This award is given to an engineer not over 35 years of age who has, to a high degree, demonstrated capabilities in his chosen field. F. Hugh Coughlin was a member of the Louisiana Engineering Society from 1944 until his death in 1979. His financial support not only pays for this award to infinity but other awards in our program. 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.



James Neal Moore, P.E.

James Neal Moore, P.E., a native of Delhi, Louisiana, received his Bachelor of Science Degree in Agricultural Engineering in 1981 from Louisiana Tech University. He is a registered Professional Engineer in Louisiana.

Since graduation from Louisiana Tech University, James has been continuously employed by the U.S. Department of Agriculture Soil Conservation Service and presently holds the position of State Design Engineer.

Beginning his professional career with the Department as an Area Staff Engineer, he provided technical assistance to ten field offices with planning and installation of conservation practices. These practices included irrigation pipelines, grade control structures, grassed waterways, ponds, precision land leveling, surface and subsurface drainage systems and terraces.

In 1984, James was promoted to Planning Engineer and was responsible for planning flood prevention and agricultural water management projects. Projects included sixty-two miles of channels with appurtenance structures, two grade control structures, flood routing on flood plain management studies, and planning coastal wetland protection and water quality improvement projects on severely eroding marsh. Total project costs ranged from \$1,400,000 to \$10,000,000 and the complexity included watershed hydrology, channel hydraulics and ratings, flood routings, structure hydraulics, grade control structures, water control and erosion control structures.

James was reassigned in 1987 to the State Conservation Engineer's Staff as a Hydraulic Engineer. As a staff member, he was directly involved in the 1,443 square mile hydrologic and hydraulic study of Lake Bistineau to determine alternative solutions for erosion problems downstream of the dam and the 462 square mile hydrologic and hydraulic study of Corney Lake to determine alternative solutions for spillway problems.

As State Design Engineer, since 1990, James has undertaken major projects on behalf of the Department. He is responsible for designs, plans, and specifications for flood prevention and agricultural water management projects, coastal wetland protection and restoration projects, Emergency Watershed Protection projects, and numerous special projects such as the Corney Lake Spillway rehabilitation. Project costs range from \$5,000 to \$3,500,000. The complexity on these projects include: channel and embank-

ment slope stability analysis for earth, shell and rock riprap, watershed hydrology, channel and structure hydraulics, metal fabrication, concrete, sheet pile, drainage filter, timber retaining wall, and geotextile designs, riprap armor plating, erosion control measures, and corrugated aluminum structures with flap-grades and water control risers.

James was a member of the Student Chapter of the American Society of Agricultural Engineers and served as an officer and on a number of committees. He has been an active member of the Louisiana Chapter of the American Society of Agricultural Engineers since 1982 and served as Vice Chairman of the 1991-93 Scholarship and Awards Committee. James is a member of the National Society of Professional Engineers and the Louisiana Engineering Society and is currently serving as President of the Alexandria Chapter having served in all officer positions. He served as Chairman of the Chapter's Membership Committee and the Engineers' Week Activity Committee. He is a past member of the Chapter's Ethics and Professional Conduct Committee and the MATHCOUNTS Competition Committee and served as Coordinator for both the Chapter and State Competitions in 1993.

In 1979 James was inducted into the Alpha Zeta Honor Fraternity at Louisiana Tech University and in 1981 received the Student Honor Award from the American Society of Agricultural Engineers and the Outstanding Student Award from the Louisiana Gamma Chapter of Alpha Zeta. The USDA Soil Conservation Service has honored James with Certificates of Appreciation for Dedicated Service to the Savings Bonds Campaign and for Outstanding Service and Contributions to the Emergency Watershed Protection Efforts in Louisiana.

Active in his community, James has been recently elected to the Ward 10 Boys' Baseball Board and the Ward 10 Youth Basketball Board for the 1993-94 season. Since 1988, he has coached or assisted in coaching boys basketball, baseball, and football, and girls softball and basketball.

James, his wife Kris, and their two children, Andrea and Neal, reside in Pineville.

James Neal Moore has demonstrated exceptional capabilities in his chosen field of engineering and has generated an enthusiastic approach toward professional achievement. His success can only serve to inspire and encourage other young engineers.

A.B. Paterson Medal for an Engineer in Management

The Louisiana Engineering Society has a special award for an 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.

Michael A. Schulz, Jr., P.E.

Michael A. Schulz, Jr., P.E., is a registered Professional Engineer in Louisiana and Mississippi. He received his Bachelor of Science Degree in Civil Engineering from Louisiana State University in 1959.

During the past thirty-five years, Mr. Schulz has employed civil engineering principles and practices in many important and critical civilian endeavors. Among these are management of a major private sector industrial construction company as well as his present engagement in the public sector as manager of the Louisiana Health Care System's physical



assets. The innovation and creativity he has brought/ is bringing to the management of private/public sector endeavors is certainly worthy and deserving of the highest of recognitions. However, it is in the field of military engineering management that Major General (MG) Schulz has made a contribution of untold value to both the security of the United States as well as the practice of professional engineering.

Beginning in the early 1970s, then Lt. Colonel Schulz, as Commander of the 245th Engineer Battalion, United States Army Reserve, began applying engineering management techniques to solving a host of problems. Chief among these tasks was the training of front-line engineer soldiers for possible combat in Europe. In this guise, the 245th Engineer Battalion was among the very first units to train under the Army Training and Evaluation Program (ARTEP). Encompassing all aspects of military preparedness, not just engineering, the ARTEP entailed definition of specific individual and unit tasks necessary to ensure success on the battlefield. During this time, Mike's leadership and innovativeness resulted in the 245th being selected as the test case for reserve component engineer units using the ARTEP procedure. Viability of the program, as demonstrated through the success enjoyed in its application by the 245th, was such that it was adopted and has been in continual, army-wide use to this date. Such success was due in no small measure to Mike's ability to manage assets of his battalion. Criticalness of such efforts is indicated by the timing. The mid 1970s represented the "height" of the Cold War. In that period, the U.S. military was turning its

attention from the conflict in Vietnam to the necessity of engaging - and defeating - numerically superior Warsaw Pact forces in Europe. It was then recognized that engineer units, such as the 245th, would play a key role in multiplying the combat power of U.S. and allied maneuver formations. Consequentially, the criticalness of Mike's contribution in bringing into play a viable training program for combat engineers cannot be overstated.

After completing his command tenure at the 245th, MG Schulz continued applying management principles to military engineering through his assignment to the 412th Engineer Command, United States Army Reserve, Vicksburg, Mississippi. His initial contribution there focused on introduction of the CAPSTONE program, which is now an integral part of U.S. mobilization planning, to the 412th and its subordinate units. The (then developing) CAPSTONE program entails the peacetime association of various and diverse units, both active as well as reserve components, within their wartime chain-of-command context. Largely through then Colonel Schulz's leadership, foresight, and management skills, the 412th became the first engineer organization in which the European aspects of CAPSTONE were fully implemented. Also, Colonel Schulz's duties included management of the Civil Engineering Support Plan (CESP); more than 28,000 ongoing/planned projects necessary to support both peacetime as well as wartime involvement of the United States in the European Theater of Operations. To accomplish these tasks, Mike made numerous trips to the European continent for coordination with not only U.S. military personnel, but also with military and civilian engineering organizations of virtually all North Atlantic Treaty Organization (NATO) allied nations. Again, the criticalness of such endeavor must be viewed in its timing context, the threat of global war remained extremely high in the late 1970s/early 1980s.

Later, as Commanding General of the 412th, he assumed responsibility for all European Theater communications zone military engineering assets. This area extends from Europe to the continental United States and from Scandinavia to the eastern Mediterranean. Had mobilization occurred, he would have been responsible for managing the efforts of more than 35,000 engineer soldiers. Ironically, in view of his present-day civilian occupation, a major component of such engineering was the identification, and planning for future expansion, of hospital facilities to receive European Theater battle casualties.

MG Schulz's activities during this time also included management of many engineer exercises, involving both U.S. as well as allied forces, plus the conduct of numerous schools, seminars, and conferences. Held in Europe as well as the U.S., the purpose of these was to foster coordination between various military and civilian engineer organizations. Furthermore, he oversaw development of computer data bases and computer aided design processes for planning and executing peacetime/wartime military construction, both in Europe as well as in the U.S. The high point of this period came in March 1990 as a result of the November 1989 dismantling of the Berlin Wall. Such event, signaling the winning of the Cold War by a fully prepared and resolute U.S. and NATO military, was celebrated by MG Schulz personally traveling to Berlin to collect "a piece of the wall".

During the last two years of Mike's tenure as the 412th's Commanding General, the defense emphasis of the United States began to shift away from the European Theater as a result of the Warsaw Pact dissolution. At this juncture, MG Schulz began the process, which is ongoing today, of defining the military engineer's role in what has come to be termed "Peacetime Engagement". Ground work for this was laid as a result of MG Schulz's recognition that the developing nations of the United States Southern Command, encompassing the land mass from Mexico's Southern Border to the tip of South America, required considerable quality-of-life engineering in the tumultuous post-Cold War era. Professionalization/institutionalization of the various Latin America militaries, plus the development of physical and administrative engineering infrastructures, were/are desperately needed there. Initiatives in this arena by MG Schulz resulted in the application of U.S. military engineering to such diverse activities as: the development of water resources in Bolivia and Paraguay; the construction of facilities to stem the flow of illegal narcotics from Columbia and Peru; and the assurance of bilateral compliance with the January 1992 Peace Accords ending the El Salvadorian civil war. Such efforts have included similar initiatives in Africa as well as the provision of military-to-military engineer contacts with former Warsaw Pact adversary nations, notably Hungary. Also during this time, engineer assistance was provided by the 412th to the Kurds in Northern Iraq just subsequent to completion of hostilities in Operation Desert Storm. In essence, through MG Schulz's foresight and managerial skills, engineering thought processes have been brought to bear for the betterment of the post-Cold War world.

Upon leaving the 412th, MG Schulz assumed command of the 377th TAACOM. This came at a time of stand-down from the Desert Shield/Desert Storm hostilities. MG Schulz's penchant for engineering organization and management, brought to bear during this transitional period, resulted in logistical as well as engineering ties being strengthened with the various nations in the United States Central Command Theater.

Subsequent to his retirement from the military in December of 1992, Mr. Schulz has devoted his full efforts, and considerably developed engineering managerial skills, to the Louisiana Health Care Authority. His tasks have included planning for new construction plus assessment of structures recently purchased by Louisiana to extend its charity hospital system. To these ends he is overseeing the administration of several of the largest architectural services contracts ever let by the State of Louisiana. Mike's skills in this area were, in no small part, honed by management of the assessment of military hospitals in the European Theater during his days with the 412th. In essence, MG/Mr. Schulz's considerable managerial skills and demonstrated engineering talents are continuing to serve the citizens of Louisiana and the nation.

Besides his work contributions, Mike Schulz has done much to further professionalism in the practice of engineering. He has contributed extensively to the local, state, and national levels of the American Society of Civil Engineers, the National Society of Professional Engineers, and the Louisiana Engineering Society. In the latter case, he, Vincent A. Forte, Leo V. Bankston, and R.C. Spears, are the four original incorporators of the Louisiana Engineering Foundation. On the personal side, Mike and his wife, Ann, reside in Baton Rouge and attend Trinity Episcopal Church. They have one daughter, Terri, and two grandchildren.

In summary, Michael A. Schulz, Jr., citizen, soldier and professional engineer, through numerous far-reaching contributions in the field of civilian and military engineering, is a most worthy recipient of this year's A.B. Paterson Medal for an Engineer in Management.

James M. Todd Technological Accomplishment Medal

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



Jay Charles Smith, P.E.

Jay Charles Smith, P.E., is Vice President of Crescent Technology, Inc., a newly formed corporation. He is a registered Professional Engineer in Louisiana receiving his Bachelor and Master of Science Degrees in Chemical Engineering from Mississippi State University in 1965 and 1967 respectively.

Charlie was originally employed in 1967 by Freeport Sulphur Company in the Research and Development Department as a Development Engineer. Over the course of the twenty-five years that he was employed at Freeport-McMoRan, he

earned a reputation as one of the company's top process engineers. Much of that reputation was earned through his work for the agricultural chemicals operations, first as a Process Engineer at the Uncle Sam complex, and later through his positions in Freeport Research and Engineering as an Assistant to the President and as Vice President. Charlie's advancement has been along a technical track. He is still directly involved in engineering work, and in many areas he is regarded as the resident expert. His first assignments at Uncle Sam were mainly related to the reaction and filtration systems in the phosphoric acid plant.

He played a leading role in the development and pilot plant demonstration of new technology, including phosphoric acid decolorization, phosphoric acid purification by solvent extraction and crystallization, silicon tetrafluoride production from fluosilicic acid and the highly successful process for uranium extraction.

Charlie holds five U.S. patents and several foreign patents and has received Freeport-McMoRan's "President's Award" twice in the last five years. He received the award in 1989 for development and successful implementation of a new process for treatment of highly refractory gold ores.

The gold in these ores was associated, in varying degrees, with sulfide minerals which prevented dissolution by the cyanide lixiviant commonly used for gold extraction. In addition, these ores contained naturally-occurring, surface-active carbonaceous material which immediately recaptured dissolved gold by adsorption of the gold-cyanide complex. Ground ore slurry had previously been treated successfully with chlorine, in a process developed by Freeport, to deactivate the natural carbonaceous material and to oxidize sulfide minerals but newly discovered ores contained more of the refractory components making chlorination extremely expensive and in some cases technically infeasible. Charlie led the team that developed the new process for treatment of such ores and was responsible for process design, commissioning and startup of two plants which use the new technology. The key step in this process, covered by a patent assigned to Freeport-McMoRan, involves reaction of the ore with substantially pure oxygen in a fluidized bed at elevated temperatures. Since gold recovery from thermally processed ores is sensitive to treatment conditions, a key to successful development was optimization of operating conditions.

Conditions were also optimized to take maximum advantage of naturally-occurring alkaline ore minerals for adsorption of sulfur dioxide formed during reaction of the sulfide minerals with oxygen. Nevertheless, testwork showed that offgas from the reaction of these ores with oxygen would contain up to several percent sulfur dioxide and a new type of sulfur dioxide scrubber was developed for emission control. Criteria required use of lime or limestone to minimize cost, a very high scrubbing efficiency and a minimum of downtime to remove scale or unplug piping. The new single-stage scrubber has operated with lime for more than 4 years and has never been shutdown to remove scale or unplug piping. Scrubbing efficiency has typically been in the 99.9-99.99% range. The gas cleanup flowsheet for the process also included provisions that effectively prevent corrosion of the main gas blower which handles wet gas containing sulfur dioxide and sulfuric acid mist.

In another, more-recent environmental project, Charlie led the team that designed cover and drain systems for phosphogypsum impoundments ("gypsum stacks") at two sites in Louisiana. A total of 1100 acres were covered with local clays or with HDPE liner to prevent contamination of stormwater runoff. The design included about 20 miles of sand-filtered drain lines that were installed by deep-ditching and continuous pipe-laying machines, a first time application of such equipment on gypsum stacks. Another 20 miles of buried piping collect solution from the drain lines and recycle it back to the associated plants where the contained phosphoric acid becomes additional product. As a part of this project, stack designs were also optimized to cut future growth of these impoundments in half.

In an earlier project related to resource utilization, Charlie led the pilot plant development, process design and commercialization of a proprietary uranium recovery process. In this process, uranium is recovered as a byproduct of phosphoric acid, a fertilizer intermediate, and is sold as the natural oxide, U308 which is subsequently upgraded by others to reactor fuel. The uranium is extracted from the phosphoric acid into an immiscible organic solvent, stripped from the solvent, precipitated and converted to the solid oxide. About 20 principal operations are contained in the process and its development involved development of several prototype systems including, for example, a two-phase reactor which has operated for around 10 years without any maintenance. Successful development of the uranium extraction process led to the formation of Freeport Uranium Recovery Company and to construction of two plants in Louisiana. The technology has allowed clients to generate more than \$500 million in byproduct sales plus additional revenue from licensing the know-how to others.

Presently, most of Charlie's work pertains to copper metallurgy but he continues to consult on the gypsum stacks.

Charlie is a member of the Louisiana Engineering Society, the National Society of Professional Engineers and the American Institute of Chemical Engineers. He and his wife, Ramona, and daughter, Miranda, live in Pearl River, Louisiana.

Mr. Smith's outstanding achievements make him a worthy recipient of the James M. Todd Technology Accomplishment Medal.

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.



Jerry G. Lazenby, P.E.

Jerry G. Lazenby, P.E., President of Lazenby & Associates, Inc., West Monroe, Louisiana, is a native of Bernice, Louisiana. He and his wife, the former Christine Wilson, a native of Lisbon, Louisiana, have three children, Jeffery, David, and Heather, two grandchildren and three step-grandchildren. Jerry received his Bachelor of Science Degree in Civil Engineering in 1965 from Louisiana Tech University. He is a registered Professional Engineer in Louisiana.

Mr. Lazenby began his professional career in 1965 with the U.S. Bureau of Public Roads, now known as the Federal Highway Administration. During his tenure with the Highway Administration, Jerry completed a 3-year Highway Training Program which enlightens the engineer on planning, design, development, construction, maintenance and administration of highway systems and programs.

In 1974, he moved to Monroe, Louisiana to join the consulting firm of Jenkins and Madden Engineering. The firm later changed to Jenkins and Lazenby Engineering Company, to Harrison and Lazenby, Inc., and lastly to Lazenby & Associates, Inc. Jerry's responsibilities are the administration of the company, business development, and professional engineering and land surveying activities as it pertains to the planning, development and design of various highway and bridge projects for state and local municipalities; the

planning, design, and construction administration of various projects for the development of wastewater collection and treatment systems, potable water distribution and treatment systems; drainage systems; gas distribution systems, private developments, transportation and drainage studies; and related infrastructure improvements.

Mr. Lazenby is active in his community. He is a member of the Ouachita Parish Public Health Advisory Committee serving as an advisor to the Ouachita Parish Health Unit and liaison to state legislators and local government officials. The advisory committee was formed to increase public awareness and effectiveness of public health programs to promote adequate funding for vital programs.

He served four years on Louisiana Tech University's Department of Civil Engineering Advisory Committee. Jerry was Vice Chairman of the Committee in 1989-90 and Chairman in 1990-91. The Committee evaluates the Civil Engineering Department and recommends actions and programs to improve the Department and the education of civil engineering students.

Mr. Lazenby is a member of the Monroe Chamber of Commerce and the West Monroe Rotary Club where he served as Program Chairman, Treasurer in 1992, and Vice-President in 1993.

Jerry is very active in the West Monroe-West Ouachita Chamber of Commerce where he has served as the advisor for the past eleven years to the West Monroe-West Ouachita Chamber of Commerce on all engineering related matters. He served two three-year terms on the Board of Directors and as its President in 1980-81. Jerry is a Past Chairman of the Government Affairs Division with over fifteen years service on the Transportation Committee. He worked diligently with the Chamber to obtain an interchange at Camp Road and I-20 to serve the West Ouachita Industrial Park. The park was constructed in the mid 1970s with the promise of an interchange with I-20 at Camp Road to serve the park. Due to funding problems, the interchange was delayed for a number of years. Through the efforts of the Chamber and working with the Ouachita Parish Policy Jury and elected officials, they were successful in lobbying the legislature, the Governor's office and the Federal Highway Administration to obtain the funding from the Louisiana Department of Transportation and Development and the Federal Highway Administration. After many years, the interchange is now nearing completion.

Mr. Lazenby has given unselfishly his time to assist the Chamber in meeting the needs of Ouachita Parish. He assisted the Chamber in a number of ways: planning and promoting a bond issue to improve the education facilities of the Parish School System and the renewal of a maintenance tax millage; served on the Legislative Committee for over fifteen years reviewing, recommending, and promoting legislation beneficial to the State of Louisiana and more particularly northeastern Louisiana; in promoting the creation of the West Ouachita Industrial District in order to promote economic development in the Parish; and, in promoting the creation of the West Ouachita Sewerage District No. 5 in order to provide adequate wastewater collection and treatment to the large residential areas outside the corporate limits of the City of West Monroe.

In 1979, he was appointed by the City of West Monroe to the Monroe-West Monroe (Ouachita Parish) Public Finance Authority. The authority was created to promote housing construction in the Parish and provide mortgage financing of homes by first time home buyers. He served as Vice-Chairman to the Authority from 1979 through 1988. During the early years of the Authority, revenue bonds were issued to provide financing of homes at reasonable interest rates. In recent years, the bond issues have been restructured providing excess funds for the Cities of Monroe and West Monroe to purchase significant real property improvements.

Jerry is an active member of the Louisiana Engineering Society having served as Monroe Chapter President in 1982-83 and as Chairman of the State Professional Engineers in Private Practice Division in 1988-89. He received the Society's 1993 Charles M. Kerr Public Relations Award for improving the image and identity of the professional engineer through public relations.

He is currently serving as Treasurer to the Board of Directors of the Consulting Engineers Council of Louisiana, Inc. having completed a term as Secretary and Chairman of the Ways and Means Committee. Jerry also served two terms as Monroe Chapter President and a term as Board Member-at-Large.

Jerry and Christine are members of the Edgewood Baptist Church where he is Vice Chairman of the Deacons Board, a member of the long range planning committee, a teacher in children's mission study, and Chairman of the Budget-Finance Committee. He served as Sunday School Superintendent for eight years and is a former youth and children's Sunday school teacher.

Mr. Lazenby and his engineering partners have donated engineering services to such organizations as the West Ouachita Little Boys Football Association and the West Monroe Dixie Youth Baseball Association in surveying and providing planning and construction layout for youth football and baseball complexes which are used by hundreds of children in western Ouachita Parish.

Mr. Lazenby's service to his community and profession are in keeping with the ideals of the Andrew M. Lockett Medal. His civic involvement is an inspiration to the engineering profession.

Special Recognition

The Society is pleased to honor James L. Meyer, P.E./P.L.S., for his leadership efforts and coordination of the England Air Force Base closure and transition.

James L. Meyer, P.E./P.L.S.

In 1968, Mr. Meyer founded James L. Meyer & Associates, the parent company of Meyer, Meyer, LaCroix & Hixson, Inc. which is celebrating its 25th anniversary this year. Beginning with a total of three personnel, Mr. Meyer has guided the growth of the firm to a medium size firm staffed with an average of 55 employees. The firm occupies company owned office spaces in Alexandria and Ruston, and leased offices in Monroe, Louisiana.



Mr. Meyer is President and Chief Executive Officer. He exercises direct responsibility for management and fiscal policies for the company. He serves as a consultant to the firm's designers and land surveyors on technical questions, including attendance at concept, preliminary and final design conferences in general civil, environmental and utilities engineering. Jim is active in civic and professional affairs representing the firm and the engineering profession on numerous local, state and national committees.

Jim has received many civic and professional honors including the Louisiana Engineering Society's Leo M. Odom Award for Services to the Profession, the Charles M. Kerr Public Relations Award, and the Andrew M. Lockett Medal for Civic Activities.

This special recognition by the Louisiana Engineering Society is for Mr. Meyer's demonstrated achievements and distinguished service in management related to his work with the England Economic and Industrial Development District (England Authority).

In early 1990, the possible closure of England Air Force Base (Rapides Parish's largest employer) became apparent. The economic consequences of the closure were predicted to adversely impact the community by a reduction in annual sales of over \$119,000,000, reduced annual household earnings by over \$127,000,000 and reduced local employment by almost 6,400 jobs.

As President of the Central Louisiana Chamber of Commerce and Chairman of the England 2000 Commission, Mr. Meyer led the effort to "save the base". This, in itself, was a major undertaking, requiring many volunteer hours which included interfacing with USAF evaluation teams, document preparation, environmental impact testimony, testimony before the Base Realignment and Closure Commission (BRAC), and trips to Washington, DC, meeting with DOD officials including USAF Secretary Rice and Defense Secretary Cheney. While this effort was ongoing, Mr. Meyer knew that the chances of success were questionable. He conceived a vision for a Plan of Action for Central Louisiana in Transition - a contingency plan to be implemented if the air base were closed.

A contingency planning committee was appointed by Mr. Meyer in August, 1990, eight months before the closure announcement. Committee work included five subcommittees; research, governance, legal, funding and economic planning.

In January, 1991, Mr. Meyer assumed chairmanship of the committee. The plan was published and publicly released on April 12, 1991, the date of the announcement that England AFB was on the closure list. The plan of action resulted in (1) the passage of state legislation creating a body politic called the England Economic and Industrial Development District (EEIDD) which is the designated re-use organization of England AFB; (2) the funding of the EEIDD for FY 1992; and (3) the designation by the Department of Defense on October 25, 1991, that a public benefit transfer of the assets of the air base would be made to the EEIDD after closure. The EEIDD's responsibility was to create effective economic re-use of the assets of the base, a task that was well underway, a full 12 months before closure.

This approach was innovative in that the contingency planning proceeded covertly while a parallel effort to "save the base" was publicly active; and the scheduling for publication and implementation resulted in action in 1991 which otherwise would have been delayed until 1992, or later. The community was in an advantageous position for early re-use.

Under Mr. Meyer's leadership, the community mobilized in the total EAFB project, with at least 80 local businessmen and government officials participating in the preparation of both plans (Plan A - "Save the Base" and Plan B - "A Plan of Action for Central Louisiana in Transition"), in public awareness meetings, and the spearheading of a media campaign which for

Continued on page 10

Engineering the Future

With this issue, we are very pleased to introduce a new feature to the magazine. Articles from our Louisiana Engineering Colleges. The intent of the articles is to keep the engineering profession informed of all educational opportunities available to them through Louisiana's engineering colleges. Through this media, we extend an invitation to each university to submit their "story". This issue features articles from the University of Southwestern Louisiana and the University of New Orleans. The Editor.

Telecommunications — Engineering and a Whole Lot More

by: Benjamin J. Leon, ScD, PE & Robert W. Cline, PhD, PE
Center for Telecommunications Studies
University of Southwestern Louisiana

More than Engineering

Telecommunications is the utilization of the electromagnetic spectrum for the movement of information between two points in space. This information may be voice or other information that we receive aurally, data or alphanumerics, and video still or moving images. Since electrical engineers manipulate energy in the electromagnetic spectrum, much of telecommunications is the province of electrical engineering.

In order to transport information we must use the spectrum in free space or on wires, including glass fiber. Since the useable electromagnetic spectrum in space is a finite resource, the government regulates its use. Wires from here to there go across other people's property. Therefore, the government has regulations for rights of way. Because of the significance of telecommunications to the quality of life, the communications act of 1934 said, among other things, that telecommunications should be regulated in such a way as to bring universal (telephone) service to the public. These situations bring public policy makers into telecommunications.

Today, with radio, television (both broadcast and cable), telephone (both wireline and cellular), and computer communications, telecommunications is big business. This encompasses management, finance, marketing, accounting, economics and all of the other disciplines that come under business administration.

State and Federal Initiatives

On November 10, 1993, Governor Edwards appointed a task force to develop a comprehensive telecommunications plan for the state. This is in keeping with the national information infrastructure initiative championed by Vice President Gore. If a state is to compete in the information age, it must both nurture and support existing businesses and industries and discover ways to attract new ones. Employers want good educational opportunities for their employees and their children. They also want their employees to have access to first rate medical care. Telecommunications is recognized as being essential in bringing these services to the people, especially in the

rural areas. The task force has a broad representation to address these issues.

The University of Southwestern Louisiana Center

In 1983 USL added a semester of business courses to the BSEE and created a formal option in telecommunications. The graduates of this program are engineers who have also taken course work that goes beyond engineering to show the bigger picture. The program has been very successful in that the graduates find jobs in telecommunications and that the various parts of the industry have seen fit to support the program. USL's Center for Telecommunications Studies has received over \$300,000 for scholarships and more than a million dollars worth of equipment and other support of the program in the 10 years of its existence.

In 1990 the Board of Regents approved an interdisciplinary Master of Science in Telecommunications. This program requires courses in the technology, in management and in public policy relative to the industry. For engineers, the technology courses and the electives are graduate electrical engineering courses in the communication area. Students with other backgrounds are welcome in the program. Their technology courses are less mathematical, but they still give a complete overview of the hardware and software. The courses are offered in the evenings to serve the educational needs of those currently employed.

Professional Organizations

The telecommunications industry includes equipment (both hardware and software) providers, service providers, and users. The user community is a major employer of engineers and other telecommunications professionals. The International Communications Association (ICA), the organization of large users, has been a major supporter of the USL program. They have given funds for scholarships, equipment, and program development. They have also employed many of our graduates over the years. Banks, insurance companies, retailers, diversified corporations, and all other large multi-location corporations (except telecommunications service providers) are members of ICA.

The IEEE Communications Society is the primary engineering organization for telecommunications professionals. Engineers, policy makers and business people of all sorts are associated with the various trade associations. In addition to ICA, there is the US Telephone Association (USTA), the Telecommunications Industry Association (TIA), the Telecommunications Association (TCA), the National Cable Television Assoc. (NCTA), and a number of smaller organizations. USL faculty attend the meetings of many of these organizations in order to keep up with this fast moving industry.

Continued on page 13

Award Winners

Continued from page 9

one environmental scoping meeting resulted in some 6,000 people in attendance. The community had/had a "can do" attitude and hundreds of citizens are now participating in the work of the EEIDD.

The voluntary management service was, and continues to be, hands-on. Mr. Meyer serves at this time as chairman of the re-use organization, the England Economic and Industrial Development District.

Mr. Meyer attended Louisiana Tech University receiving his Bachelor of Science Degree in Chemical Engineering in 1956 and his Master of Science

Degree in Civil Engineering in 1965. He is a registered Professional Engineer and registered Professional Land Surveyor in Louisiana. He is married to the former Joy Sumner of Sumner, Mississippi. They have two grown children, a son and a daughter. He is active in St. Timothy's Episcopal Church.

This truly tremendous success story has been published in *The Wall Street Journal* (U.S. and Europe), *NSPE's Engineering Times*, and in numerous city newspapers throughout the state.

Jim has truly been an outstanding ambassador to the State of Louisiana, the City of Alexandria, and the engineering profession. His professional and civic involvement is an inspiration to the engineering profession. LE



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



The Registration Process

The process for professional registration has changed, is changing, and will change in the future. The process is complicated, it's messy, and it's frustrating to all of you and to the Board staff. It may help all of us to understand how the registration process works and the problems we're confronted with.

To begin with, we need to understand and accept the fact that there's no such thing as true reciprocity or comity registration. Let me explain.

Once someone obtains initial PE or PLS registration in one state, there are two different and specific approaches used to obtain registration in other states.

The first and the most severe approach requires that the applicant meets the current requirements for registration with no regard as to when the applicant was initially registered in another state. This means that if someone was registered thirty years ago when no exams were required any place and today both the Fundamentals of Engineering (or Land Surveying) Examination (8 hrs) and the Professional Engineer (or Land Surveying) Examination (8 hrs) are required; applicants applying in another state must take both of these examinations when thirty years ago the applicant was registered without any examinations.

The second method that's used and the one used in Louisiana and by about half of the states is to register applicants initially registered in another state by using the following criteria. "When initially registered in another state did the applicant then meet the registration requirements which were in effect in Louisiana at that time?" The criteria for registering over time has changed. For example prior to July 1978, professional engineer applicants with accredited bachelor of science engineering degrees were required (in Louisiana) to take but one examination. Subsequent to July of 1978, the same applicants were required to take and pass both the Fundamentals of Engineering Examination (8 hrs) and the Principles and Practice of Engineering Examination (8 hrs). As you can see, the date a PE was initially registered in another state is critical because that determines whether or not a registrant will have to take one or two examinations when applying for reciprocity registration in the State of Louisiana.

The information used by a board is also critical in determining registration. It must be information which is clear, concise, and verified. The information usually required by most boards is:

1. **Education** — transcripts to come directly from the university.
2. **Work Experience** — The work experience presented by the applicant on his application must be verified by someone who has first hand knowledge of that experience presented.
3. **References (Character)** — Five references, three of which must be professional engineers, are given an opportunity to comment directly to the Board as to the applicant's character.
4. **Registration and Examinations taken in other states** — All boards have procedures for verifying this information and boards communicate directly with each other for this critical information.

Prior to July 1992, the professional engineer applicant in Louisiana would submit his application to the Board and the Board

staff would verify education, work experience, and character references. The staff was doing all the processing of an application. The applicant following the submittal of his application was at a complete loss as to the status of his application and the reason for the long delays in receiving any comments from the Board. This was not a desirable situation. The Board staff was in the middle of trying to work out problems in processing the applicant's application.

Since July 1992, we have changed our processing procedures for professional engineer applicants only. We now have a two step procedure. The first step is a pre-application whereby the applicant submits to the Board a brief summary of education and experience along with a minimal fee. From the data presented on the pre-application, the staff (which does not have the approval or disapproval authority of the Board) can determine if the applicant may qualify for consideration. If the applicant appears to qualify, he is sent a formal application. If on the other hand it appears that he does not qualify, a letter of explanation is sent to the potential applicant explaining to him why he may not be qualified. In that letter, the applicant is furthermore advised that the staff does not have the final approval or disapproval authority of the Board and therefore if he wishes to submit a formal application he certainly may do so.

In this current procedure the applicant does most of the processing himself. He does not verify registration and examination information needed from other boards if he is applying for reciprocity registration. This verification is done directly between boards.

In this new process, applicants can help themselves by following the instructions explicitly which are found in the application packet. References can also help applicants by responding immediately to requests for completion of the reference forms. Until such time as the reference forms are completed, placed in a sealed envelope (not to be opened by the applicant) and the complete application packet returned to the Board, the Board cannot give the applicant consideration.

All of you reading this article will at some time or other receive reference forms. Please don't delay responding to these reference forms because the applicant is at your mercy for completing the application process. Until such time as he completes the application process, the Board cannot give the applicant consideration.

The new two step approach to processing the PE application has improved the processing by:

1. Making it possible for the staff to tell the unqualified applicant up front when he submits a pre-application that "in the opinion of the staff he or she does not qualify" thereby avoiding a long, tedious, formal application process and expense.
2. Placing the responsibility for processing of an application on the applicant directly and taking a Board clerk out of the middle of a no win situation has relieved both staff personnel and the applicant. Applicants may now be frustrated for references not responding, however, the Board clerk is not in the middle of the unresolved issues.

The two step procedure has been implemented for professional engineer registration applicants only and not for professional land surveyor applicants at this time.

Yes, the processing of a professional application is a tedious and frustrating exercise. How you can help the process? Follow the instructions you receive in responding to reference forms and return the form as instructed in a timely manner.

Does the registration process serve its purpose — of protecting the public? Yes, I think it does.

Can the registration process be improved? Yep sure can and we're working on it.

January 20, 1994

Board Letter To:

A Public Works Director of A City in Louisiana

Dear Mr. Director:

I refer you to your letter of November XX, 1993 which posed five questions to the Board regarding approval, acceptance, and sealing of construction plans for subdivisions. Each question posed has been restated and a response follows the restatement.

1. Is it a requirement under State Statutes and/or Bylaws of your organization to require the signatures of both City Engineer and Project Engineer on all Construction Plans for subdivision improvements (Infrastructure) to be dedicated to local governments? La. R.S. 33:112 directs municipalities to develop subdivision regulations. If you have written subdivision regulations/ordinances, they should be followed. I am unaware of other statutes or rules which may apply other than LAC TITLE 46:LXI 1701(B), which I will mention later. Standard practice is for plans to be prepared by a professional engineer (project engineer). These are submitted to the municipality for review and approval before construction begins. Upon completion of construction, a professional engineer (project engineer) verifies the as built and submits them to the municipality for record. LAC TITLE 46:LXI 1701(B) requires the registered professional engineer to seal and sign plans submitted to the governmental agency as completed work.
2. Can the Project Engineer of a private subdivision also be the City Engineer for the community or City for which the subdivision is proposed? No! Conflict of Interest Exists. The project engineer responsible for the subdivision cannot also act as the City Engineer. LAC TITLE 46:LXI 2107(E) governs the PE.
3. Can a City Engineer be affiliated or hold interest in any consulting engineering firm that prepares subdivision construction plans for a private developer and that will require the submission to and review and approval by the City? Yes, he could, as long as he does not review and approve work done by himself or another person within his firm or one with which he is affiliated. That means that when the contracted City Engineer (individual or firm) is involved in preparation of subdivision construction plans he cannot also be the reviewer of those plans for the city. In those instances, the city would have to select another professional engineer to accomplish the independent review as "city engineer".
4. Can construction plans prepared by one engineer be signed by another engineer after they have been completed? Only in the situation of an out of state registrant as found in LAC TITLE 46:LXI 1701(H). LAC TITLE 46:LXI 1701(D) also prohibits Louisiana P.E.'s from sealing work not done under their complete direction and control as such is defined in 1701(E) (1) to (4).

Continued on page 13



1994 - State of Louisiana Board of Registration for Professional Engineers and Land Surveyors

Front Row (left to right) - Sam L. Sullivan, Jr., P.E.; Paul L. Landry, P.E., Executive Secretary; Morris P. Hebert, P.L.S., Secretary; Coan J. Bueche, PE/PLS, Chairman; William J. Thevenote, Jr., P.E., Vice Chairman; Benjamin S. Harrison, Board Investigator.

Back Row (left to right) - Vernon F. Meyer, PE/PLS; Charles L. McDonald, P.L.S.; Richard M. Primeaux, PE/PLS; Albert J. Dunn, PE/PLS

Absent - Larry A. McKee, PE/PLS; Randall F. Barron, P.E.; Richard E. Ruckstuhl, PE/PLS

BOARD MEETING NOTICE

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

1994

March 21-22 June 6-7 July 25-26 Sept. 26-27 Nov. 7-8

SCHEDULE OF EXAMINATION DATES

Examination	Examination Date	Application Postmark Date
Principles & Practice of Engineering (8 hr.)	04/15/94	01/17/94
Civil (Including Structural & Sanitary), Chemical, Electrical & Mechanical	10/28/94 04/07/95	08/01/94 01/09/95
Agricultural, Control Systems, Environmental, Industrial, Metallurgical, Mining, Nuclear and Petroleum	10/28/94 10/27/95 10/25/96	08/01/94 07/31/95 07/29/96
Principles & Practice of Land Surveying (6 hr.)	04/15/94 10/28/94 04/07/95	10/18/93 05/02/94 10/10/94
LA Laws & Procedures of Land Surveying (2 hr.)	04/15/94 04/07/95 04/19/96	10/18/93 10/10/94 10/23/95
Fundamentals of Land Surveying (8 hr.)	04/16/94 10/29/94 04/08/95	10/18/93 05/02/94 10/10/94
Fundamentals of Engineering (8 hr.)	04/16/94 10/29/94 04/08/95	01/17/94 08/01/94 01/09/95

Application — NOT Pre-application — must be postmarked not later than the date indicated before an applicant will be considered for the respective examination. Note that the approximate interval between postmark dates and examination dates is 180 days for land surveying examinations 90 days for engineering examinations.

The Board may schedule an applicant for an examination later than the examination requested by the applicant and cannot guarantee that the applicant will be scheduled for the examination initially requested.

An oral examination will be scheduled for Professional Land Surveyor applicants prior to any required written examinations.

Nôtre Métier

Continued from page 12

5. Should construction of improvements be allowed before construction plans have been approved by the City? No. We have no regulations which address this but La. R.S. 33:115 may apply and if it doesn't then the city should have an ordinance as part of its subdivision guidelines which prohibit this from occurring.

In general, a city needs to have an ordinance which requires a City Engineer (full-time employee or long-term consultant) to be responsible for reviewing and approving all submittals. The ordinance should require approval before any construction begins and should also require as built to be submitted for the record x number of days before the city accepts the utilities or infrastructure.

Thank you for the opportunity to address the issues you presented.

Very truly yours,

Paul L. Landry, P. E.
Executive Secretary

Engineering the Future

Continued from page 10

Engineering Areas

Just in the area of engineering there are many aspects to telecommunications. Radio is still important for broadcast, line of sight microwave and satellites (especially very small aperture satellite (VSAT) systems. New radio engineering areas include cellular telephones, personal communication systems (PCS) and wireless data communications. In the wireline area, engineers are squeezing more and more bits/sec onto twisted pair copper telephone lines. There are now committees developing standards for 100 megabit/second data distribution for local area networks and six megabit/second lines to deliver compressed video signals to the home. In fiber optics we can now send 2.5 gigabits/second on a single strand over 100 miles without a repeater. Fiber for cable and lasers to drive those cables and electronics to drive the lasers all require engineering.

In the networking area, there are many engineering problems. With 2.5 Gb/s on a fiber, there will be many different communicators using the same strand of glass. Setting up protocols for these Synchronous Optical Networks (SONET) have brought various services such as Switched Multimegabit Data Service (SMDS), Frame Relay, and Cell Switching via the Asynchronous Transfer Mode (ATM). The old hierarchical routing of telephone calls in the pre-1984 Bell System has been replaced by dynamic nonhierarchical routing. Routes for the traffic of bit packets are mapped out with the help of a separate packet switched network called signalling system 7. This signalling network connects to various data bases that give information for enhanced services. There is much engineering to be done to develop and deliver these services.

A hot topic for engineers is network management. The networks are now large with multiple users using multiple protocols for multimedia traffic. Standardization of management so that networks of components (both hardware and software) from different vendors can be managed is a perpetual development process. The merging of computers, telephones and television has brought together engineers who use different terminology for essentially the same operations. Standards committees have a major job to bring them to a common network purpose.

The 1994 International Communications Conference sponsored by the IEEE Communications Society and the Supercomm conference and trade show sponsored by the USTA and the TIA will meet together in the New Orleans Convention Center, May 1-5, 1994. We welcome all LES members to come and see the breadth of our vibrant industry.

Education for the Offshore Engineer

by: Dr. Robert Latoree
University of New Orleans

Educational Approaches

The exploration and development of offshore oil and gas fields has resulted in development of offshore structures beginning in 1960 with the introduction of the bottle stabilized drilling rig. This has continued to today's semisubmersible drilling rig. These develop-

Continued on page 24

SINCE 1984



Metallurgical and Materials Technologies Inc.

- Failure Analysis
- Materials Selection
- Quality Assurance
- Database Research
- Mechanical Testing
- Corrosion Testing
- Stress Analysis
- Materials Characterization Studies

- Metallurgists
- Engineers
- Laboratories

(504) 751-6876 • 1-800-772-0251 • Fax: (504) 751-6894

11841 Dunlay Avenue • Baton Rouge, LA 70809

Thomas C. Shelton, Ph.D., P.E. • Reg. No. 21193

AS
INSURANCE
SPECIALISTS

SERVING DESIGN PROFESSIONALS IN PRIVATE PRACTICE

PROFESSIONAL LIABILITY INSURANCE

LOSS PREVENTION • RISK MANAGEMENT ASSISTANCE

ALEXANDER & SANDERS INSURANCE

9613 BROOKLINE • BATON ROUGE • 70809 • 504/924-1371

PARTNERING FOR DESIGN PROFESSIONALS: Assuring Effective Project Management and Achieving Quality Results

Executive Summary

The American Consulting Engineers Council and The American Institute of Architects strongly support the concept of partnering and the proactive role design professionals can play in the process. The benefits are clear: projects that are completed on time, within budget, to high standards, and to the satisfaction of everyone.

In particular, ACEC and the AIA firmly believe that for public projects successful partnering begins with use of qualifications-based selections. ACEC and AIA believe:

- Partnering is a cooperative relationship between the providers and recipients of a product or service in which a "team attitude" is established and a successful outcome achieved.
- Partnering does not establish or replace the legal or contractual relationship between provider and recipient of products and services.
- Partnering is a way of doing business that enhances the desired project result within the legal or contractual relationship.

ACEC and AIA cite three key ingredients to successful partnering:

- A positive attitude that promotes commitment, trust, understanding, and excellence.
- Preparation that establishes clear expectations and mutual goals and objectives.
- Perseverance, in which partners commit to execution, responsiveness, open communication, and feedback.

For partnering to work, participants must:

- Undertake early preparation and education.
- Secure management commitment.
- Hold a joint partnering workshop.
- Create a partnering charter at the workshop.
- Establish regular communication.
- Conduct final evaluation and reach project closure.

Finally, ACEC and AIA emphasize the following considerations. First, partnering holds great promise as a means of preventing disputes from ever occurring. Second, a partnering relationship is "extra-contractual" and cannot itself deal with the matter of risk allocation. Third, all partners in a relationship must understand that the agreements reached on the project apply only to that project. Finally, for partnering to accomplish the goals set out for it, conscious efforts must be made to involve stakeholders, even if it complicates the interaction and the protocols established to manage it.

What Is Partnering?

Partnering is a way of doing business that helps providers of services and the recipients of them work together to achieve both their mutual and individual goals and objectives. It is particularly relevant in the current business climate, in which economic, technological, and legal considerations make each and every project a challenge to complete on time, within budget, and to the recipient's satisfaction.

To clarify the meaning and purpose of partnering for design professionals, this guide first examines the definition of partnering, as

viewed by five organizations with experience in the construction industry, and where partnering has already been successfully applied.

The U.S. Army Corps of Engineers (USACE) offers the perspective of the recipient of services, either for itself or, more commonly, on behalf of a public agency. The Associated General Contractors of America (AGC) considers the view of providers of construction services. The Construction Industry Institute (CII), a consortium of public organizations and private firms from both the engineering and construction arenas, takes a combined view. The American Consulting Engineers Council (ACEC) and The American Institute of Architects (AIA) present the view of consulting professionals involved in finding design solutions.

The ACEC and AIA believe that partnering and the ethical bond between provider and recipient of services leading to the provision of excellent products and quality service has strong roots in the design profession. Unfortunately, the increasing concern about liability and the use of litigation to mete out responsibility and blame when projects fall short of requirements and expectations has soured many such relationships and replaced them with distrust and an adversarial environment. The ACEC and AIA present the view that partnering is the way to restore trust and project excellence to the satisfaction of all parties.

USACE: A Perspective of the Recipient of Services

The following definition comes from the USACE Pamphlet, Partnering (Alternative Dispute Resolution Series Pamphlet #4/IWR Pamphlet-91ADR-P-4).

Partnering is the creation of an owner-contractor relationship that promotes the achievement of mutually beneficial goals. It involves an agreement in principle to share the risks involved in completing the project, and to establish and promote a nurturing partnership environment.

Partnering is not a contractual agreement, however, nor does it create any legally enforceable rights or duties. Rather, partnering seeks to create a new cooperative attitude in completing government contracts. To create this attitude, each party must seek to understand the goals, objectives, and needs of the other—their win situation—and seek ways that these objectives can overlap.

AGC: A Perspective of the Provider of Construction Services

In its publication, Partnering: A Concept for Success, AGC offers the following definition.

The partnering concept is not a new way of doing business—some have always conducted themselves in this manner. It is going back to the way people used to do business when a person's word was a bond and people accepted responsibility. Partnering is not a contract, but a recognition that every contract includes an implied covenant of good faith.

While the contract establishes the legal relationships, the partnering process attempts to establish working relationships among the parties (stakeholders) through a mutually developed, formal strategy of commitment and communication. It attempts to create an environment where trust and teamwork prevent disputes, foster a cooperative bond to everyone's benefit, and facilitate the completion of a successful project.



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



CII: A Dual Perspective

The CII task force on partnering defines the concept in the following way.

A (long-term) commitment between two or more organizations for the purpose of achieving specific business objectives by maximizing the effectiveness of each participant's resources. This requires changing traditional relationships to a shared culture without regard to organizational boundaries. The relationship is based on trust, dedication to common goals, and an understanding of each other's individual expectations and values. Expected benefits include improved efficiency and cost effectiveness, increased opportunity for innovation, and the continuous improvement of quality products and services.

While USACE and AGC define partnering in the context of short-term project relationships, CII uses partnering in the context of long-term relationships or strategic alliances.

ACEC and AIA: A Perspective of the Design Professional

The ACEC and AIA believe partnering represents an important opportunity for their members to manage projects more effectively and achieve quality results. They believe partnering is integral to quality management and its goal of meeting the client's expectations. They define partnering in the following way:

Partnering is a cooperative relationship between the providers and recipients of a product or service in which a team attitude is established and a successful outcome achieved.

Partnering does not establish nor replace the legal or contractual relationship between provider and recipient of products and services.

Partnering is a way of doing business that enhances the desired project result within the legal or contractual relationship.

A project can be seen to involve a series of steps from identifying the need, developing a plan (pre-design), setting a budget, preparing a design, beginning construction, and, finally, completing construction. The focus of USACE and AGC has initially been on beginning partnering at the construction phase. CII's focus has been on long-term relationships potentially involving many projects.

The ACEC and AIA seek to bring partnering forward to the planning phase and involve all parties at that point. This approach helps ensure the partnering process is applied in the earliest stages of project development when many of the construction decisions are locked in. It also creates a meaningful role for architects and engineers (the project designers) during the construction phase when they can serve as interpreters of the contract documents and their intent.

Prior to identifying the working arrangements that facilitate the partnering relationships, it is useful to identify what the parties must bring to the table to make partnering work.

What Are the Ingredients of Successful Partnering?

What makes partnering work? There are a handful of criteria for success. Some have to do with the attitude with which the partners enter into and maintain the relationship. Others reflect the type and level of preparation perseverance that the partners engage in as they establish and maintain the partnership.

Successful Partnering Depends on a Positive Attitude

The essence of partnering is the courage to change old attitudes. Important supporting elements include:

Commitment. All participants, particularly management, must support the intent and the goals of the relationship. Partners should enter into the relationship with a winning attitude.

Trust. Teamwork depends on mutual trust. Trustworthiness stems from words and actions being clear and consistent, based on competency and character, and substantiated by demonstrated efforts to follow through.

Understanding. Stakeholders must respect each other's feelings, responsibilities, expectations, and limitations. They also must expect and accept honest differences of view.

Excellence. Partners strive to create the best possible product or deliver a premium service. Partners should expect and encourage a mutually agreeable level of excellence as a standard of the working relationship.

Successful Partnering Depends on Preparation

Proper preparation is essential in order to meet certain criteria.

Clear Expectations. Each partner must establish and communicate the expectations, needs, and agenda that drive his or her participation. An open mind is essential, but so too is understanding one's own purposes in becoming a partner. Stakeholders should establish collectively a hierarchy of expectations.

Expectations should focus on contributing to both mutual and individual project goals. Also, participants should be prepared to provide real commitment to the process, not only during the initial workshop, but throughout the project.

Mutual Goals and Objectives. Each partner should fully articulate his goals and objectives for the project. Then, as discussions ensue between partners at the workshop and follow-up meetings during the project, mutual interests should be identified. Common ground means shared purpose and energy toward problem solving and goal achievement in areas such as limiting costs, minimizing paperwork, applying low-cost technologies, and avoiding litigation.

Successful Partnering Depends on Perseverance

To make the process work requires each participant to stick to it, to persevere and sustain his or her commitment to the process. Key areas to follow through on the commitments may include:

Execution and Responsiveness. Partnering works when people do their jobs in a timely way and follow through on commitments. This comes from being prepared and is facilitated by the initial workshop. Execution is helped also by the open, ongoing communications that follow.

Good communications should include setting up protocols to resolve issues routinely. It will also entail raising more difficult disputes to a higher level when needed. None of these approaches should involve adversarial means.

Communication and Feedback. Agreeing to partner is only the beginning. Constant communication is necessary to assess and evaluate progress toward the achievement of the goals and objectives. Partners must prepare their project managers to act on feedback, especially when it is aimed toward achieving the success of the product or service.

Continued on page 20

REGISTRATION FORM LES/ASCE JOINT MEETING

LES HONORS AND AWARDS MEETING
1994 ASCE SPRING MEETING

MARCH 16-19, 1994
BATON ROUGE, LA

REGISTRATION FEES ¹	NO.	Cost	Sub-Total
Members Pre-Registered ²	_____	@ \$30.00	= \$ _____
Members not Pre-Registered	_____	@ \$40.00	= \$ _____
Spouses	_____	@ FREE	= \$ 0.00
Students	_____	@ \$10.00	= \$ _____
WEDNESDAY GOLF TOURNAMENT ³			
Members/Guests	_____	@ \$35.00	= \$ _____
THURSDAY COCHON DE LAIT			
Students & Members			
Pre-Registered	_____	@ FREE	= \$ 0.00
Members Not Pre-Registered	_____	@ \$15.00	= \$ _____
Spouses/Guests	_____	@ \$15.00	= \$ _____
Students Not Pre-Registered	_____	@ \$15.00	= \$ _____
FRIDAY LUNCHEON			
Members	_____	@ \$12.00	= \$ _____
Spouses	_____	@ \$12.00	= \$ _____
Students	_____	@ \$ 6.00	= \$ _____
FRIDAY AWARDS BANQUET			
Members	_____	@ \$16.00	= \$ _____
Spouses	_____	@ \$16.00	= \$ _____
Students	_____	@ \$ 8.00	= \$ _____
Award Recipient	_____	@ FREE	= \$ 0.00
FRIDAY SPOUSE TOUR			
Spouse	_____	@ \$16.00	= \$ _____
TOTAL FEES REMITTED			\$ _____

1/Registration Fees are required for anyone attending the conference seminars on Thursday and Friday.

2/Prepaid discount applies only if registration and payment are received by March 11th.

3/Santa Maria Golf Course - Open to everyone

NAME _____

Please indicate which of the concurrent sessions you will most likely attend.

(This will not preclude your attending any of the individual presentations.) Circle one from each group: [1A or 1B] [2A or 2B] [3A or 3B] [4A, 4B, or 4C]

SPOUSES NAME (If Attending) _____ TELEPHONE _____

ASCE SECTION BRANCH _____ WORK () _____

LES CHAPTER _____ HOME () _____

COMPANY/UNIVERSITY _____

MAILING ADDRESS _____ CITY _____ STATE _____ ZIP _____

THIS CONFIRMS A TELEPHONE REGISTRATION

PLEASE MAKE CHECKS PAYABLE TO: ASCE/LES CONFERENCE

Mail this form and payment to: ASCE/LES Conference, c/o Brin Kern, Neel-Schaffer, Inc., 5637 Galeria Drive, Suite 103, Baton Rouge, LA 70816. To register by phone, please call Brin Kern (504) 292-4722, FAX (504) 292-2589

Hotel Reservation Card Joint Meeting Louisiana Engineering Society and American Society of Civil Engineers March 16-19, 1994 Holiday Inn South, Baton Rouge, LA

Please register early. Reservations must be received by FEBRUARY 23, 1994. On that date the rooms will be placed on a first come, first serve basis.

CLIP OR
REPRODUCE &
MAIL TO:

HOLIDAY INN SOUTH
9940 Airline Hwy.
Baton Rouge,
LA 70816

(504) 924-7021

Your Arrival Date _____ Your Departure Date _____

Name (print) _____

Address _____

City _____ State _____ Zip _____

Please check type of room requested.

☐ Tower Room \$66.60

☐ Courtyard Room \$55.50

The above rates include taxes and are for single, double, triple or quad occupancy.

All reservations on Monday thru Thursday require a credit card deposit.

Credit Card and Number _____

Expiration _____

Hotel accepts American Express, Visa, Master Charge, Diners Club, Carte Blanche and Holiday Inn Corporate Card.

PROGRAM

(Please review the program carefully as there have been some changes since the December issue of the Louisiana Engineer Magazine)

Wednesday, March 16, 1994

- 12:30 p.m. - 5:00 p.m. Golf Tournament
- 8:00 a.m. - 5:00 p.m. Project Management Workshop (sponsored by ASCE)
- 9:00 a.m. - 4:30 p.m. Life Safety Code Workshop (sponsored by LSU and the LES Professional Engineers in Private Practice)

Thursday, March 17, 1994

- 9:00 a.m. - 5:00 p.m. Registration
- 12:00 Noon - 5:00 p.m. Exhibits
- 1:00 p.m. - 2:30 p.m. Practice Division Meetings
- 1:00 p.m. - 2:30 p.m. ASCE Louisiana Section Council of Civil Engineering Department Chairs
- 2:45 p.m. - 4:15 p.m. Welcome by Baton Rouge Mayor Tom Ed McHugh
- Plenary Session (Joint Session)
- State Board of Registration
- Engineering Practice Rule Changes
- ASCE Board of Directors Meeting
- Icebreaker Party - Cochon De Lait
- 4:30 p.m. - 6:30 p.m.
- 7:00 p.m. - 10:00 p.m.

Friday, March 18, 1994

- 8:00 a.m. - 11:30 a.m. Registration
- 8:00 a.m. - 5:00 p.m. Exhibits
- 8:00 a.m. - 10:00 a.m. Morning Snacks (Exhibit Area)
- 8:00 a.m. - 9:30 a.m. Technical Session - 1A
- "TQM - Is It Good For You?"
- 8:00 a.m. - 9:30 a.m. Technical Session - 1B
- "EPA Regulations/Wetlands"
- 8:00 a.m. - 9:30 a.m. LES Inter-Society Relations Committee
- LES Long Range Planning Committee
- Spouse Tour
- 9:30 a.m. - 9:45 a.m. Exhibit Workshop/Break
- 9:45 a.m. - 11:15 a.m. Technical Session - 2A
- "PC Update/Latest Hardware Technology"
- 9:45 a.m. - 11:15 a.m. Technical Session - 2B
- "Highway Structures"
- 9:45 a.m. - 11:15 a.m. LES Legislative Committee
- LES Executive Committee/Liaison w/State Board of Registration
- Exhibit Workshop/Break
- 11:15 a.m. - 11:30 a.m. Luncheon
- 11:30 a.m. - 1:15 p.m. Tentative Speaker: William Kucharski, Secretary, DEQ
- 1:15 p.m. - 1:30 p.m. Exhibit Workshop/Break
- 1:30 p.m. - 3:00 p.m. Technical Session - 3A
- "Trenchless Construction/Horizontal Drilling"
- 1:30 p.m. - 3:00 p.m. Technical Session - 3B
- "Civil Engineering Faculty Form"
- 1:30 p.m. - 3:00 p.m. LES Membership Committee
- LES Young Engineers
- LES Public Relations Committee
- LES Nominating Committee Meeting
- 1:30 p.m. - 3:00 p.m. Louisiana Engineering Foundation
- 3:00 p.m. - 3:15 p.m. Exhibit Workshop/Break
- 3:15 p.m. - 4:45 p.m. Technical Session - 4A
- "ASCE Student Papers"
- Technical Session - 4B
- "LES Student Papers"
- Technical Session - 4C
- "Remote Sensing Image Processing/GIS"
- LES Constitution and Bylaws Committee
- 4:45 p.m. - 5:45 p.m. ASCE General Membership Meeting
- 4:45 p.m. - 5:45 p.m. LES General Membership Meeting
- 6:00 p.m. - 7:00 p.m. Cocktails
- 7:00 p.m. LES/ASCE Awards Banquet

Saturday, March 19, 1994

- 8:00 a.m. LES Board of Direction Meeting
- 10:00 a.m. ASCE Student Regional Conferences

EVENTS

Please pick up a registration package at the conference before attending events for up-to-date details.

PROJECT MANAGEMENT WORKSHOP - WEDNESDAY - Registration and description of this workshop is not included on the LES/ASCE Registration form, but may be found elsewhere in this magazine.

LIFE SAFETY CODE WORKSHOP - WEDNESDAY - Registration and description of this workshop is not included on the LES/ASCE Registration form, but may be found elsewhere in this magazine.

GOLF TOURNAMENT - WEDNESDAY

A golf tournament (shotgun start) will be held on Wednesday afternoon at Santa Maria Golf Course. All members, guests, sponsors and exhibitors are invited to participate for a fee of \$35. Hot hors d'oeuvres and soft drinks will be provided.

PLENARY SESSION - THURSDAY

The plenary session will be held at the Holidome and a welcome presentation will be made by Baton Rouge Mayor Tom Ed McHugh. Dale Hunn, President, Louisiana Engineering Society, and Henry T. Graham, Louisiana Chemical Association, Director of Environmental and Legal Affairs, will discuss State Board of Registration engineering practice rule changes related to industry. Other items to be addressed include Definitions of Engineering and Surveying; Present, Past and Future Rule Changes; Present and Future Continuing Professional Development; Law Enforcement; and Future Registration Changes.

COCHON DE LAIT ICEBREAKER PARTY - THURSDAY

Thursday evening will be the time for you to enjoy a social gathering with members, spouses, students, guests, sponsors and exhibitors at White Oak Plantation. Cajun music entertainment will be provided. The Cochon De Lait menu will be roasted pork loins, cajun chicken and andouille jambalaya, maque choux corn with shrimp, salad and dessert. This function is free to all members and students that register for the conference. Spouses, guests, exhibitors, sponsors, non-registered members, and students are invited to attend for a fee of \$15.

NOON LUNCHEON - FRIDAY

This luncheon will be a deli buffet at the Holidome and will feature the Key Note Speaker who is tentatively scheduled to be William Kucharski, Secretary of Department of Environmental Quality. The cost will be \$12 for members and spouses and \$6 for students.

SPOUSE TOUR - FRIDAY

The registrants for the spouse tour will meet at the Holidome at 8:30 a.m. and head over to the Coffee Call Restaurant for coffee and beignets. Next, the tour will visit a small antique store village consisting of the following stores: Antique Gallery, Best Kept Secrets, Highland Road Antiques, and Rudolph's Christmas Shop. A tea luncheon will be held at Fireside Antiques & Interiors. The three course menu will include four assorted tea sandwiches; english breads, scones, jams and lemon curd; four assorted dessert pastries and a pot of steaming tea. The cost for the breakfast and luncheon will be \$16. We are expecting a large attendance this year so sign up soon!

PUBLICITY SESSION - FRIDAY, 6:00 P.M. - BANQUET ROOM - A photography session will be held at 6:00 p.m. for all LES, ASCE, and LEF award recipients and presenters. Spouses should accompany award recipients to this session.

AWARDS BANQUET - FRIDAY

This event will be held at the Holidome and will include awards presented by LES and the ASCE Louisiana Section. The menu will be salad, stuffed filet of flounder with crabmeat and cream sauce, stuffed potato, vegetable and dessert. The cost will be \$16 for members and guests and \$8 for students.

STUDENT CHAPTER CONFERENCE - FRIDAY & SATURDAY

The annual student chapter conference will be held Friday and Saturday and hosted by LSU and Southern. The concrete canoe and steel bridge competitions will be held on Saturday at LSU. Please attend the student competitions and show your support for our students.

LES MEETING AGENDAS

LES COMMITTEE MEETING AGENDAS

Inter-Society Relations Committee

1. Discuss Possible Future Joint Meetings

2. Critique Current Joint Meeting
 3. Review of Society Rosters
- Long Range Planning Committee**
1. LES/ASCE Meeting in Progress
 2. LES and Mississippi Engineering Joint Meeting
 3. LES Magazine Enhancements
 4. Past Presidents Gathering
 5. Chapter Presidents Gathering
 6. Senior and Retired Engineers Gathering
 7. Visioning Process-Further Discussion
 8. New Business

Legislative Committee

1. Upcoming Legislative Session
2. Old Business

Executive Committee/Liaison Committee w/State Board

1. Review Status of Recommendations for Board of Registration Vacancies Occurring in 1994
2. Review Appointments for Vacancies to Occur in 1995
3. Discussion of Current NSPE Initiatives Which May Affect the Registration:
 - National Technical University
 - Mandatory Continuing Professional Competency
 - National Professional Development Registry for Engineers
 - Fundamentals Exam Exemptions
 - Potential Affect of NAPTA Initiative
 - ABET and NSPE

Membership Committee Meeting

1. Old Business
 - A. Membership Drive
 1. Review of Membership Drive Month
 2. Phase II Membership Drive - Delinquents
 - B. Membership Dues: Payroll Deduction
2. New Business
 - A. Membership Recruitment Formula
 - B. Focus on 1994-95

Young Engineers Committee

1. Promotion of Students Chapters
 - A. Maintaining Contact With Existing Student Chapters
 - B. Development of a Student Column in the LE Magazine
2. Results of October Membership Drive
3. Comments on "Professional Engineer" Pamphlets
4. Changes in Registration Law

Public Relations Committee

1. Old Business
 - A. Public Relations Master Plan
2. New Business
 - A. Engineers Week
 - B. MATHCOUNTS

Constitution and Bylaws Committee

1. Constitution
2. Bylaws

LES PRACTICE DIVISION MEETING AGENDAS

Professional Engineers in Education

1. Introductions
2. Reading of Minutes of January 14, 1993 Meeting in Monroe
3. Financial Report
4. Old Business
 - A. Continued Discussions on Future Directions of the Louisiana Engineering Society and PEE
 - B. Meaningful Activities of the PEE Practice Division
 - C. More Involvement of Deans and Faculty Members in LES and PEE

- D. Report on Legislative Matters
- E. Report on 1994 NSPE Winter Meeting
- F. LES/PEE Engineer in Education Award
- G. Other

5. New Business

6. Adjourn

Professional Engineers in Government

1. Minutes from June Meeting
2. Status of Louisiana Board of Registration Member Replacement
3. Participation by PEG Governor or Designee @ National Meetings
4. Update on Systematic Approach to Defining an Engineering Program @ LADOTD
5. Election of Officers
6. Other Business

Professional Engineers in Industry

1. Call Meeting to Order
2. Secretary-Treasurer's Report
3. Old Business
 - A. Continuing MATHCOUNTS Incentive for Chapter Participation
 - B. Industry Visitation Program
4. New Business
 - A. Report on the Tucson NSPE PEI Meeting
 - B. PEI Strategies and Goals
 - C. Election of Officers
5. Adjourn

Professional Engineers in Private Practice

1. Call to Order
 - A. Attendance List
 - B. Agenda Acceptance/Modifications
2. Minutes of 25 June 1993 Meeting
3. Treasurer's Report
4. Old Business
 - A. Donation to LES
 - B. LDOTD Issues
 - Construction Rating System: Meeting PEPP, ASCE, CEC/L
 - Letter of 30 July 1993
 - LDOTD Joint Committee with CEC/L & PEPP Report
 - C. Industrial Advisory Committee
 - D. QBS Facilitator
 - E. Life Safety Code Seminar, Wednesday, March 16, Prior to Joint Meeting
 - F. Civil Service Work Load Allocation
 - G. Legislative Committee Report
 - H. Other Committee Issues/Old Business
5. New Business
 - A. 1994 Private Practice Professional Development Award
 - B. Nominees for Board of Registration Vacancy
 - C. Nominee for Selection Board
 - D. Louisiana Community Development Block Grant, Engineering Fees
 - E. Aviation Board Proposal
 - F. NSPE/PEPP Meetings
 - G. NICET Meeting of 7 October 1993
 - H. Nominating Committee for 1994-95 LES/PEPP Officers
 - I. LES Dues Increase
 - J. Other New Business
6. Announcements
 - A. TQM Seminar Wednesday, March 16, 1994
 - B. Other
7. Adjourn

In Memoriam

A donation to the

LOUISIANA ENGINEERING FOUNDATION

is a fine way to remember and honor a departed friend. A call, a fax or a letter to the Secretary of the LEF is all that is necessary to make your donation. The family of the deceased will be promptly notified, and the friend's name will be recorded on the Foundation's Memorial plaque.

LOUISIANA ENGINEERING FOUNDATION

P.O. Box 2683 • Baton Rouge, LA 70821 • Phone (504) 344-4318 • FAX (504) 344-4319

LES/ASCE JOINT MEETING
SCHEDULE OF TECHNICAL SESSIONS
MARCH 18, 1994

SESSION 1A - TOTAL QUALITY MANAGEMENT - IS IT GOOD FOR YOU?

Time: 8:00 a.m. - 9:30 a.m.

Speaker: Marvin M. Christensen, P.E.

TQM Systems, President

This session will focus on how Total Quality Management applies to engineering and related services.

SESSION 1B - EPA REGULATIONS/WETLANDS

Time: 8:00 a.m. - 9:30 a.m.

Moderator: Anne Power

A presentation will be made on recent developments in the area of wetlands. Tentative Speakers will be David G. Marschall, C-K Associates, and representatives from the U.S. Army Corps of Engineers and/or Department of Natural Resources.

SESSION 2A - PC UPDATE/LATEST HARDWARE TECHNOLOGY

Time: 9:45 a.m. - 11:15 a.m.

Moderator: James C. Porter, P.E.

Digital Equipment Corporation will make a presentation on "The Alpha AXP Advantage - Super 64 RISC Computing"

Discussion will include Computer Architectural Evolution, 64 Bit Technology, and Alpha Chip Overview

Digital will also make a presentation on "Advancements in Personal Computer (PC) Technology: Overview of PC Technology"

Discussion will include present and future personal computer products.

Speakers to be announced.

SESSION 2B - HIGHWAY STRUCTURES

Time: 9:45 a.m. - 11:15 a.m.

Moderator: Paul Fossier, P.E.

"Design of Highway Bridge Railing, Old and New"

Hossein Ghara, P.E., LADOTD

"Development and Implementation of AASHTO Guide Specifications for Vessel Collision Design of Highway Bridges"

Tony Ducote, P.E., LADOTD

"Redecking of the Greater New Orleans Mississippi River Bridge No. 1, Design and Construction"

Bruce E. Peterson, P.E., and Michael P. Freeman, P.E., Modjeski & Masters, Inc.

SESSION 3A - TRENCHLESS CONSTRUCTION HORIZONTAL DRILLING

Time: 1:30 p.m. - 3:00 p.m.

Moderator: Charles L. Eustis, P.E.

"Trenchless Construction Overview / Applications to New Construction and In Situ Refurbishment"

T. Lynn Chance, P.E., Camp Dresser & McKee

"Using Horizontal Direction Drilling for Installing Pipelines Across Various Types of Obstacles"

Charles W. Hair, III, P.E., Louis J. Capozzoli & Associates, Inc.

SESSION 3B - CIVIL ENGINEERING FACULTY FORM

Time: 1:30 p.m. - 3:00 p.m.

Moderator: Dr. John Niklaus, P.E.

Representatives from various Louisiana University Civil Engineering Departments will discuss current university education issues and ongoing research and developments.

Dr. John Niklaus, Chairman, Department of Civil Environmental Engineering, Tulane University

Dr. Richard Avent, Chairman, Department of Civil Engineering, Louisiana State University

SESSION 4A - ASCE STUDENT PAPERS

Time: 3:15 p.m. - 4:45 p.m.

Moderator: Mark Dubroc, P.E.

SESSION 4B - LES STUDENT PAPERS

Time: 3:15 p.m. - 4:45 p.m.

Moderator: Kerry J. LaBauve, P.E.

SESSION 4C - REMOTE SENSING IMAGE PROCESSING/GIS

Time: 3:15 p.m. - 4:45 p.m.

Moderator: Anne Power

The Remote Sensing and Image Processing Center of LSU will make a presentation on current remote sensing technology. The second half of the session will include a presentation on current Geographic Information System (GIS) technology.

Speakers to be announced.

**LIFE SAFETY TRAINING
A Workshop in Building Codes
WEDNESDAY, MARCH 16, 1994
HOLIDAY INN SOUTH, BATON ROUGE**

9:00 a.m. - 4:30 p.m.

FEE - \$95.00

Sponsored by LSU Short Courses and Conferences and LES Professional Engineers in Private Practice in conjunction with LES/ASCE Spring Meeting.

WHO SHOULD ATTEND?

Design Professionals Including:

- Civil Engineers
- Intern Engineers
- Architects
- General Contractors and Construction Managers

WHAT YOU'LL LEARN:

- How building codes have evolved in the United States
- Which codes regulate particular projects
- How to interpret building codes
- How the plan review process works
- How to prepare a code search for your next project

COURSE DESCRIPTION

The course is a one day workshop where participants will be given information on the development of building codes, major code groups, building

classification, mixed use occupancies, fire protection, EGRESS requirements, construction types, fire proofing, fire suppression systems and accessibility. Extensive use of case studies of actual architectural projects will be used to illustrate the code search and review process that a professional utilizes prior to submission of a project for permitting. Six hours of continuing education credit (.6 CEUs) will be awarded by LSU Division of Continuing Education upon completion of this course.

INSTRUCTOR

The instructor for the workshop is J. Michael Pitts, an architect and Professor of Architecture at Louisiana State University, who through years of professional experience as an architect and developer teaches courses about building codes in the professional program in the College of Design, School of Architecture.

TO REGISTER OR FOR MORE INFORMATION CALL LSU AT 388-6621 OR 1-800-256-6948

The Spec Sheet

Continued from page 15

Adequate preparation, perseverance, the proper ingredients, and a winning attitude are all part of the recipe for successful partnering. All help sustain the good intentions of project partners to do good work and achieve intended results.

(Source: *A Project Partnering Guide for Design Professionals*, a publication jointly produced by the American Consulting Engineers Council and The American Institute of Architects)

Acknowledgements

The American Consulting Engineers Council and The American Institute of Architects wish to thank the U.S. Army Corps of Engineers and the Associated General Contractors of America for their support in the development of this guide. They note particular thanks for permission to reproduce and modify appendices from USACE and AGC documents. For readers wishing more information on partnering, the ACEC and AIA commend to the readers the following materials developed by USACE and AGC.

Partnering (Alternative Dispute Resolution Series Pamphlet #4/IWR Pamphlet-91ADR-P-4) by the U.S. Army Corps of Engineers - For information, write to: Institute for Water Resources, Casey Building, Fort Belvoir, Virginia 22060-5586.

Partnering A Concept for Success by the Associated General Contractors of America - For information, write to: Associated

General Contractors of America, 1957 E Street, NW, Washington, DC 20006.

The ACEC and AIA further thank the following reviewers of the guide for their comments: Larry Bonine, director of the Arizona Department of Transportation; Gary Bates; James Dalton; Thomas Kvan; and Chip Wanner. Thanks also to the many staff at the ACEC and AIA who participated in this project.

ACEC and AIA request that firms that have undertaken partnered projects contact us to share the results of their experiences. Firms may provide a brief outline of how partnering was introduced to the project; what the partnering process entailed, including a copy of the partnering agreement or charter; key steps or incidents along the way; what difference partnering made on the project; and lessons learned. ACEC and AIA will compile this information and make it available to firms to help them in their efforts to partner. Firms should direct their experiences to:

Partnering Contact, American Consulting Engineers Council, 1015 15th Street, NW, Suite 802, Washington, DC 20005 (202) 347-7474 and to **Partnering Contact**, The American Institute of Architects, 1735 New York Avenue, NW, Washington, DC 20006 (202) 626-7300.LE

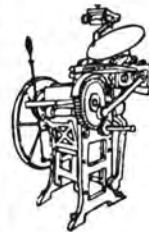
SERVICES & SUPPLIERS

PIPE & LEAK LOCATING

- ✓ LEAKS IN UNDERGROUND PIPES
- ✓ SEWER SYSTEM MAPPING
- ✓ LOCATION OF UNDERGROUND PIPES

LEAK TECHNOLOGY
div. PRO-AM, INC.
2974 HWY 43 NORTH
PICAYUNE, MS 39466

FRANK ZIMBELMAN, PE
NEW ORLEANS
583-1857
(800) 673-5726



FAX 355-2178
**PRINTING
INCORPORATED**
3019 PLANK ROAD (504) 357-5961
BATON ROUGE, LOUISIANA 70805

The Best People
The Best Equipment
For the Best Product!

We House A Complete
"Independent" Art Department
Ed's ep
**PRINTING
COMPANY, INC.**
925-0991
9366 Greenwell Springs Rd.
at Monterrey

Water King



James E. Bowie, Jr., Ph.D., P.E.

Acadiana Treatment Systems
103 Charbonnet Road
Duson, Louisiana 70529
(318) 988-2360
Fax: (318) 981-7922

USL (318) 231-6846

DRIVE SYSTEMS, INC.

5333 River Road New Orleans, LA 70123
(504) 733-8375 FAX (504) 733-0014

Your local RELIANCE Variable Speed & Programmable Control Specialist

- RELIANCE A-C and D-C V'S Drives and Motors
- REEVES Mechanical Adjustable Speed Drives
- MASTER & DODGE Reducers and Gearmotors
- Electrical & Mechanical Parts



Programmable Controllers

- SHARK / AutoMate / Automax
- ReSource ScreenWare 2 graphics

authorized stocking distributor
RELIANCE ELECTRIC

MECO®

Sea Water Conversion Equipment
Pharmaceutical Distilling Plants
Marine Heat Exchangers and Pumps
Reverse Osmosis Systems

MECHANICAL EQUIPMENT COMPANY, INC.
861 CARONDELET STREET, NEW ORLEANS, LA 70130 U.S.A.

PHONE: (504) 523-7271
TELEFAX: (504) 525-4846

TELEX: 460165

PROFESSIONAL LISTINGS

WALDEMAR S. NELSON AND COMPANY

INCORPORATED
ENGINEERS AND ARCHITECTS

1200 ST. CHARLES AVENUE
NEW ORLEANS, LA 70130



TELEPHONE: (504) 523-5281
FACSIMILE: (504) 523-4587
TELEX: 584351 NELSENG

COMPLETE ENGINEERING AND PROJECT MANAGEMENT SERVICES
43 YEARS OF EXPERIENCE SERVING INDUSTRY

- SITE PLANNING / PERMITTING
- CHEMICAL / PROCESS / PETROLEUM
- CIVIL / STRUCTURAL
- ELECTRICAL / ELECTRONIC
- ENVIRONMENTAL / SANITARY
- INSTRUMENTATION / CONTROLS
- CONSTRUCTION MANAGEMENT
- MONITORING / MODELING
- MECHANICAL
- PIPELINE
- MINING
- HVAC
- ARCHITECTURE
- ASBESTOS

Parsons Brinckerhoff

- Engineers
- Planners
- Designers
- Construction Managers

Urban Design • Highways/Civil • Bridges/Tunnels
Marine Facilities • Water Resources • Energy
Environmental Protection • Underground Facilities
Transit Systems/Transportation • Railroads
Mechanical/Electrical Systems • Agribusiness
One Lakeway Center • 3900 N. Causeway Blvd. • Suite 1480
Metairie, LA 70002 • (504) 830-0070 • (504) 830-0071 - FAX

BALAR

CONSULTING ENGINEERS



STEVEN W. BROWN, P.E.

BALAR ASSOCIATES, INC.
401 EDWARDS ST., SUITE 815
SHREVEPORT, LA 71101
(318) 221-8312
FAX (318) 424-6506

- CIVIL
- STRUCTURAL
- ENVIRONMENTAL



SIMMONS J. BARRY & ASSOCIATES

A UTILITY OPERATORS, INC. COMPANY

CONSULTING ENGINEERS
AND PROFESSIONAL LAND SURVEYORS
FOR INDUSTRIAL, GOVERNMENTAL, AND COMMERCIAL CLIENTS

POST OFFICE BOX 1751 BUS 504-769-3400
BATON ROUGE, LOUISIANA 70821 FAX 504-769-3596

LOURIE CONSULTANTS

geotechnical and geoenvironmental
consulting services

...quality measured in the client's terms

3924 Haddon Street
Metairie, Louisiana 70002-3011
Tel: (504) 887-5531
Fax: (504) 888-1994



Roger D. Melancon, P.E.

GULF INDUSTRIES, INC.

SAFETY ENGINEERING

P.O. BOX 309 • MANDEVILLE, LA 70470-0309
(504) 892-6500 • FAX (504) 892-0707



MONTGOMERY WATSON

3501 N. Causeway Blvd.
Suite 300
Metairie, Louisiana
70002

Telephone: 504 835 4252
Fax: 504 835 8059

Serving the World's Environmental Needs



ERM-Southwest, Inc.
ENVIRONMENTAL
CONSULTING
ENGINEERS &
SCIENTISTS



ATCHLEY & ATCHLEY, INC.
Consulting Civil Engineers • Land Surveyors • Planners

412 La Salle Street
Shreveport, Louisiana 71107
318-222-5821
Ben D. Atchley Sr. P.E., P.L.S.
Ben D. Atchley Jr. P.E., P.L.S.



CORPORATE OFFICE
17170 PERKINS ROAD
BATON ROUGE, LA 70810
(504) 755-1000
FAX: (504) 751-2010

YOUR FULL SERVICE
ENVIRONMENTAL
CONSULTANT

LAMY J. CHOPIN, JR., P.E.

Engineered Solutions to Regulatory Issues
Baton Rouge • Lake Charles • Shreveport • Beaumont-Port Arthur



LOUIS J. CAPOZZOLI & ASSOCIATES, INC.
Geotechnical Engineers

Engineering Consultation
Laboratory and Field Testing
Land and Marine Site Explorations

10555 Airline Highway Baton Rouge, LA 70816-4199
Telephone (504) 293-2460 Fax (504) 293-2463



ALLIANCE, INC.

Architecture • Engineering • Planning
Airport Consulting • Surveying

Petroleum Square, Suite 100 1824 North Hearne Avenue
Shreveport, LA 71107 FAX (318) 221-7635
Phone (318) 221-7501



Consulting Engineers

Municipal and Industrial
Consultants and Designers

P.O. Box 700, Baker, La. 70714 (504) 775-4800

MEYER, MEYER LaCROIX & HIXSON, INC.

Consulting Engineers & Land Surveyors

P. O. Drawer 5444
3666 Government St.
Alexandria, Louisiana 71301
Telephone (318) 448-0888

P. O. Drawer 1245
401 West Mississippi Ave.
Ruston, Louisiana 71270
Telephone (318) 255-7236

James L. Meyer, P.E., R.L.S. R. B. LaCroix, R.L.S.
Arthur E. Meyer, P.E., R.L.S. T. D. Hixson, P.E., R.L.S.



pyburn & odom, inc.

RIVER CROSSINGS • WATERFRONT STRUCTURES
HYDROGRAPHY • HIGHWAYS • INDUSTRIAL SITES
ENVIRONMENTAL STUDIES • SINCE 1948

8178 GSR1 AVENUE • BATON ROUGE, LA 70820-7405 • (504) 766-6330

FORTE AND TABLADA, INC.

CONSULTING ENGINEERS

OFFICE (504) 927-9321 • FAX (504) 927-9326
P.O. BOX 64844 • BATON ROUGE, LA 70896
9107 INTERLINE AVE. • BATON ROUGE, LA 70809



professional engineering
consultants corporation

Consulting Engineers

1450 Seaboard Drive
Baton Rouge, La. 70810 (504) 769-2810

TQM Systems®

Making Quality a Reality

12382 Mollylea Drive
Baton Rouge, LA 70815-6616
Phone: 504-273-4972

M.M. "Mickey" Christensen, P.E.
President IQA Assessor # A003773



BROWN & BUTLER, INC.
Consulting Engineers and Land Surveyors

General Civil Engineering & Land Surveying

8335 KELWOOD AVE.-SUITE D PH. 504/ 924-0235
BATON ROUGE, LA 70806-4804 FAX: 504/ 926-1687



THE MEYER GROUP



Meyer and Associates, Inc.
Engineers • Planners
Vernon F. Meyer and Associates, Inc.
Surveyors
The Meyer Group, Inc.
Project & Construction Management

600 Cities Service Hwy., P.O. Box 2149 • Sulphur, Louisiana 70664 • (318) 625-8353
5525 Mounes Street, Suite 102 • New Orleans, Louisiana 70123 • (504) 733-3770

RPM ENGINEERING, INC.

A PROFESSIONAL ENGINEERING CORPORATION



9969 Professional Boulevard
Baton Rouge, LA 70809
(504) 292-9901

 SALMON & ASSOCIATES, INC. Consulting Engineers serving the Chemical, Petrochemical, Petroleum and Metallurgical Industry 626 HIGHLANDIA BATON ROUGE, LA 70810 (504) 752-7250	Office Ph. (504) 868-1050 N.O. Ph. (504) 586-8222 Home Ph. (504) 872-6003 FAX Ph. (504) 868-5843 T. BAKER SMITH & SON, INC. CIVIL ENGINEERS & SURVEYORS LAND - OFFSHORE - HYDROGRAPHIC ENVIRONMENTAL RESEARCH 550 South Van Ave. P.O. Box 2266 Houma, LA 70361 WM. CLIFFORD SMITH, P.E., L.S. President	QED Quest Engineering & Development Corp. Specializing In: STRUCTURAL & EQUIPMENT DESIGN, REDESIGN, FAILURE ANALYSIS, & COMPUTER FEM SIMULATION. 7500 North Belt-Humble (Houston) TX. 77396 Call: SAM BROWN, Ph.D., P.E. (713) 441-2525
 WALK, HAYDEL & ASSOCIATES, INC. - Project Managers - Engineers - Construction Managers 600 Carondelet St. New Orleans, LA 70130 (504) 586-8111 Baton Rouge Mobile Little Rock	LC LaBauve and Company CONSULTING ENGINEERS CIVIL STRUCTURAL 3717 GOVERNMENT ST. ALEXANDRIA, LA 71302 318-445-8910	RODI & SONGY CONSULTING ENGINEERS AND LAND SURVEYORS 5800 One Perkins Place, Suite 9-A Baton Rouge, LA 70808 (504) 769-0546 Ronald J. Rodi, P.E. Michael B. Songy, P.E., P.L.S.
COYLE ENGINEERING CO., INC.  MEMBER CHARLES G. COYLE, P.E. P.O. BOX 6177 3925 BENTON RD. BOSSIER CITY, LOUISIANA 71171-6177 PHONE (318) 746-8987	DAVID VOLKERT & ASSOCIATES, INC. ENGINEERS • ARCHITECTS • PLANNERS 3500 N. Causeway Blvd • Suite 1240 Metairie, LA 70002 (504) 837-6234 • FAX (504) 837-6237 Major offices in Metro Washington, D.C. Mobile, AL • Tampa & Miami, FL	Office (504) 632-5596 Res. (504) 632-5646 J. W. P., INC. <i>J. Wayne Plaisance, Inc.</i> Civil Engineers • Land Surveyors JOHN J. PLAISANCE, II Post Office Drawer 730 President Galliano, Louisiana 70354
Alliet, Fenner, Jolly & McClelland, Inc. Consulting Civil & Structural Engineers Robert R. Alliet, Robert D. Fenner, Leland H. Carter Richard R. Alliet, Gary W. Fenner 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. 1055 Louisiana Avenue Shreveport, Louisiana 71101 AC 318 425-7452	MODJESKI AND MASTERS CONSULTING ENGINEERS Bridges • Highways • Structures Mass Transit • Special Foundations Reports Inspections Design Inspection of Construction 1055 St. Charles Ave., New Orleans, La. 70130 (504) 524-4344	3645 Williams Boulevard Suite 206 Kenner, LA 70065-3464 504 443 3437  BUCHART HORN, INC. Engineers, Architects and Planners
 ♦ CONSULTING ♦ ENGINEERING ♦ PROCUREMENT ♦ CONSTRUCTION 100 YEARS OF ENGINEERED SOLUTIONS MONROE JACKSONVILLE EDISON ATLANTA 318/323-9000 904/730-8400 908/287-7800 404/717-3830	HNTB ARCHITECTS ENGINEERS PLANNERS Comprehensive Services in - Aviation - Construction Management - Bridges and Structures - Environmental Services - Civil Engineering - Transportation and Planning HNTB CORPORATION Catfish Town, Suite J-200, 100 St. James Street Baton Rouge, LA 70802 (504) 346-0006	 Metallon, Inc. Metallurgical Testing Laboratories 2524 Sutherland Houston, Texas 77023 (713) 923-7761 Mechanical Testing Chemical Analysis Specimen Machining Metallographic Evaluation
DOMINGUE SZABO & ASSOCIATES, INCORPORATED PROFESSIONAL ENGINEERS & LAND SURVEYORS 400 East Kaliste Saloom Road Suite 1100 P.O. Box 52115 Lafayette, LA 70505 2115 (318) 232-5182 LA WATTS (800) 737-5182 FAX (318) 237-7132	SWL SOUTHWESTERN LABORATORIES ENGINEERING & ENVIRONMENTAL SERVICES Louisiana Locations SHREVEPORT • MONROE BATON ROUGE • ALEXANDRIA	 DEMOPULOS & FERGUSON, INC. CONSULTING ENGINEERS SINCE 1953 •ENGINEERS • ARCHITECTS • PLANNERS 401 Edwards - Suite 1600 - Shreveport, Louisiana 71101-5530 - (318) 221-7117 2603 Augusta - Suite 880 - Houston, Texas 77057-5638 - (713) 783-7117
BURK-KLEINPETER, INC. ENGINEERS ARCHITECTS PLANNERS ENVIRONMENTAL SCIENTISTS - CIVIL - STRUCTURAL - MECHANICAL - HIGHWAY - DRAINAGE - PORT / MARINE FACILITIES - PLANNING - TRANSPORTATION PLANNING - ARCHITECTURE - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL ASSESSMENT - SOLID WASTE - HAZARDOUS WASTE - AIR QUALITY - CONSTRUCTION MANAGEMENT 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119 TEL 504 - 486 - 5901 FAX 504 - 488 - 1714	 GERAGHTY & MILLER, INC. Environmental Services 2900 West Fork Drive, Suite 540 Baton Rouge, Louisiana 70827 (504) 292-1004 Offices Located Nationwide	AREA CODE 318 433-0561 D. W. JESSEN & ASSOCIATES CIVIL & CONSULTING ENGINEERS 440 KIRBY ST. LAKE CHARLES, LA D. WALTER JESSEN, JR.

CDM environmental engineers, scientists,
planners, & management consultants

CAMP DRESSER & McKEE INC.

3445 North Causeway Boulevard, Suite 600
Metairie, Louisiana 70002
504 832-7272

236 Third Street, Suite 200
Baton Rouge, Louisiana 70801
504 387-3822

offices nationwide

gregory c. rigamer & associates, inc.
professional consulting services

3230 W. Esplanade, Suite A
Metairie, LA 70002 (504) 836-6166

Michael W. Flores, P.E., P.L.S.
David C. Murla, P.E.
André DeHaan, P.E.
Gary Burt, P.L.S.



CIVIL ENGINEERS • PLANNERS • LAND SURVEYORS • CONSULTANTS



Jim D. Koontz & Associates, Inc.
P. O. Box 1054
Hobbs, New Mexico 88240
Ph 505 392 7676
Fx 505 392 7602

Jim D. Koontz, P.E.
President



JONES AND NEUSE, INC.
Environmental and Engineering Services

Preliminary Planning
Engineering Design
Facilities Permitting
Construction Management
Process and Ambient
Monitoring

Regulatory Compliance
Hydrogeologic and Geotechnical
Investigations
Risk Assessments
Remediation and Field Services
Environmental Litigation

11924 COURSEY BLVD., STE. A PHONE: (504) 291-3055
BATON ROUGE, LOUISIANA 70816 FAX: (504) 291-4801

MOHR & ASSOCIATES, INC.
Consulting Civil Engineers & Land Surveyors

6025 Buncomb Road
Shreveport, Louisiana 71129
Telephone: 318/686-7190



JAMES D. MOHR
PROFESSIONAL ENGINEER
PROFESSIONAL LAND SURVEYOR

ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS

GULF SOUTH ENGINEERS, INC.
ENGINEERING CONSULTANTS

1700 GRAND CAILLOU RD.
HOUMA, LA 70363
(504) 876-6380
FAX 876-0821

1000 LEONIDAS ST.
NEW ORLEANS, LA 70178
(504) 866-1821
FAX 866-1781



SOIL TESTING ENGINEERS

GEOTECHNICAL CONSULTANTS

GEOTECHNICAL
SOIL BORINGS
LABORATORY TESTS
ENGINEERING REPORTS

ENVIRONMENTAL
GEOHYDROLOGY
GROUNDWATER MONITORING
SUBSURFACE PROTECTION

QUALITY CONTROL
FILL INSPECTION
MATERIAL TESTING
FIELD LOAD TESTS

316 HIGHLANDIA DR.
4100 LOUISIANA AVE.
1350 LIVINGSTON LANE

BATON ROUGE, LA.
LAKE CHARLES
JACKSON, MS

504-752-4790
318-474-1340
601-962-0748



3330 WEST ESPLANADE AVE. • SUITE 300 • METAIRIE, LOUISIANA 70002

CONSULTING ENGINEERS
SERVING THE PETRO-
CHEMICAL AND OIL & GAS
INDUSTRIES

OFFICE (504) 835-2577
FAX (504) 837-5924

**PETROLEUM ENGINEERS
INTERNATIONAL, INC.**

Drilling Completion & Workover Programs
Office and Field Supervision
Property Management - Total Operations
Turnkey Operations
Reservoir Engineers
Industry Training Schools

P.O. Box 52588
Lafayette, Louisiana 70505 (318) 233-5346



Cliff Knight, P.E.
A. J. McPhate, P.E.
Dan Boullion, P.E.

Areas of Expertise:

Mechanical Troubleshooting
Failure Analysis
Vibration Analysis/Rotor Dynamics
Machine Design
Computational Fluid Dynamics
Finite Element Analysis
Stress Analysis/Pipe Stress
Pressure Vessel/Heat Exchanger Design
Heat Transfer
Risk Assessment

8126 One Calais Ave., Suite 1B • Baton Rouge, LA 70809
Phone: 1-800-737-0591 • (504) 767-0591 • FAX (504) 766-5765

EUSTIS ENGINEERING
GEOTECHNICAL ENGINEERS

CONSTRUCTION QUALITY CONTROL
AND MATERIALS TESTING
MONITORING WELL INSTALLATION
(504) 834-0157



3011 28TH STREET METAIRIE, LA 70002

MAHL AND ASSOCIATES, INC.
CONSULTING ENGINEERS

GEORGE J. MAHL, III, P.E.

800 HICKORY AVENUE, SUITE 100
HARAHAN, LOUISIANA 70123
(504) 737-8904
FAX (504) 738-7770



SERVING
CLIENTS
WORLDWIDE

Geotechnical/Materials Testing
Cone Penetrometer Testing
Environmental Consulting
Drilling, Monitor Wells
Marine Geosciences
Marine Surveys
LAKE CHARLES, LOUISIANA
(318) 439-1731



LANIER & ASSOCIATES
CONSULTING ENGINEERS, INC.

INDUSTRIAL • MARINE • ENVIRONMENTAL
NEW ORLEANS, LA HOUSTON, TX

WOODWARD-CLYDE CONSULTANTS
engineers • geologists • environmental scientists

Recognized leaders in:

- earth & environmental sciences & engineering
- geotechnical engineering
- waste management
- environmental regulatory issues & applications

2822 O'Neal Lane • Baton Rouge, LA 70816 • (504) 751-1873



Environmental Consulting and Remediation

A Subsidiary of Osca, Inc.
12021 Lakeland Park Blvd., Suite 120
Baton Rouge, Louisiana 70806
Office: (504) 756-2555 Fax: (504) 756-2562

LINFIELD, HUNTER AND JUNIUS, INC.
ENGINEERS AND ARCHITECTS

651 RICHARD STREET
NEW ORLEANS, LA 70130
(504) 581-1407

Poché Associates
LIMITED

CONSULTING ENGINEERS • ENERGY MANAGEMENT CONSULTANTS

224 Rue DeJean, Suite 200 • Lafayette, LA 70508 (318) 237-6517

LA Lazenby & Associates, Inc.
CONSULTING ENGINEERS & LAND SURVEYORS

JERRY G. LAZENBY, P.E., P.L.S.
FOY B. GADBERRY, P.E.
PAUL D. FRYER, P.E.

2000 North 7th Street • P O Box 728 • West Monroe, LA 71291-0728 • 318/387-2710
FAX 318/387-2718



Civil/Structural Engineers

2237 South Acadian Thruway, Suite 601
Baton Rouge, LA 70808
504-925-1161

BADEAUX & ASSOCIATES
INCORPORATED
CONSULTING ENGINEERS
STRUCTURAL/CIVIL
115 EAST SIXTH STREET (504) 447-2317
P O BOX 1056 THIBODAUX, LA 70302

J. Alvin Badeaux, P.E.
President

REGISTRATION FORM PROJECT MANAGEMENT WORKSHOP FOR ENGINEERS

Intent: Presentation of some of the basic management concepts required to effectively function as a project manager in the project environment. This presentation is for the entry level engineer who is contemplating a career move into project management or the engineer project manager new to the position who is not formally founded in these concepts.

Date: Wednesday, March 16, 1994, 8:00 a.m. - 5:00 p.m.

Place: Holiday Inn South, Baton Rouge, Louisiana

Cost: \$30.00 per registrant (Enrollment is limited to twenty-five (25). Fee includes coffee, refreshments and a deli-buffet working lunch.)

WORKSHOP SCHEDULE

8:00 a.m. - 8:30 a.m.	Registration
8:30 a.m. - 9:00 a.m.	Coffee/Introduction
Session 1 - The Proposal Process	
9:00 a.m. - 10:00 a.m.	
Moderator:	Blaise M. Carriere, P.E. RFPs/RFQs/SOQs/QBS Client/Provider Issues Coffee Break
10:00 a.m. - 10:30 a.m.	
Session 2 - The Project Team I	
10:30 a.m. - 11:30 a.m.	
Moderator:	James C. Porter, P.E. Traits of the Project Manager Team Motivation/Leadership
Session 3 - The Project Team II	
11:30 a.m. - 12:30 p.m.	
Moderator:	Steven W. McCrary, P.E. Organization Structures Staffing for the Project
12:30 p.m. - 1:30 p.m.	
Moderator:	Kam K. Movassaghi, P.E. Ethics/Lunch

Session 4 - Project Management I

1:30 p.m. - 2:30 p.m.

Moderator:

Kam K. Movassaghi, P.E.
Planning and Scheduling

Session 5 - Project Management II

2:30 p.m. - 3:30 p.m.

Moderator:

David E. Lourie, P.E.
Budgeting and Control
Coffee Break

3:30 p.m. - 4:00 p.m.

Session 6 - The Total Quality Management Concept

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

Moderator:

Steven W. McCrary, P.E.
History and Background
Project Management Application

Moderators:

Blaise M. Carriere, P.E., Associate, Howard Needles Tammen and Bergendoff, Baton Rouge

David E. Lourie, P.E., Consulting Engineer, Lourie Consultants, New Orleans

James C. Porter, P.E., Systems Planning Engineer, Louisiana DOTD, Baton Rouge

Kam K. Movassaghi, P.E., Professor, University of Southwestern Louisiana, Lafayette, Department of Engineering Management

Steven W. McCrary, P.E., Assistant Professor, Louisiana Tech University, Ruston, Department of Civil Engineering

(Please note: Registration for this workshop is NOT INCLUDED on the Joint Meeting Registration Form for the LES/ASCE Meeting. You must register on this form in order to participate in the workshop.) DEADLINE FOR REGISTRATION IS MARCH 1, 1994.

NAME: _____

ASCE SECTION BRANCH _____

LES CHAPTER _____

PLEASE MAKE CHECKS PAYABLE TO ASCE

Mail this form and payment to: ASCE, c/o James C. Porter, P.E., 2608 Terrace Avenue, Baton Rouge, LA 70806, telephone (504) 358-9107, FAX (504) 358-9160

Engineering the Future

Continued from page 13

ments have created a need for offshore engineers who are able to use new technologies to maintain cost effective oil and gas production. The technical training of entry-level and mid-level offshore engineers has been realized by:

- I. "On Job" Training
- II. 2-3 Day Introductory Short Courses
- III. Intensive Courses
- IV. University Degree (4 years BSE, 2 years, MS)

On the job training in the offshore industry is intensive due to the tight design fabrication and installation schedule for offshore structures. Consequently new technology creates gaps in the offshore engineer's knowledge. A short course is ideal for familiarizing the offshore engineer with these new technologies.

Often it is possible to organize a short course which consolidates the offshore engineer's knowledge. A week long intensive course in the design of offshore structures would cover:

1. Basic design regulations,
2. Design calculation procedures, and
3. Estimation of environmental loads.

Our experience has included organizing courses in other areas such as the motions of an offshore structure, anchoring an offshore structure, and reliability of the offshore structure.

Today's offshore structure designer is using a growing library of computer software. This computer approach to design requires a new generation of computer-literate offshore engineers who have a 4-1/2-year BSE, and/or a 2-year MS degree in Naval Architecture and Marine Engineering at UNO.

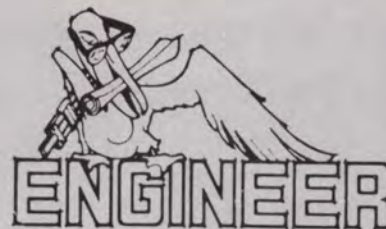
The Naval Architecture and Marine Engineering program at the University of New Orleans began in 1981, has grown to over a hundred students, making it the largest accredited program in the United States. In 1982, a traditional naval architect's drawing room and computer-aided ship design laboratory were commissioned. In 1983, the program became part of the academic common market. In 1984, the first BS-NAME degrees were awarded. In 1986 the program was ABET accredited. In 1985 Masters of Science Degrees were awarded in naval architecture and marine engineering. In 1987, the nine story UNO Engineering Building was dedicated. The Engineering Building houses eight laboratories. The laboratories include the Ship-Offshore University Laboratory with a 128 ft. long towing tank and an automated ship model milling machine, as well as the Ship-Offshore Structure Laboratory and the CAD-CAM Laboratory. In 1992 the 23rd American Towing Tank Conference was held at UNO.

For further information, contact the Department Office (504) 286-7180, or write Dr. Latoree, Chairman, 911 Engineering Building, UNO, New Orleans, LA 70148.LE



APRIL, 1994

LOUISIANA



Are You Ready For Continuing Professional Competency?

SECTION 14. CONTINUING PROFESSIONAL COMPETENCY*

The continuing professional competency guidelines are set forth for the purpose of providing consistency in those jurisdictions that adopt mandatory requirements or for those jurisdictions that wish to encourage voluntary usage. The purpose of the continuing professional competency requirement is to demonstrate a continuing level of competency of professional engineers and/or land surveyors. *A summary follows:*

- A. Introduction. Every registrant shall meet the continuing professional competency requirements of these regulations for professional development as a condition for registration renewal.
- B. Definitions. Terms used in the section are defined.
- C. Requirements. Every registrant is required to obtain 15 PDH units during the calendar year. A minimum of 10 PDH units must be earned in core courses/activities. If a registrant exceeds the annual requirement in any calendar year, a maximum of 8 PDH units in core course/activities may be carried forward into the subsequent year. No other PDH units may be carried over. The guidelines define how the PDH units may be earned.
- D. Units. The conversion of others units to PDH units is defined.
- E. Determination of Credit. The board of registration has final authority with respect to approval of courses, credit, PDH value for course, and other methods of earning credit.
- F. Recordkeeping. Each registrant is charged with the responsibility of his own professional development activities.
- G. Exemptions. A registrant may be exempt from the professional development educational requirements for named reasons.
- H. Reinstatement. A registrant may bring an inactive license to active status by obtaining all delinquent PDH units.
- I. Reciprocity/Out-of-Jurisdiction Resident. Registrants who are residents of jurisdictions other than [jurisdiction] must meet the CPC requirements of their resident jurisdiction.
- J. Dual Registrants. The number of PDH units required shall remain the same for persons who hold a second registration as engineer or land surveyor.
- K. Forms. All renewal applications will require the completion of a continuing education form specified by the board outlining PDH credits claimed.

*NCEES MODEL RULES AND REGULATIONS FOR REGISTRATION BOARDS

A discussion session on Mandatory Continuing Professional Competency for registration license renewal will be hosted by the LES Practice Divisions on Friday, June 17, 1994, 1:30 p.m. - 3:00 p.m. at the Ramada Inn, Alexandria. We encourage your participation in this panel discussion on the pros and cons of a mandatory CPC program.

On The Inside

Pages 16-18 — See Hotel Reservation Form, Meeting Registration Form, and General Program for the LES Annual Meeting, June 15-18, 1994, Ramada Inn, Alexandria, LA

The Society Reports

Inter-Society Relations Committee

by: John S. Bruce, P.E.

State Director and Committee Chair

The Inter-Society Relations Committee is one of the many glues of the Louisiana Engineering Society which serves to keep engineers in the various disciplines in contact with each other. Our profession has many diverse avenues of service and interest. Without a clearing-house such as this committee, it would be obviously difficult for us to keep up with activities of other professional and technical societies.

One of the primary responsibilities of this committee is to oversee the compiling of a roster of chief executive officers for the other engineering and surveying societies located in the state. This roster is for publication in the *Louisiana Engineer* on an annual basis. These efforts are intended to identify contacts and improve communications among the entire engineering and surveying communities in the state. Improved communications assist our legislative efforts, seminar coordination and activities for Engineers' Week. Communications help to make better use of our time in avoiding duplication of effort, capitalizing on common resources and determining broad professional interests and needs. A primary example of this effort is the recent joint meeting between ASCE and LES.

Your Inter-Society Relations Committee was involved in initiating the joint ASCE/LES meeting held March 16 through March 19 in Baton Rouge. The result of this effort was an efficient use of the professionals' time by combining the activities of these two societies' business, technical and social meetings. So many activities to choose from! Did you notice that the agenda took up two and a half pages in the *Louisiana Engineer*?

This committee serves as a communication tool for the profession. Through its implementation it is hoped to provide Society services in an efficient manner; avoiding meeting conflicts and duplication of efforts. When you have a suggestion relating to inter-society relations or are asked to help out, join in and express your ideas!

Young Engineers Committee News

by: Angela L. DeSoto, E.I.T.

Committee Chair

What have we done for you lately? We, your Young Engineers Committee, have done plenty.

Back in August and September, we, along with the Membership Committee and Chapter Presidents, met on several occasions to address the dwindling membership statewide. The fruition of those meetings shows up on all chapter membership rolls. We, as young engineers, were given the large task of reaching out to college students and recent graduates to convince them to either continue their LES membership or to join. Various chapters accomplished this in different ways.

The Lafayette Chapter hosted tailgate parties before USL football games. The Lake Charles Chapter made an extra effort to get students at their monthly meetings by subsidizing all or part of student's costs. The Monroe Chapter is working toward forming a Louisiana Tech University student chapter. The New Orleans Chapter has been getting students and recent graduates involved in various chapter functions such as MATHCOUNTS. These are just a sample of the activities sponsored.

This year as a group, our plan of action has been to rekindle relationships with all engineering schools. Over the years, contact has been lost. We have discovered that finding the students can sometimes be a daunting task, however, all chapters are making headway. For some, such as Lafayette, the connections are close. While for others, such as Monroe, chapters need to be formed.

Also on the student front, we received permission to begin a column on Student Chapters in the LE magazine. While discussing the possibility of a column, it was discovered that many student chapter members are not receiving the LE magazine due to out of date addresses. This has been corrected and now all should be receiving copies.

In the next few months we will begin to edit LES's "Professional Engineer?" pamphlet. This pamphlet was written by the Young Engineers Committee several years ago and supplies are running out. If you have any suggestions or changes or simply want a copy, contact Leta Bueto, myself or your Young Engineer Chapter Committee Chairman.

We look forward to another productive year. We plan to continue the programs we have begun and are always looking for new ideas and suggestions. But neither the Young Engineers nor any of the other LES committees can do it alone. We all need your help. Get involved!

Shreveport Chapter

by: Reginald Jeter, P.E.

Shreveport Chapter President

The Shreveport Chapter held its Annual Engineers' Week Banquet on February 26 at the Petroleum Club of Shreveport. Our guest speaker was Dr. Barrie Richardson with the Frost School of Business at Centenary College. Dr. Richardson's presentation involved numerous members of the audience of approximately 150 as he both entertained and motivated us.

The monthly meeting for March was held on March 9 at the Holiday Inn Downtown. Thirty-five members listened to our guest speaker, John Hussey, former Mayor of Shreveport. Dale Hunn, P.E., LES State President, was our special guest. We appreciate Dale making the time and effort to visit with us.

The Shreveport Chapter MATHCOUNTS competition was also held on February 26 at Keithville Elementary School under the splendid direction of Jim Hagan, P.E. Fifteen area schools from Caddo and Bossier Parishes are to be applauded for participating in the fierce competition. The first place team was from Caddo Middle Magnet School. The second place prize went to the team from Elm Grove Middle School, while Turner Middle School captured the third place spot. Elm Grove's Mark Shaw was the individual winner. These winners competed in the state MATHCOUNTS competition in Baton Rouge on March 5.

I urge every engineer to participate in LES through the local chapter. Several reasons for participating are (1) this will allow you the opportunity to be informed of events and policies that may affect each of you, (2) it will also allow you to participate in decisions and policy making through your local chapter, (3) food and interesting speakers. However, the most important reason I can give you for attending the local meetings is because of the PEOPLE! Go to one, lis-

Continued on page 8



STATE OF LOUISIANA BOARD OF REGISTRATION
FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

1055 ST. CHARLES AVE., SUITE 415
NEW ORLEANS, LA 70130-3997
(504) 568-8450
FAX - 568-8256

Office Hours
Monday thru Friday
8:00 am until 4:00 pm

Chairman
Coan J. Bueche, P.E./P.L.S.

Vice Chairman
William J. Thevenote, Jr., P.E.

Secretary
Morris P. Hebert, P.L.S.

Past-Secretary
Larry A. McKee, P.E./P.L.S.

Other Members
Randall F. Barron, P.E.
Jorge M. Ferrer, P.E.
Charles L. McDonald, P.L.S.
Vernon F. Meyer, P.E./P.L.S.
Richard M. Primeaux, P.E./P.L.S.
Richard E. Ruckstuhl, P.E./P.L.S.
Sam L. Sullivan, Jr., P.E.

Executive Secretary
Paul L. Landry, P.E.

PUBLICATIONS COMMITTEE
Chairman
Allison J. P. Launey, P.E.
Managing Editor
Leta G. Bueto
Publishing Consultant
Printing Incorporated

About the Cover

Are You Ready For Continuing
Professional Competency?



In This Issue

The Society Reports	2
Presidential Privilege	4
Engineers in Government	5
Louisiana Engineering Foundation	6
New Registrants of the State Board	9
1994 NSPE Winter Meeting Highlights	10
Notre Metier	11
The Spec Sheet	14
Registration Forms for LES Annual Meeting	16
Program for LES Annual Meeting	17
Proposed Rule Effects Industry Engineering	19
Ballot / LES Engineers Selection Board	19

(Please note: Receipt of Louisiana Engineer Magazine does not necessarily mean that you are registered with the Louisiana State Board of Registration for Professional Engineers and Land Surveyors, or that you are a member of the Louisiana Engineering Society.)



LOUISIANA ENGINEERING SOCIETY
P.O. BOX 2683, BATON ROUGE, LA 70821 TELEPHONE (504) 344-4318
STREET ADDRESS: 1213 NICHOLSON DR., BATON ROUGE, LA

LES OFFICERS AND BOARD

President
Dale T. Hunn, P.E.
First Vice President
Edgar P. Benoit, P.E.
Second Vice President
Carl A. Jakob, P.E.
Secretary-Treasurer
Robert A. Brossette, P.E.

NSPE DIRECTORS
James L. Meyer, P.E.
Dale T. Hunn, P.E.

STATE DIRECTORS
Robert C. Hughes, P.E.
John S. Bruce, P.E.
John J. Plaisance, II, P.E./P.L.S.
Ann Forte Trappey, P.E.

PAST PRESIDENT
Glynn P. Gautreau, P.E.

CHAPTER PRESIDENTS
Alexandria
James N. Moore, P.E.
Baton Rouge
Christopher D. Abadie, P.E.
Bayou
Emery R. Chauvin, Jr., P.E.
Lafayette
Frederick J. Trahan, P.E.
Lake Charles
Theodore Thompson, P.E.

Monroe
Ben Ratcliff, Jr., P.E.
New Orleans
Charles E. Prewitt, P.E.
Shreveport
Reginald L. Jeter, P.E.

PRACTICE DIVISIONS
Construction
Roger D. Melancon, P.E.

Education
Bobby E. Price, Ph.D, P.E.
Government
Richard L. Savoie, P.E.
Industry
J. Madison Drake, P.E.
Private Practice
Charles L. Eustis, P.E.

COMMITTEE CHAIRPERSONS

Constitution and Bylaws
Charles L. Eustis, P.E.
Engineering Education
Kerry J. LaBauve, P.E.
Young Engineers
Angela L. DeSoto, E.I.T.
Ethics and Professional Conduct
Foy B. Gadberry, P.E.
Honors and Awards
Lloyd G. Hoover, P.E.
Inter-Society Relations
John S. Bruce, P.E.
Legislative
Raymond G. Areaux, P.E.
Membership
Richard J. Primeaux, P.E.
Public Relations
John J. Plaisance, P.E.
Scholarship
Keith M. Warden, E.I.T.
Long-Range Planning
Carl A. Jakob, P.E.

Publications
Allison J. P. Launey, P.E.
Liaison Committee/State Board of Registration
James L. Meyer, P.E.
Louisiana Engineering Foundation
Charles L. Eustis, P.E.

EXECUTIVE DIRECTOR
Leta G. Bueto

The LOUISIANA ENGINEER is the official publication of the Louisiana Engineering Society. The LOUISIANA ENGINEER is the journal of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors. The magazine is published in February, April, June, August, October and December. Subscription \$2.17 per year for engineers registered in Louisiana and non-registered members of the Louisiana Engineering Society. Two dollars of each LES member's annual dues is set aside for six issues of the LOUISIANA ENGINEER. Second class postage paid at Baton Rouge, La. The Louisiana Engineering Society and the Louisiana State Board of Registration for Professional Engineers and Land Surveyors do not guarantee the accuracy of statements made or necessarily concur with opinions expressed in this publication. ISSN: (0024-6794)

POSTMASTER: Please send Change of Address Forms to LOUISIANA ENGINEERING SOCIETY, P. O. Box 2683, Baton Rouge, La. 70821. Telephone 504/344-4318, FAX 504/344-4319; 1213 Nicholson Drive, Baton Rouge, La.



Dale T. Hunn, P.E.
President
Louisiana Engineering
Society

Presidential Privilege

The Presidential Privilege article published in the February 1994 edition of this magazine apparently caused the readers to reflect on the issue of political patronage. The article addressed the practice of some engineering firms 'playing the contributions game' and the negative image of the profession that the practice presents to the public. I received numerous telephone calls and letters in response to the article. The callers were divided into two schools of thought. The majority of the callers were supportive of the position taken in the article. These callers said that it was about time someone in the profession addressed this situation which they believe is an embarrassment to the profession. But there was a number of callers who stated that the article contained an error in fact. These callers said that the claim that 'The public's opinion of engineers is tainted ... because of the actions of the few' was inaccurate because the actual number of firms that actively participate in the political contributions game is significantly more than a few. I hope that the information that I received from these callers was exaggerated. I want to believe that there are some engineering firms that make political contributions as a sincere means to advance good government, not as a means to secure public work. I refuse to believe that the profession cannot unite behind a true qualifications based selection system as the basis for obtaining work from all sectors of the workplace. The place to voice your opinion on this item is at your LES chapter meetings.

The Louisiana State Board of Registration for Engineers and Land Surveyors voted unanimously to continue the process to modify the registration law (L.R.S. 37:681 through 37:703) based on the recommendation of its Industrial Advisory Committee. The next step in the process is to publish a "Notice of Intent" in the *Louisiana Register*.

The wording of the proposed law changes will appear in that document. There will be a window of opportunity for comment and a public hearing will be scheduled. For those of you in the profession concerned with the practice of engineering in industrial operations, the time to state your position, for or against the proposed changes is NOW!

The Joint State Meeting of the American Society of Civil Engineers and the Louisiana Engineering Society was a great success. More than two hundred and fifty engineers and guests attended the seminars, conferences, technical presentations, student papers, social events, general membership meetings, the Awards banquet and the Board meetings. There were also interesting exhibits and student-built concrete canoes on display. We are looking forward to participating in a joint meeting again next year. Hopefully, other professional and technical organizations will join with the ASCE and LES to make next year's meeting even more successful.

We are continuing to publish information from our committees, our chapters and our practice divisions so that you can monitor the activities of these groups. This month's magazine features articles from the Shreveport Chapter, the Baton Rouge Auxiliary, the Inter-Society Relations and the Young Engineers Committees, and the Professional Engineers in Education. Hopefully, you will be interested in some of these activities and will take an active role in helping to shape the future of our profession. Remember there are three types of engineers in this world; those who make things happen, those who watch things happen and those who wonder, "What Happened?". Being an active member of LES puts you in the first group. Being an inactive member of LES puts you in the second group. Unfortunately, the third group is the largest of the three.

Since this is the last issue in which I will write the Presidential Privilege column, I want to take this opportunity to acknowledge the exemplary service of the members of the LES Board of Direction. The members of the Louisiana Engineering Society have been served well by the officers that they elected. The committee chairmen and the committee members appointed by the chapter presidents also accepted their assignments and performed their duties responsibly. The Society owes a tremendous debt of gratitude to our Executive Director, Leta Bueto, for the diligent manner in which she manages the day-to-day operations of LES on behalf of the membership.

Looking back on the accomplishments of this administration, we see chapter activities increasing, membership stabilizing, student activity growing and the MATHCOUNTS program continuing to flourish. The LES Board of Direction adopted a new Constitution and Bylaws for the Society, managed the funds of the Society frugally and monitored the work of the Industrial Advisory Committee of the LSBRPELS. At its last meeting, the LES Board adopted the 1993 NCEES Model Rules and Regulations for Registration Boards which includes guidelines for continuing professional competency. The NSPE Board of Directors endorsed these guidelines at its last meeting. There are two states that require mandatory continuing professional competency as a requisite for license renewal and twelve states that have enabling legislation to require it. To date Louisiana is not one of these states. It appears that the day will come in the not too far distant future when Louisiana engineers will have to decide on this issue.

The leadership of the organization will be turned over to the new administration at the Society's Annual Meeting during June at the Ramada Inn in Alexandria. An event agenda for the meeting is listed on later pages. There are serious issues facing the profession that must be addressed by the future leaders of our organization. I encourage you to support the new administration as you have supported this one. Let them know your positions on the issues.

Finally, thank you for allowing me the opportunity to serve the organization that really makes a difference in the profession. I have enjoyed attending chapter meetings across the state and meeting members who share a real concern for the future of our profession. LE

Engineers in Government



Louisiana Society of Professional Engineers in Civil Service

STATUS OF DOTD METRIC CONVERSION, PART II

by: Ronnie Carter, P.E.

DOTD Metric Conversion Committee Chairperson

The Look Ahead: There is a massive amount of work that needs to be accomplished in the near future for a successful conversion. Probably the most formidable task which deserves immediate attention is standard plan conversion. Existing standard plan inventories within DOTD include the approximate number of sheets as follows: Bridge Design Section - 500, Hydraulics Section - 250, Road Design Section - 25, Traffic and Planning Section - 10. Some of these standard plans will be updated utilizing consultant services while others will be done with in-house staff. There is an opportunity here to reduce the number of sheets within the inventory during the metrication process by utilizing varying dimensions and tables, however, this process requires the concurrent conversion of all standard plans within a series, which is in conflict with the need for certain more often used standards to be completed first. This will require careful planning to accommodate both needs. In addition, there is concern that quality assurance may be discussed with construction personnel to determine if this is a problem, and if so, what additional measures may be required to mitigate this.

I would like to point out that there is no deadline for designing in metric. This decision could be made by each design section, according to preferences, as only the "hard copy" documents need be in metric to obtain federal approval. This gives us "breathing room" for attending to software conversions, and affords us the opportunity in transforming from english to metric software to acquire a satisfactory comfort level for metric software, rather than being forced to change by some arbitrary deadline. One possible means of transition would be for the designer to design with english units, with the design checker performing his check calculations with metric units.

Additionally, the Proposed Construction Program List, which is DOTD's primary project tracking list, will need to be updated to include metric information, designating which projects are being developed with metric and which with english units. The list will also include justifications for those projects which are being developed with english units, whether they are anticipated to be completed prior to or subsequent to the September 1996 deadline. An initial list outlining the Department's Metric Program will be submitted to the FHWA for approval, or, at least for future consideration of metric exceptions, which will certainly be required. The purpose of this submittal will be to show the FHWA that DOTD is making a "good faith" effort toward metric conversion; that, due to the unrealistic deadline of September 1996, it will be impossible to convert all projects within that time frame; and finally, that the DOTD is proceeding on the most logical course to accomplish conversion and to maintain a steady flow of projects to utilize available federal funding.

CONVERSION IMPACT ON PRIVATE INDUSTRY: In order to minimize the impact to private industry, plans will be designed to allow english substitutions. This will accommodate contractors, fabricators and suppliers. For example, no pressure will be applied to fabricators to use hard converted sections, particularly for prestressed girders. It is anticipated that the initial prestressed girder sections will be soft converted, that is, they will likely be fabricated

to existing english dimensions rounded to the nearest millimeter. Other items include structural steel, which will have exactly the same sizes for plate and rolled sections as presently, their dimensions will simply be specified in metric rather than english. Reinforcing steel, on the other hand, already exists in metric sizes and will be so specified in the plans. However, direct substitutions in english would be allowed for the following english bar sizes, #4, #5, #8 and #11, as the area of these bars is either identical to or slightly larger than their metric equivalents. Pipe sizes will remain unchanged with existing sizes being simply respecified in metric dimensions.

In regard to the engineering consultant community, some preliminary design information has already been presented to consultants involved in bridge design. Although no actual projects have begun the metric design process to date, it is anticipated that metric surveys will soon be completed and that the design process will soon commence. It is incumbent on each section to adhere to the guidelines established by the Metric Committee in establishing design policy so that there will be consistency within DOTD, and it is also imperative that each section disseminate appropriate information to its consultants.

COORDINATION WITH OTHER AGENCIES: DOTD has thus far had no coordination with municipalities and other local government agencies. DOTD needs to commence involving these people soon for their input, and also to apprise them of the DOTD's progress and to disseminate the appropriate information to their staffs in order that there will be design consistency for the many design parameters, especially the geometric ones. A logical first step in this regard might be to invite these personnel to a DOTD Metric Seminar.

Political Activities

by: Edward R. Wedge III, P.E.

Public Information Committee Chairperson

One statement in Mr. Dale T. Hunn's article, *Presidential Privilege* from the February 1994 *Louisiana Engineer* stands out among the rest, that "It is certainly every American's constitutional right to be politically active . . .". For the vast majority of our population, this statement holds true. But there is a segment of our society who must give up certain rights to remain employed. These people are governed by the following commandments:

- Do not solicit votes or contributions
- Do not make a political contribution
- Do not make a public political statement or address
- Do not wear a campaign badge, ribbon or insignia
- Do not distribute political campaign cards, buttons or posters
- Do not influence or attempt to influence the vote of another
- Do not become a candidate for office, serve as a member of any political committee or take part in the management or affairs of a political party or organization
- Do not publicly display political campaign literature of placards on personal property

Continued on page 7

Louisiana Engineering Foundation

What is the Louisiana Engineering Foundation?

The Louisiana Engineering Foundation (LEF) was incorporated in 1978. Its objectives are to promote charitable, educational and scientific involvement. Specifically, goals and status:

- I. To grant scholarships.
 - a. Fifteen (15) \$1,500 and \$2,000 Fellowships to college students have been awarded since 1982. Two fellowships will be given this year.
 - b. Engineering Faculty Professionalism Awards are presented annually to engineering faculty members at Louisiana's seven accredited universities. Five were presented in 1989-90, four in 1990-91, six in 1991-92, and six in 1992-93.
- II. To provide guidance and information to high school and college students who are interested in an engineering career.
 - a. LEF supports MATHCOUNTS, the state and national program to encourage knowledge of math among junior high school students. Tax deductible contributions to finance the program are managed by LEF. MATHCOUNTS contributions are in excess of \$20,000 per year.
 - b. LEF supports all student chapters of professional and technical societies at our universities.
- III. To establish and maintain an "Engineering Center".
 - a. The primary goal of the Foundation is to construct a building in which the Foundation, the Louisiana Engineering Society, other engineering societies, and related organizations will be housed. The Center will have a library, common meeting and conference rooms to accommodate 25 to 500 people.
 - b. LEF owns a small center at 1213 Nicholson Drive in Baton Rouge. At present it houses the Louisiana Engineering Society and the Consulting Engineers Council of Louisiana at nominal rental rates. The building contains 3,181 square feet of heated and cooled areas. The appraised value of the building was \$95,000 in 1988.
 - c. A donation to the Foundation is a splendid way to remember and honor a departed friend or love one. A call, a fax, or a letter to LEF is all that is necessary to make your donation. The family of the deceased will be promptly notified and the friend or love one will be recorded on the Foundation's Memorial Plaque.

LEF needs your support for continuing and improving its programs and making its goals a reality. Ask your financial advisor about methods of giving that is most advantageous to you or your organization. All engineers and engineering corporations registered in the State of Louisiana should help with the Foundation. It is your profession!

Engineering Faculty Professionalism Award - 1994

The Louisiana Engineering Foundation awards the Engineering Faculty Professionalism Award annually to an engineering faculty member in each Louisiana engineering school with EAC/ABET

accredited programs. Each recipient is selected by his/her peers, in that all full-time registered professional engineers in each school make the selection.

The goals of the award are to bring to the attention of the faculty those members who are registered professional engineers at their school; to encourage the faculty to work toward registration and professionalism; and to benefit the students, the public and the promotion of professional ideals.

There were six engineering faculty members selected in 1994. The presentation of the awards were made at the LES/ASCE joint meeting on March 18, 1994 in Baton Rouge.



Dr. Malcolm E. Wright, P.E., Professor of Biological and Agricultural Engineering, Louisiana State University

Dr. Wright is a registered professional engineer in Louisiana and a strong supporter of professional engineering registration. He is a twenty-five year member of his professional organizations, the American Society of Agricultural Engineers and the American Society of Engineering Education. He is a strong advocate of ethics in engineering. He is a nationally respected leader in engineering ethics and has made presentations on this topic at international meetings of ASAE. He is an avid promoter of the engineering profession and teaches the mechanical design courses in the Biological and Agricultural Engineering curriculums. He also advises mechanical engineering students in their senior design projects and has advised engineering students from France in their senior projects.

Dr. Wright exemplifies the meaning of "Professionalism for the Engineer" and serves as an excellent role model for his colleagues in the college.



Louis P. Orth, P.E., Associate Professor of Mechanical Engineering, Tulane University

Professor Orth exemplifies professionalism at Tulane and in the New Orleans professional community. He serves in the New Orleans Section of the American Society of Mechanical Engineers and the American Society of Heating, Refrigeration, and Air Conditioning Engineers, past president. He strongly supports the professional registration activities of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors.

His standards of integrity and honesty are high and he strives to instill these standards in his students.

He has the respect and admiration of his students. He believes in registration, not simply because it may be a legal requirement, but more particularly as a demonstration to co-workers, students, and the public that this is one important hallmark of the professional, a willingness to go beyond the minimum to help encourage others to realize their full potential.



Dr. V. Trent Montgomery, P.E., Associate Professor of Electrical Engineering, Southern University

Dr. Montgomery is a faculty advisor to Southern University's branch of IEEE and ETA Kappa Nu. He was awarded the Outstanding Faculty Award at Southern in 1982, 1983, and 1985. He promotes leadership of less experienced colleagues, subordinates and students toward personal and professional development. He shows enthusiasm for the profession. He is active in his technical Society in order to keep current in his field and he encourages subordinates and students to improve their competence in the same way.



Dr. James D. Garber, P.E., Professor of Chemical Engineering, University of Southwestern Louisiana

Dr. Garber has been a member of the USL faculty for nineteen years and Professor of Chemical Engineering since 1983. He has been Director of the USL Corrosion Research Center since 1983. His activity in technical societies have kept him current in his field. He encourages his subordinates and students to improve their technical competence the same way.

Garber holds a Bachelor of Science Degree in Chemical Engineering from USL and a Masters and Doctorate from Georgia Tech University.



Dr. Howard S. Minn, P.E., Professor of Electrical Engineering, McNeese State University

Dr. Minn's accomplishments over the past twenty years include: initiation of a control laboratory, initiation and completion of an electronics laboratory, initiation of a graduate program, 1971, and maintaining a quality electrical engineering program. He strives to improve his work until it becomes a model for

those in his field, as a minimum using the most up-to-date techniques and procedures.



Dr. Paul N. Hale, P.E., Professor and Head, Department of Biomedical Engineering, Louisiana Tech University

Dr. Hale's accomplishments are many, all in keeping with the goals of the Foundation's award. His service to students include active promotion of professional registration; encourages professional development and responsibility by providing the national Biomedical Engineering Society with model

chapter development manuals and program criteria; and promotes student growth and development by encouraging all biomedical engineering students to strive for excellence.

In his service to colleagues, Dr. Hale has been supportive of faculty research and professional development interests and he regularly shares research information and opportunities available to him as Center Director with other departments and faculty on campus. He serves his profession well. Dr. Hale was named the 1993 Outstanding Biomedical Engineering Educator by the American

Society for Engineering Education. Dr. Hale is a registered professional engineer in Louisiana. He provides engineering consultant service to many companies and agencies. Dr. Hale truly represents the spirit of the Engineering Faculty Professionalism award.

Dr. Hale holds a Bachelor of Science Degree in Industrial Engineering from Lamar State College, a Master of Science Degree in Industrial Engineering from the University of Arkansas, and a Doctorate Degree in Industrial Engineering from Texas A & M. *LE*

Engineers in Government

Continued from page 5

The segment of our population who must follow these commandments to remain employed are classified state civil service employees.

The rules on political activities are enforced by the State Department of Civil Service. These rules are based on the Federal Hatch Act of 1939. However, the Federal Hatch Act was recently reformed by the passage of H.R. 20 allowing federal employees to hold office in political parties, attend political meetings, work on campaign telephone banks, distribute campaign materials, endorse candidates and solicit votes on their behalf all while outside the work place. Forty-one other states have also passed legislation reforming their respective "Hatch Acts". Again, Louisiana is in the minority by failing to pass such legislation. The Louisiana Senate passed a resolution in the 1993 regular session requesting that the Department of State Civil Service study the effects of repealing the restrictions on political activities. It was also requested that Civil Service report their findings back prior to the 1994 Legislative session. However, at present Civil Service has failed to comply.

As a state employed engineer, I can empathize with Mr. Hunn's umbrage when newspaper editors display a lack of respect for engineers. State employees are often shown lack of respect from editors, legislators, the general public and by restrictions as listed in the "Hatch Act".

LSPECS ANNUAL MEETING

The Louisiana Society of Professional Engineers in Civil Service held their annual meeting March 12, 1994 in Alexandria. Several districts elected new board members to serve a two year term beginning with the annual meeting:

Ms. Suzanne McCain, P.E.	Headquarters
Mr. Paul Fossier, P.E.	Headquarters
Mr. David Hodnett, P.E.	Monroe District
Mr. Jesse McClendon, P.E.	Hammond District

LSPECS OFFICERS AND BOARD MEMBERS

Baton Rouge District	Ms. Robin Romeo, P.E.	President
Chase District	Mr. Neal West, P.E.	Vice-President
Headquarters	Ms. Ann Wills, P.E.	Treasurer
Headquarters	Ms. Suzanne McCain, P.E.	Secretary
Headquarters	Mr. Kirt Clement, P.E.	Past-President
Lafayette District	Mr. Murphy Ledoux, P.E.	
Lake Charles District	Mr. Pat Landry, P.E.	
Shreveport District	Mr. Ronald Watts, P.E.	
Alexandria District	Mr. Rhett Desselle, P.E.	
New Orleans District	Mr. Steven Strength, P.E.	
Monroe District	Mr. Richard Paulus, P.E.	
Hammond District	Mr. Jesse McClendon, P.E.	
DEDEQ Representative	Mr. William Raborn, P.E.	

LE

The Society Reports

Continued from page 2

ten to the chit-chat and see the camaraderie between friends. I'm sure you will see what I mean.

The Louisiana Engineering Societies Auxiliary - Baton Rouge Chapter

by: Karen L. Stephens

Ira Lee Landry, President

The Baton Rouge Chapter was chartered almost forty-eight years ago. Since its inception in 1946, the purpose of the Auxiliary has been the promotion of engineering as a profession. We accomplish this goal by annually raising the funds necessary to award scholarships to deserving engineering students at Louisiana State University. Currently, we are able to give scholarships to three LSU students and plan to increase the number awarded as funds become available.

We voted to change our membership requirements last year in order to include "the spouse of a member of any engineering organization in Louisiana", rather than continue to limit ourselves to LES member spouses only. This move allows us to recruit from a broader pool of potential members. The spouses of members of ASCE, CEC/L, ASME, etc. are now eligible for Auxiliary membership and are welcome and encouraged to join.

L.E.S.A. "begins" the year in September. We plan a luncheon/program, usually in the home of a member, during the months of September, October, January and April. November is the traditional month for the Founder's Day Coffee, a festive brunch buffet, honoring our past Auxiliary presidents. In December, volunteers assist the LES Chapter with preparations for their annual Christmas Party. February's activity is the Engineers' Week Banquet, where our scholarship recipients are introduced to the engineering community by the current Auxiliary President. Our annual Scholarship Fundraiser is held in the month of March. This fundraiser provides the bulk of the funds used for the following year's scholarship awards. A new slate of officers is invested at our last meeting of the year, a lovely May Luncheon/Style Show, held at one of the area clubs.

We hope that you will consider joining L.E.S.A. - Baton Rouge Chapter. Some of our members come to all the meetings, some come to just a few, due to work and other obligations. We would like to have you as a member, regardless of your schedule. You can become as involved as you like - a little or a lot! If you are interested, please contact Karen Stephens at (504) 272-5454 or (504) 928-4008.

Professional Engineers in Education (PEE)

by: Bobby E. Price, Ph.D., P.E.

State PEE Chairman

The Professional Engineers in Education (PEE) Practice Division is an important entity within both LES and NSPE. PEE has as its objectives to advance the public welfare, promote the professional, social and economic interest of the engineer employed in education, continue encouraging the registration of qualified engineers in education, and encourage the development of a professional and ethical attitude among all engineers in education. Just a few of the most important current topics being discussed at both the state and national levels follow.

Louisiana State Board of Registration Position—Dr. Randall Barron's, P.E., term on the State Board expires August 31, 1994. Nominations for his replacement were received until April 15, a qualified list was sent to the LES Liaison Committee with the State Board, with the LES Board of Direction to vote on approving a Liaison Committee list of five to be sent to Governor Edwards thirty (30) days prior to Dr. Barron's term ending.

Curriculum Development—A plan is being proposed nationally to change the present engineering curriculum layout to one which

integrates design concepts and lab experiences throughout a 4-year curriculum, with one route being a practice-oriented Masters degree leading toward professional registration and another route continuing the present curriculum but not leading toward professional registration. Questions on this effort center on the responses of ABET and NCEES, and on the effect it may have on industry hirings.

Engineering College Ranking Program—Strong complaints have been registered about the meaningless ranking of engineering programs around the nation, such as the annual ranking by the U.S. News and World Report. The rating (not ranking) of engineering programs as excellent, good, fair, or unsatisfactory seems to be drawing stronger support among deans, industry and practicing engineers.

Membership—The membership in PEE at the state level continues to decline and presently stands at 104 out of approximately 350 eligible engineers in education. The ability to accomplish the objectives stated earlier, especially in the area of encouraging legislative actions for faculty salary increases and for increasing operating funds for universities, is hindered by a low number of PEE members. An active PEE program for the benefit of engineering education is vital for both faculty members and students in our universities. A plan has been submitted to the LES Executive Committee for consideration to help promote engineering education and support engineers in education. *LE*

CALENDAR OF EVENTS

We invite all technical and professional organizations to submit their meeting dates for publication in the *Louisiana Engineer* to: Editor, P. O. Box 2683, Baton Rouge, LA 70821.

April 1994

28-30 NCEES Southern Zone Meeting
Augusta, GA

May 1994

12-15 National MATHCOUNTS Competition
Washington, D.C.

15-19 ACEC Annual Convention
Orlando, FL

June 1994

6-7 State Board of Registration Meeting
New Orleans, LA

15-18 LES Annual Meeting
Ramada Inn
Alexandria, LA

July 1994

9-16 NSPE Annual Meeting
Hyatt Regency Crown Center
Kansas City, MO

25-26 State Board of Registration Meeting
New Orleans, LA

New Registrants of the State Board

New Registrants for the Period 09/15/93 - 01/11/94

Professional Engineers:

CHEMICAL

Joseph Elton Bohannon III
Deridder, LA
Charles Raymond High
League City, TX
Lawrence Michael Handman
Cherry Hill, NJ
Gregory John McCartney
Carey, OH
Scott Mabry Missildine
Lake Charles, LA
Roy Arthur Kessler, Jr.
Houston, TX

CIVIL

Asish Das
Voorhees, NJ
George McLean McIntyre
Cary, NC
David Lee Duplantis
Marietta, GA
Charles Dewey Jones
Lilburn, GA
Ibrahim S. Abousaud
Hoover, AL
J. B. Turnmire
Knoxville, TN
Charles Franklin Priddy, Jr.
Knoxville, TN
David Michael Coleman
Ridgeland, MS
Kenneth John Goodwin
Jackson, MS
Freeland Harris
Lexington, KY
Carl Anthony Demeter
Warsaw, IN
Robert Alan Harmon
Des Moines, IA
James Morris Ebmeier
Glenwood, IA
Jeffrey David Routson
Naperville, IL
Gary Wayne Camling
Oregon, IL
Charles Leonard Gottlieb
St Louis, MO
Cheryl Goodling Peyton
Metairie, LA
Gregory Neal Ferguson
Des Allemands, LA
Charles Leif Yderstad
Kenner, LA
Daniel James Aucutt
Baton Rouge, LA
Ronald Mark Davis
Baton Rouge, LA
Oscar Dwight Hollingsworth
Baton Rouge, LA
Ernest James Peters
Little Rock, AR
Dale Eugene Brasuell, Sr.
Van Buren, AR
Randy Scott McDermott
Plano, TX
Lawrence Darrell Thompson
Euleus, TX
Steven Wayne Burns
Fort Worth, TX
David Lee Hutchinson
Watauga, TX
William Lamar Bounds
Houston, TX
Gary Sing Chow
Missouri City, TX
Faizur Rahman Khan
Missouri City, TX
Jimmy Don Wiethorn
Sugar Land, TX
Shiva Kumar Sahai
Sugarland, TX
Larry Benton Breshears
Woodburn, OR

Richard Maurice Scott
Pelham, MA
Kenneth Charles Schexnayder
Astoria, NY
James Joseph O'Dea, Jr.
Millbrook, NY
Hugh Burns Edmonds, Jr.
Greenville, SC
Kevin Paul O'Connor
Anderson, SC
Edward Marshall Cochran
Greer, SC
Randall Wayne Gipson
Duluth, GA
William Paul Pitcher
Plantation, FL
Joseph Ralph Warlick, Jr.
Tampa, FL
James H. Littlejohn
Nashville, TN
Terry Shaw
Lexington, KY
Louis Albert Zarlenga
Youngstown, OH
David Alan Clemans
Findlay, OH
Michael Todd De Boer
Sioux City, IA
Kurt David Frey
Middleton, WI
John Joseph Sweeney
Geneva, IL
Richard Dale Hill
Lake Charles, LA
Daniel Fred Ball
Denham Springs, LA
Paul Whiting Wallace
Baton Rouge, LA
David Timothy Dodgen
Baton Rouge, LA
Michael Ray Bates
Shreveport, LA
Stephen Allan Dial
Dallas, TX
John Lee Rutledge
Fort Worth, TX
James Everett Austin
Houston, TX
Gregory Roy Wine
Sugar Land, TX
Roberto Lay-Su
Sugarland, TX
Dan Ray Summers
Pasadena, TX
Joseph Morton
Lafayette, LA
George Gerard Glaubrecht
New Iberia, LA
Charles William Handrich
Zachary, LA
Kevin Alexander Gravois
Baton Rouge, LA
Herschel Darryl Miller
Baton Rouge, LA
Ayman Saleh Chamaa
Baton Rouge, LA
Kenneth Andrew Fledderman
Baton Rouge, LA
Jack Carl Fogarty
Baton Rouge, LA
David Ray Guier
Baton Rouge, LA
Babak Naghavi
Baton Rouge, LA
Guy Jefferson Buffington, Jr.
Shreveport, LA
James Allie Sides, Jr.
Shreveport, LA
Desmond Courtney Sprawls
Shreveport, LA
CONTROL SYSTEMS
Ricardo Andres Price
Nashville, TN
Roy Reid Powell
Metairie, LA

John Joseph Elmer Sr.
Metairie, LA
Joseph Emile Robichaux, Jr.
Arabi, LA
Susan Kathleen Moss
New Orleans, LA
Ryan Wesley Hanemann
Slidell, LA
Wilbur Louis Allain, Jr.
Lafayette, LA
Charles Wesley Alworth
Tyler, TX
John Calvin Miller, Jr.
Houston, TX
Michael John Angelico
Metairie, LA
Andrew Mark Schroeder
Metairie, LA
Gary Neil Arnold
Covington, LA
Eric C. Bush
Baton Rouge, LA
Alphonse Rene Jolissaint III
Baton Rouge, LA
Russell Anthony Babin
Baton Rouge, LA
Emmett Edward Brown
Shreveport, LA

ELECTRICAL

Lawrence William Hake
Kirwood, MO
Eugene Louis Lambert
Exeter, NH
Ben Houston Edwards
Woodstock, GA
Donald Stephen Pierre, Jr.
Mobile, AL
William Council Turberville
Jackson, TN
William Richard Bassette
Oskaloosa, KS
Craig Randall Lanham
Lenexa, KS
Paul Michael Chirlian
Pearl River, LA
Donald Joe Norris
Baton Rouge, LA
John Jansons
Littleton, CO
Robert Eugene Ash
Las Vegas, NV

ENVIRONMENTAL

Jean Snelson Everett
Gretna, LA
Gerald Lloyd Schroeder, Jr.
Kenner, LA
Louis James Braquet
Kenner, LA
Robert William Fullerton
New Orleans, LA
Roland Anthony Mura
River Ridge, LA
Peter Matthew Smith
New Orleans, LA
Arthur Alexander DeFraites, Jr.
Houma, LA
Susan Herpin Richard
Lafayette, LA
Christopher Keith Richard
Lafayette, LA
Tyrone Allott Riley
Ruston, LA
Todd Michael Fuqua
Grover, MO
Nick Joseph Loiacono, Sr.
Destrehan, LA
Mohammad Ali Pirsalehy
Kenner, LA
James Andrew Lawrence
Kenner, LA
Joseph Edward Vidal III
Harahan, LA
Edgar Hugo Pavia
New Orleans, LA

Alison Muriel Martin
New Orleans, LA
Andre' Edwin Montagnet
Lafayette, LA
Kevin Drew Domingue
Lafayette, LA
John Koury, Sr.
Broussard, LA
George Robert Boddie
Baton Rouge, LA
Nancy Ann Kuhlmeier
Baton Rouge, LA
Ashokkumar Thakarshi Patel
Baton Rouge, LA
Patricia M. Broussard-Welther
Baton Rouge, LA
Regis Weldon Ingram
Baton Rouge, LA
Lloyd Guice Hoover
Shreveport, LA
Jedd Brister Lewis
Ruston, LA
Michael Philip Collins
West Monroe, LA
Jerry Gray Lazenby
West Monroe, LA
John Dent Hetherwick
Pineville, LA
Arthur Edward Meyer, Jr.
Pineville, LA
James Hardy Trewin
Richardson, TX

MECHANICAL

Malcolm Gerard Russo
Orlando, FL
Stanley Marion Chasney
Minneapolis, MN
Guy Robert Grant
Leroy, IL
William Richard Bassette
Oskaloosa, KS
Jimmy Allen Rhodes
Little Rock, AR
Shiyoji Ota
Houston, TX
Wesley Joseph Wojdon
Fremont, CA
Steven Lamar Reid
Atlanta, GA
Terrence Carter Johnston
Memphis, TN
Michael William Lambert
Louisville, KY
Timothy Joseph Grant
Chesterfield, MO
Daniel Mark Subik
Mandeville, LA
Donald Wayne Dareing
Lafayette, LA
Stanley Paul Skola, Jr.
Baton Rouge, LA
Ronald Glen German
Dallas, TX
Stephen Murrell Redding
Houston, TX
Cyrus Ray Thomas
Houston, TX
Daniel Lee Peschong
Missouri City, TX
Harvey Hershel Irby, Jr.
Las Vegas, NV
James Lee Ross
Sweet Home, OR

PETROLEUM

Daniel Leo O'Neil
Youngsville, LA
Janeen Sue Judah
Houston, TX

PROFESSIONAL LAND SURVEYORS

Walter James Stone
Metairie, LA

1994 NSPE Winter Meeting Highlights

The NSPE Board of Directors met January 13-15 at the Society's 1994 Winter Meeting in Tucson, Arizona. Highlights of the Board's actions follow.

Actions of the Board

NSPE Mission, Goals, Values

- The NSPE Board of Directors adopted a new statement of the Society's mission, goals, and values.

Our Mission

The mission of NSPE is to promote the ethical, competent, and licensed practice of engineering, and to enhance the professional, social, and economic well being of its members.

Registration, Qualifications for Practice

- In a major change of direction, the NSPE Board endorsed a policy of mandatory continuing professional competency for engineers. Proponents of the new policy—introduced by the Virginia Society of Professional Engineers—emphasized the critical importance of ensuring that engineers keep pace with rapid technological change. They also saw the need to bring engineers in line with the CPC requirements common to the other major professions and to give NSPE a leadership role in what many see as the inevitable proliferation of mandatory CPC legislation in the states. In its 97 to 70 vote, the Board also called on states to seek uniformity through the model CPC rules of the National Council of Examiners for Engineering and Surveying so that engineers licensed in several states do not have to meet multiple CPC requirements.
- In a 101 to 65 vote, the Board turned back a resolution from the Delaware Engineering Society to allow engineers with an accredited degree and 15 years' experience to become licensed without taking the Fundamentals of Engineering exam. Proponents pointed to a recently passed NSPE policy that exempts certain engineering faculty from taking the FE exam before becoming registered and called for similar consideration for experienced practitioners. Opponents saw the proposal as an erosion of licensure requirements that would send the wrong message from NSPE, especially since the Society continues to push for the removal of registration exemptions.
- The NSPE Board gave a thumbs up to plans for an NSPE Legal Pursuit Fund. Under the program, NSPE would seek donations to create a war chest for answering states' requests to pursue unlicensed engineering practitioners. In states where an organization such as NSPE has legal standing to bring suits, the program would create a deterrent beyond that of the licensing boards, which are often strapped for funds or lack enforcement powers.

Engineering Education

- NSPE will become the producer of preparatory classes to help engineers pass the Fundamentals of Engineering (FE) and the Principles and Practice (PE) exams through the satellite TV network of the National Technological University (NTU). To make it happen, the Board voted to borrow \$50,000 from the NSPE Reserve Fund, with the proviso that all initial profits of the venture would go back to the reserve until the loan has

been paid off. After that, 10% of all profits will go to the Reserve Fund.

NTU broadcasts interactive courses through its own television satellite and over the KU band, making the instruction available to hundreds of downlinks at corporations, engineering schools, and government agencies, among other sites, both across the U.S. and abroad.

NSPE sees the service as a way of making the Society a leader of preparation for licensing exams and as a promising source of revenue to support other Society programs.

- A new model for engineering education was approved in concept by the NSPE Board. The proposed curriculum, developed by Frank Kulacki, Dean of the Institute of Technology at the University of Minnesota, envisages a downsized undergraduate curriculum that introduces design in the freshman year, does a better job of integrating subject matter, and provides more laboratory experiences. The model also foresees a practice-oriented master's degree and a linkage between the education and licensing processes. Graduates of the undergraduate program who elect to pursue a practice-oriented master's would then become eligible for a PE license. No FE exam would be required.
 - John Steadman, President of the National Council of Examiners for Engineering and Surveying, gave the NSPE Board an overview of several issues of interest. He related that many engineering schools are moving toward instituting outcome assessments of their graduates. He noted that a revised FE exam could be such a tool. Currently, the eight-hour FE exam does a very reliable job of testing specific knowledge areas, such as fluid dynamics, statics, and the like, Steadman reported. He noted that a four-hour exam on such material might be sufficient, allowing the remaining four hours to be devoted to engineering practice areas such as civil, chemical, mechanical, electrical, and industrial. Steadman said this could lead to a new registration model, in which the FE exam tests some of the material currently on the PE exam. After an engineer then has four years' experience, the PE exam could devote more questions to such areas as codes, ethics, and such engineering practice—things students don't necessarily learn in school. A final report on such proposals is expected in the near future, Steadman said.
- Steadman also spoke of the new passing point that has been established to demonstrate minimum competence on the new open-book format of the FE exam. The passing rate for graduates from ABET-accredited schools was 80% on the open-book exam, Steadman reported. That was 10% higher than the corresponding rate the previous October. He attributed this to the change in reference material and the different passing mark. On the continuing professional competency front, Steadman said NCEES will be looking at its own CPC model guidelines. He predicts the current policies will stay in place, with a few changes. He did note that NCEES has a slightly different perspective on the issue than NSPE: NCEES is looking at setting minimum competence levels, not at enhancing competence.

Continued on page 13



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



July 20, 1994 Deadline for Environmental Engineers and/or Control Systems Engineers

Current professional engineer registrants of the Louisiana Board must apply (postmark date) before July 20, 1994 if they wish to be given consideration for registration as environmental engineers and/or control systems engineers without having to take the written examinations.

Call the office now for an application packet because it may take you several weeks to process your application. It is not a simple letter to the Board saying, "Please register me as an environmental engineer and/or control systems engineer". A formal complete application is required and it will take you several weeks to obtain all the information needed. Call (504) 568-8450 now for a professional engineer application packet.

Board Accepts the Industrial Advisory Committee Recommendations

An Ad Hoc Committee appointed by the Board consisting of members of industry and the professional societies that worked several months recommended that the Board take positive action in adopting rules which will give guidance to persons, firms or corporations engaged in industrial operations under the provisions of Louisiana Revised Statute 37:701.C in the State of Louisiana.

The Board was unanimous in its decision to accept the Ad Hoc Committee's Recommendation to formally consider the adoption of rules which would better define the responsibilities of persons engaged in the practice of engineering in such industrial operations. The Board's "Notice of Intent" will be formally published in the Louisiana Register May 20, 1994. Following this formal publication, the Board will receive comments from all interested parties. Following the receipt of these comments and public hearings (yet to be scheduled), the Board will give out formal consideration to adopt these rules. The proposed rules should be published in the next issue of the LOUISIANA ENGINEER (June, 1994).

February 10, 1994

File #14-3

The Honorable Edwin W. Edwards

Governor of the State of Louisiana

PO Box 94004

Baton Rouge LA 70804-9004

Dear Governor Edwards:

Pursuant to the provisions of Louisiana Revised Statute 37:691 B, I submit the report of the transactions of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors for the fiscal year 1993. A duly certified audit and financial statement showing the receipts and disbursements for the fiscal year ending June 30, 1994 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:

Albert J. Dunn	February 18, 1994
Randall F. Barron	August 24, 1994
Coan J. Bueche	August 24, 1994
Larry A. McKee	August 31, 1995
William J. Thevenote, Jr.	August 31, 1995
Morris P. Hebert	August 31, 1996
Charles L. McDonald	August 31, 1997
Sam L. Sullivan	August 31, 1997
Vernon F. Meyer	August 31, 1998
Richard M. Primeaux	August 31, 1998
Richard E. Ruckstuhl	August 31, 1999

At the regular meeting of the Board held on March 23, 1993, the following officers were elected effective July 1, 1993:

Coan J. Bueche	Chairman
William J. Thevenote, Jr.	Vice Chairman
Larry A. McKee	Secretary
Morris P. Hebert	Secretary-Elect

Very truly yours,
Coan J. Bueche
Chairman of the Board

ANNUAL REPORT

Louisiana State Board of Registration for Professional Engineers and Land Surveyors for 1993

Regular meetings of the Board were held in January, March, June, 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	528
Applications disapproved	224
Land Surveyors:	
Applications approved	27
Applications disapproved	56
Engineers in Training:	
Applications approved for certification	456
Applications disapproved	344
Land Surveyors in Training	
Applications approved for certification	2
Applications disapproved	6

The following is a tabulation of the total number of active Professional Engineers, Land Surveyors, and Professional Engineers (Public Employees), Engineers in Training, and Land Surveyors in

Training holding registration and certification as of December 31, 1993:

Professional Engineers.....	14861
Professional Land Surveyors.....	2041
Engineers in Training	4162
Land Surveyors in Training.....	164
Engineering Firms	985
Land Surveying Firms	209

Below is a tabulation of the number of Professional Engineers registered in the various branches as of December 31, 1993.

Agricultural	133
Chemical	1204
Civil	6301
Control Systems.....	34
Electrical.....	2238
Environmental	70
Industrial.....	137
Mechanical.....	3759
Metallurgical	36
Mining.....	31
Nuclear.....	3
Petroleum.....	1285

A total of 1459 written examinations were administered in 1993. Of these, there were 909 examinations in the fundamentals of engineering, 23 in the fundamentals of land surveying, 420 in the principles and practice of engineering, 31 in the principles and practice of land surveying, 76 in the laws and procedures of land surveying and 5 examinations administered for other states in Louisiana. Engineering examinations were administered at examination centers in Alexandria, Baton Rouge, Lafayette, New Orleans, and Ruston in April and October. On the same dates, land surveying examinations were administered in Baton Rouge.

Members of the Board

Louisiana Revised Statute 37:683 A 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:

Larry A. McKee and Vernon F. Meyer

Engineers in Government Employment:

Albert J. Dunn and Coan J. Bueche

Engineers Employed in Industry:

Richard E. Ruckstuhl and William J. Thevenote, Jr.

Engineers Employed in Education:

Randall F. Barron and Sam L. Sullivan

Engineer Employed in Construction:

Richard M. Primeaux

Professional Land Surveyors:

Morris P. Hebert and Charles L. McDonald

This is the end of the annual report.

NUMBER OF REGISTRANTS AS OF DECEMBER 31, 1993

Engineers		Land Surveyors		Engrs & LS	
Resident	Non-Res	Resident	Non-Res	Resident	Non-Res
5685	7503	264	105	968	704

Numbers in the ENGRS & LS column denote individuals who hold dual registration as PE and LS. This number should not be duplicated or included in other columns.

Total PEs	Total LSs	Total PEs and LSs
13,188	369	1,672

Ferrer Appointed To State Board of Registration

Governor Edwards has appointed Jorge M. Ferrer, P.E., to the State Board of Registration for Professional Engineers and Land Surveyors. His term expires August 31, 1999. Mr. Ferrer was appointed to fill the expiring term of Albert J. Dunn, P.E., on the Board.

Mr. Ferrer received his Bachelor of Science Degree in Chemical Engineering from Louisiana State University and he is a registered Chemical and Environmental Engineer.

He is employed by the City of Baton Rouge/Parish of East Baton Rouge and is responsible for directing the professional engineering activities of the Department of Public Works, Environmental Division.

Mr. Ferrer is a member of the Louisiana Engineering Society, the National Society of Professional Engineers, the American Institute of Chemical Engineers, the National Association of Local Government Environmental Professionals, the Water Environment Federation, the Air & Waste Management Association, the Plumbing & Mechanical Inspectors Association and the Louisiana Environmental Health Association. *LE*

BOARD MEETING NOTICE

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

1994

June 6-7 July 25-26 Sept. 26-27 Nov. 7-8

SCHEDULE OF EXAMINATION DATES

Examination	Examination Date	Application Postmark Date
Principles & Practice of Engineering (8 hr.) Civil (Including Structural & Sanitary), Chemical, Electrical & Mechanical	04/15/94 10/28/94 04/07/95	01/17/94 08/01/94 01/09/95
Agricultural, Control Systems, Environmental, Industrial, Metallurgical, Mining, Nuclear and Petroleum	10/28/94 10/27/95 10/25/96	08/01/94 07/31/95 07/29/96
Principles & Practice of Land Surveying (6 hr.)	04/15/94 10/28/94 04/07/95	10/18/93 05/02/94 10/10/94
LA Laws & Procedures of Land Surveying (2 hr.)	04/15/94 04/07/95 04/19/96	10/18/93 10/10/94 10/23/95
Fundamentals of Land Surveying (8 hr.)	04/16/94 10/29/94 04/08/95	10/18/93 05/02/94 10/10/94
Fundamentals of Engineering (8 hr.)	04/16/94 10/29/94 04/08/95	01/17/94 08/01/94 01/09/95

Application — NOT Pre-application — must be postmarked not later than the date indicated before an applicant will be considered for the respective examination. Note that the approximate interval between postmark dates and examination dates is 180 days for land surveying examinations 90 days for engineering examinations.

The Board may schedule an applicant for an examination later than the examination requested by the applicant and cannot guarantee that the applicant will be scheduled for the examination initially requested.

An oral examination will be scheduled for Professional Land Surveyor applicants prior to any required written examinations.

Louisiana - 1993 Exam Results

Exam		Total	Pass	% Pass
Professional Engineering				
Agricultural	Apr	Not Offered		
	Oct	3	1	33
Chemical	Apr	27	8	30
	Oct	38	13	34
Civil	Apr	53	28	53
	Oct	73	38	52
Control Systems	Apr	Not Offered		
	Oct	5	2	40
Electrical	Apr	39	26	67
	Oct	37	12	32
Environmental	Apr	Began 9310		
	Oct	2	2	100
Industrial	Apr	Not Offered		
	Oct	3	1	33
Mechanical	Apr	43	15	35
	Oct	63	41	65
Metallurgical	Apr	Not Offered		
	Oct	2	1	50
Mining	Apr	Not Offered		
	Oct	1	1	100
Nuclear	Apr	Not Offered		
	Oct	0	0	0
Petroleum	Apr	Not offered		
	Oct	31	9	29
Total PE		420	198	47

Professional Land Surveying

Principle & Practice of LS-6 hr	Apr	24	17	71
	Oct	7	5	71
LA Laws of Land Surveying-2 hr	Apr	76	28	37
	Oct	Not Offered		

Total P.L.S. Registered - 27

Fundamentals of Engineering/Senior	Apr	432/287	262/194	61/68
	Oct	474/312	364/254	77/81
Fundamentals of Land Surveying	Apr	6	2	33
	Oct	17	8	47

TOTAL EXAMS ADMINISTERED - 1,456

1994 NSPE Winter Meeting Highlights

Continued from page 10

- In an address to the Board, Jerrier Haddad, president-elect of ABET, spoke of some of the challenges facing his organization. He noted that the time investment required for accreditation site visits makes it difficult to find qualified people for the job, especially engineering practitioners. Haddad said ABET is striving to reduce the time needed for visits. He also hopes the evaluator's judgment can be tapped more so that visits become less of a formalized audit.

Membership

- The Board voted to create a new Senior Engineer category to replace the life and retired member status while also addressing the \$25 annual "service fee" currently asked of life members. Once the details of the policy have been finalized, members aged 65 years or older with 25 years of NSPE membership above the student grade will be able to apply for this new status. Dues are one half the full member dues. Current life and retired members will retain their present status but could opt to join the Senior Engineer ranks. The optional \$25 annual "service fee" currently asked of life members will continue to be optional but in 1995 payment will not affect continued receipt of *Engineering Times*. In addition, the Board action called for research on the needs of Senior Engineers and on how this group could help NSPE chapters in their activities.
- The Board rejected a recommendation of the Long Range Planning Task Force that would have allowed quarterly credit card dues payments.

Government Relations

- In adopting a new policy and position paper on U.S. technological competitiveness, the Society endorsed a

Continued on page 19



SERVING DESIGN PROFESSIONALS IN PRIVATE PRACTICE

PROFESSIONAL LIABILITY INSURANCE

LOSS PREVENTION • RISK MANAGEMENT ASSISTANCE

ALEXANDER & SANDERS INSURANCE

9613 BROOKLINE • BATON ROUGE • 70809 • 504/924-1371

ACEC Presents New Logo

After two years of intensive research and discussion, ACEC proudly presents its new corporate logo.



AMERICAN CONSULTING
ENGINEERS COUNCIL

The new logo graphic for the American Consulting Engineers Council evolved from the triangle used in the previous logo. The new logo graphic symbolizes growth and two-way communication-ACEC reaching out to consulting engineers, and all roads leading back to a central location. Various engineering disciplines are represented by the logo graphic, such as buildings in the upward sweeps and roads in the ingress and egress of the triangle sections. The intertwining feelings suggests an open network throughout the profession. Together, the parts of the logo graphic form one - one organization - one strong voice for consulting engineers.

There are certain guidelines that must be adhered to when used by members of ACEC and CEC/L. The logo graphic should not be used in conjunction with any other graphic or typographic element. It should not be used inside another shape, over another pattern or rules, or over split backgrounds. Camera-ready logo sheets are available from ACEC. For professional assistance in adapting the new logo to your specific needs, please contact ACEC's graphic designer, Mary Kaye Nilan, at (410) 360-9582. All CEC/L members are strongly encouraged to proudly display the logo on their stationery, business cards and on their renderings.

CEC/L Announces 1994 Annual Meeting

The CEC/L Board of Governors has announced that preliminary plans are underway for the 1994 CEC/L Annual Meeting.

DATE: JUNE 23-25, 1994

PLACE: RIVER PARK HOTEL, NATCHEZ, MS

AGENDA:

THURSDAY - 6/23 - REGISTRATION, OPENING RECEPTION
FRIDAY - 6/24 - BUSINESS MEETING, SEMINARS, BANQUET
SATURDAY - 6/25 - BREAKFAST, BOARD MEETING

The CEC/L Planning Committee is working to finalize all plans for board approval. It is anticipated that there will be some business oriented seminars and plenty of social events. The banquet will be held at the historic Natchez Eola Hotel, known for its elegant cuisine. CEC/L has blocked off 40 rooms at the River Park at a cost of \$60/night, single or double. The rooms will be left on a first-come-first-serve basis. **MARK YOUR CALENDARS AND DON'T MISS THIS ONE!**

ACEC Heads for Disney World...

The American Consulting Engineers Council will be holding its 1994 Annual Meeting in Orlando, Florida at Walt Disney World, May 15-19, 1994. The theme of the convention is "Partners in Excellence - The Road Ahead". There are a number of timely seminars scheduled throughout the convention including: "Powerful Presentations: Get The Edge You Need", "Shop Drawing: Who Needs Them & Why?", and "How to Recruit & Select Good People". Optional tours are planned for Walt Disney World, Cypress Gardens, and Sea World. You have already received a brochure from ACEC in which you will find your registration form and hotel reservation form. Treat your family to a memorable trip and enhance your practice at the same time. **PLAN ON GOING!**



TM and © 1994
Warner Bros., Inc.



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



PROFITRENDS* for the 90s

During the past three years, design firms have overhauled their organizations more than any other time in history. Firms are being turned upside down as a result of market forces never before seen, and significant trends are emerging that must be noted. Here are several trends to help you reshape your firm's future.

1. FLATTER ORGANIZATION STRUCTURES

Firms are eliminating layer upon layer of management structure and pushing the responsibility of project performance into the hands of fully qualified project manager principals more than at any time in history. Accompanying these flat organizations will be an unprecedented focus on quality management and personal accountability. Look for TQM to be the way business is done. Firms without significant investment in quality management processes will no longer compete in the mainstream.

2. A SHORTAGE OF TECHNICAL PROFESSIONALS

Unlike any time in the past, by 1995, design firms will face an incredible shortage of qualified, experienced people. The economy is pulling out of the recession at the same time that demographic trends indicate fewer 18-34 year-olds in the population. By 1995, when the economy is steaming, design firms will compete ferociously to attract a shrinking number of highly qualified people. Bidding wars could develop during salary negotiations.

3. SHORTER LIFE SPANS FOR DESIGN FIRMS

The traditional concept of a firm's name living on in infamy is nearly dead. Firms will emerge, grow and disappear in five year cycles. Chief executives or managing partners will have a useful life in their role of three to five years maximum. Continual change and evolution in the firm and its leadership will be forced by the need to respond faster than ever to changing client needs and market conditions.

4. OWNERS AS PROJECT MANAGERS

Clients are demanding and getting a higher level of accountability on every project. Due to this demand, owners of design firms will more and more be asked to be the project manager. As owners take on more responsibility, firms will necessarily become smaller. At the same time, aggressive design professionals will begin to offer guarantees of performance on their work.

5. EVERYONE SELLING EVERYTHING

The term "Marketing Department" no longer applies to design firms. Everyone will be a marketer, coached by a director whose principal responsibility is to train everyone in the firm in all aspects of marketing and selling.

6. PAY-FOR-PERFORMANCE SYSTEMS

By the year 2000 annual bonuses will be gone as firms seek to develop performance-based compensation systems which tie rewards to the time of specific, exceptional performance. Also, expect there to

be no salary raises in the future on a cost-of-living basis. Instead, people will be given spot bonuses for instant performance.

7. EVERYONE WITH THEIR OWN CADD SYSTEM

CADD departments are dead. Computers are smaller and more powerful than ever before. Firms are networking everything and today's successful professional is a CADD designer. Watch for more prolific use of portable CADD and enhanced communication systems to emerge. At the same time, design firms will be more willing to make use of standardized details and assemblies to significantly improve productivity and lower costs.

8. DISTRIBUTED OWNERSHIP

Successful firms will recognize the difference between leadership and ownership. Most firms will distribute ownership to more employees with a view that ownership is capitalization. The emerging focus is on "who is leading the firm" as firms evolve from traditional post-World War II concepts of ownership to more prolific, next-century, broad-based ownership.

9. PART-TIME EVERYTHING

Design firms made up of full-time employees no longer exists as the only option. Look for a variety of part-time and contract employees and fully implemented flex-time hours to be the dominant way of doing work. Also, look for continual reductions in overhead staff as everyone learns to type, voice recognition emerges, and faxes replace telephones in a do-it-yourself environment.

10. SMORGASBORD FRINGE BENEFITS-THE NORM

Look for every employee to have their own independent fringe benefit package by the year 2000 in response to differing demands on individuals. Some will need day care, some will need flex-time, most will need health care, some will want free time without compensation, but all will demand to be treated as an individual.

11. CONTINUAL RE-TRAINING OF EVERYONE

Every three years, everyone will become obsolete unless they are continually re-trained to use new techniques, new human interaction skills, and new technical skills in their function. Every firm will increase its commitment to training from the current one percent of gross fees to as much as five percent of gross fees. *LE*

From Practice Management Associates, Ten Midland Avenue,
Newton, Massachusetts 02158 (617) 965-0055

**LES ANNUAL MEETING
REGISTRATION
RAMADA INN, ALEXANDRIA, LA
JUNE 15-18, 1994**

Name _____ P.E. YES _____ NO _____

Spouse's Name _____

Chapter _____

**CLIP OR
REPRODUCE &
MAIL TO:**

**LES
P.O. Box 2683
Baton Rouge,
LA 70821**

PREPAID DISCOUNT REGISTRATION FEE ¹	\$45.00
Registration Without Prepayment	\$60.00
Daily Registration Fee ²	\$15.00
Wednesday Golf ³	\$30.00
Wednesday Ice Breaker ⁴	FREE ⁴
Thursday Seminar ⁵	FREE ⁵
Thursday Dinner ⁶	\$20.00
Friday Seminar ⁷	FREE ⁷
Friday Luncheon ⁸	\$ 9.00
Friday Installation Banquet	\$20.00

No. Tickets Amount

TOTAL

1/Prepaid discount applies only if registration and payment are received one week prior to the convention.

2/Daily registration fee is applicable for one day attendees only.

3/England Golf Course - Includes green fee and cart. Tee off - 12:30 p.m.

4/Ice Breaker, Ramada Inn, Hosted by the Alexandria Chapter and local businesses.

5/Seminar - Speaker: Kenneth R. Dees, Vice President, Geodesk, Inc.,

FREE with payment of registration fee.

6/Dinner - Loyd's Hall

7/Seminar - Speaker: Mrs. Cully Randall, "Executive Etiquette", **FREE with payment of registration fee.**

8/Luncheon - Guest Speaker: William J. Harper, P.E., Vice President, NSPE Southwestern Region.

☐ Payment Enclosed

☐ Registration Without Prepayment
on-discount rate applies

**MAKE CHECKS PAYABLE TO LES
PLEASE NOTE: A PARTIAL REFUND WILL BE MADE IF CANCELLATION
IS RECEIVED FOUR DAYS PRIOR TO CONVENTION**

**HOTEL RESERVATION CARD
LOUISIANA ENGINEERING SOCIETY
JUNE 15-18, 1994
RAMADA INN, ALEXANDRIA, LA**

**CLIP OR
REPRODUCE &
MAIL TO:**

**RAMADA INN
2211 N. MacArthur
Alexandria
LA 71301**

(318) 443-2561

Please register early. Reservations must be received by JUNE 1, 1994. On that date the rooms will be placed on a first come, first serve basis.

Date of Arrival _____ Date of Departure _____

#Nights _____ # Rooms _____

Name (print) _____

Address _____

City _____ State _____ Zip _____

Check-in Time - 2:00 p.m. Check-out Time - 12:00 noon

Convention Rates: \$45.00 + 11% tax

☐ Single ☐ Double

Major credit card or one (1) night's deposit required. Cards accepted: AMEX ★ MC/VX ★ Diners ★ Discover

Credit Card and Number _____

Expiration _____

Advance Deposit \$ _____ (One Night)

SPECIAL REQUESTS SUBJECT TO AVAILABILITY

All reservations are held until 4:00 p.m. unless guaranteed with a major credit card or a deposit equal to the first nights room and tax. Any guaranteed reservations canceled after 4:00 p.m. on the day of arrival will be charged for the first nights room and tax.

LES Annual Meeting, June 15-18, 1994, Ramada Inn, Alexandria, Louisiana

General Program

Wednesday, June 15, 1994

12:00 p.m. - 5:00 p.m. Registration
12:30 p.m. Golf Tournament
England Golf Course
6:00 p.m. Icebreaker
DINNER "On Your Own"

Thursday, June 16, 1994

8:00 a.m. - 5:00 p.m. Registration
8:15 a.m. - 10:00 a.m. Seminar: "Geographic Information Systems, A Tool for Site Engineering"
Speaker: Kenneth Dees, Vice President, Geodesk, Inc.
10:00 a.m. - 10:30 a.m. BREAK
10:30 a.m. - 11:45 a.m. COMMITTEE MEETINGS
Long Range Planning
Membership
11:45 a.m. - 1:00 p.m. LUNCH - "On Your Own"
1:00 p.m. - 2:15 p.m. COMMITTEE MEETINGS
Public Relations
Executive Committee/Liaison
State Board of Registration
2:15 p.m. - 2:45 p.m. BREAK
2:45 p.m. - 4:00 p.m. COMMITTEE MEETINGS
Young Engineers
Inter-Society Relations
2:45 p.m. - 4:00 p.m. LOUISIANA ENGINEERING FOUNDATION
6:00 p.m. - 7:00 p.m. COCKTAILS, LOYD'S HALL
7:00 p.m. DINNER, LOYD'S HALL

Friday, June 17, 1994

8:00 a.m. - 12:00 Noon Registration
9:00 a.m. - 11:00 a.m. Seminar: "Business Etiquette"
Speaker: Mrs. Cully Randall
11:15 a.m. - 12:45 p.m. LUNCH - Speaker: William J. Harper, P.E.
Vice President, NSPE Southwestern Region
1:00 p.m. - 1:30 p.m. PRACTICE DIVISION MEETINGS
Education
Government
Industry
Private Practice
1:30 p.m. - 3:00 p.m. JOINT PRACTICE DIVISION SESSION
Subject: Continuing Professional Competency
3:00 p.m. - 3:30 p.m. BREAK
3:30 p.m. - 4:30 p.m. GENERAL MEMBERSHIP MEETING
4:30 p.m. - 5:00 p.m. 1994-95 CHAPTER PRESIDENTS MEETING
6:00 p.m. - 7:00 p.m. COCKTAILS
7:00 p.m. INSTALLATION BANQUET

Saturday, June 18, 1994

8:00 a.m. LES BOARD OF DIRECTION MEETING

SPOUSES' PROGRAM

Wednesday, June 15, 1994

12:00 p.m. - 5:00 p.m. Registration
12:30 p.m. Golf Tournament
England Golf Course
6:00 p.m. Icebreaker
DINNER "On Your Own"

Thursday, June 16, 1994

8:00 a.m. - 5:00 p.m. Registration
8:00 a.m. - 10:00 a.m. Hospitality Suite Open
10:00 a.m. Shopping and Lunch "On Your Own"

3:00 p.m. - 4:30 p.m. Hospitality Suite Open
6:00 p.m. - 7:00 p.m. Cocktails, Loyd's Hall
7:00 p.m. Dinner, Loyd's Hall

Friday, June 17, 1994

8:00 a.m. - 12:00 Noon Registration
8:00 a.m. - 9:00 a.m. Hospitality Suite Open
9:00 a.m. - 11:00 a.m. Seminar: "Business Etiquette"
Speaker: Mrs. Cully Randall
11:00 a.m. - 3:00 p.m. Lunch and Shopping "On Your Own"
3:00 p.m. - 4:30 p.m. Hospitality Suite Open
6:00 p.m. - 7:00 p.m. Cocktails
7:00 p.m. Installation Banquet

Saturday, June 18, 1994

8:00 a.m. - 10:00 a.m. Hospitality Suite Open

Meeting Information

Agenda/Issues for all Committees and Practice Divisions scheduled to meet are published below for your information.

Icebreaker

The Alexandria Chapter and local businesses will host an icebreaker at 6:00 p.m., Ramada Inn. Plan to attend and visit with your friends and business associates.

Golf Tournament

If the weather cooperates, Chairman Anthony DeMarco, P.E., has planned a wonderful afternoon of golf at the England Golf Course for your entertainment.

Seminars:

- (1) "Geographic Information Systems, A Tool for Site Engineering" - Speaker, Kenneth R. Dees, Vice President Geodesk, Inc. Before founding Geodesk, Mr. Dees worked within the civil engineering field as a design and project engineer. His background includes formal training and experience in the fields of civil site engineering, surveying, mapping and the computer sciences. As a principal of Geodesk, Inc., Mr. Dees is known as an innovator in the field of geographic information systems (GIS), as well as civil site engineering and surveying technologies. Mr. Dees is the primary developer of the CIVILWORKS™ software package, as well as the Geo/GIS™ Geographic Information System software.
- (2) "Executive Etiquette" - Speaker, Mrs. Cully Randall. 'More than you ever wanted to know about etiquette and were never going to ask.' This seminar has been attended by some LES members in conjunction with other meetings. It is highly recommended for all attendees. Spouses, we urge you to attend!

Joint Practice Division Session

Subject: Continuing Professional Competence
A discussion session on Mandatory Continuing Professional Competency for registration license renewal will be held. Background information from the LES Task Force on CPC, the NCEES Model Rules and Regulations and the recent NSPE change of position on this subject will be presented. A panel will present the pros and cons of a mandatory CPC program, followed by a question and answer/opinion period. A large attendance is expected for this controversial topic.

COMMITTEE MEETINGS

Membership Committee

- I) Membership Recruitment - State Contest
 - a) Incentives/Benefits
 - b) Membership Recruitment Formula
 1. Modification
- II) Support of Young Engineers Committee's Efforts

- a) Retaining Students Members to Membership Grade Upon Graduation
 - b) Improve Communication with Student Member During Transition
- III) Membership Dues - Payroll Deduction

Public Relations Committee

New Business

- 1. Louisiana Engineer Magazine

Inter-Society Relations Committee

- 1. Introduction of Visiting Societies
- 2. Establishment of Inter-Society Committee Goals
- 3. Analysis of LES/ASCE Joint Meeting
- 4. Discussion of Future Joint Meetings (expanded)
- 5. Update Contact Roster
- 6. Development of Communication Mechanics

Young Engineers

- 1. Promotion of Student Chapters
 - a. Maintaining Contact with Existing Student Chapters
 - b. Development of a Student Column in the LE Magazine
- 2. Results of September/October Membership Drive
- 3. Comments on "Professional Engineer" Pamphlets

Long Range Planning Committee

Old Business

- 1. Review status of following:
 - a. Inter-Society Committee report on LES/ASCE March Meeting and Inter-society's planning for future meetings of this type.
 - b. Public Relations Committee Report on LES magazine enhancements
 - c. Membership Committee report on membership numbering system
 - d. Arrangements for past LES presidents gathering
 - e. PEE report on mandatory exit exams
 - f. LES/MES Meeting - Long Range
- 2. Ad hoc Committee report on Chapter Presidents Meeting
- 3. Report on Inter-Society Committee's efforts to organize representatives from various technical organizations
- 4. Succession Planning Report
- 5. Electronic Bulletin Board

New Business

- 1. Continued visioning process and development of year 2010 planning

Liaison/State Board of Registration

- 1. Approval of the list of PEE candidates for recommendation to the Governor for the expiring term of Dr. Randall F. Barron, P.E., which ends on August 24, 1994.
- 2. Board of Registration term limits
- 3. Recommendation on changes to the registration law concerning temporary permits for the practice of engineering by out-of-state Professional Engineers.

PRACTICE DIVISION MEETINGS

Education

- 1. Introductions

- 2. Reading of Minutes of March 17, 1994 Meeting in Baton Rouge
- 3. Financial Report
- 4. Old Business
 - a. Continued discussions on future directions of the Louisiana Engineering Society and PEE
 - b. Report on Legislative Matters
 - c. LES/PEE Engineer in Education Award
 - d. Other
- 5. New Business
- 6. Adjourn

Government

- 1. Call to Order
- 2. Minutes from March 17, 1994 Meeting
- 3. Financial Report
- 4. Old Business
 - a. State Board of Registration
 - b. PEG Governor/Chairman Attendance at July 1994 NSPE Meeting in Kansas City
- 5. New Business
 - a. Continuing Professional Competence

Industry

- 1. Call Meeting to Order
- 2. Review minutes of March 17, 1994 Meeting in Baton Rouge, LA
- 3. Secretary-Treasurer's Report
- 4. Old Business
 - a. Continuing MATHCOUNTS Incentive for Chapter Participation
 - b. Industry Visitation Program
- 5. New Business
 - a. Electing Vice Chairman and Secretary/Treasurer
 - b. PEI Strategies and Goals
 - c. NSPE Meeting in Kansas City, July 9-16, 1994
- 6. Adjourn

Private Practice

- 1. Call to Order
 - a. Attendance List
 - b. Agenda Acceptance/Modifications
- 2. Minutes of March 1994 Meeting
- 3. Treasurer's Report
- 4. Old Business
 - a. LDOTD Issues
 - 1. Construction Rating System: Meeting PEPP, ASCE, CEC/L, Letter of July 30, 1993
 - 2. LDOTD Joint Committee with CEC/L and PEPP Report
 - b. QBS Facilitator
 - c. Legislative Committee Report
 - d. Other Committee Issues/Old Business
- 5. New Business
 - a. Nominees for Board of Registration Vacancy
 - b. Nominee for Selection Board
 - c. Louisiana Community Development Block Grant, Engineering Fees
 - d. Aviation Board Proposal
 - e. NICET Meeting of 7 October 1993
 - f. LES Dues Increase
 - g. Other New Business
- 6. Announcements
- 7. Adjournment

LE

In Memoriam

A donation to the

LOUISIANA ENGINEERING FOUNDATION

is a fine way to remember and honor a departed friend. A call, a fax or a letter to the Secretary of the LEF is all that is necessary to make your donation. The family of the deceased will be promptly notified, and the friend's name will be recorded on the Foundation's Memorial plaque.

LOUISIANA ENGINEERING FOUNDATION

P.O. Box 2683 • Baton Rouge, LA 70821 • Phone (504) 344-4318 • FAX (504) 344-4319

Proposed Rule Effects Industry Engineering

A new rule to clarify interpretation of regulations for engineering in industry has been proposed by an eight-member Industry Advisory Committee. The rule would establish three methods that engineering work can be performed in a Louisiana industrial operation.

"Much of industry believes they are completely exempt from the laws governing engineering work. That clearly is not the case," said Edgar P. Benoit, P.E., a member of the committee. "A partial exemption does exist. This proposed rule will help define the requirements for performing engineering in industry," he added.

The three proposed methods engineering work can be performed in an industrial operation in Louisiana are as follows:

1. The work is performed by a Louisiana professional engineer,
2. The work is reviewed and approved by a Louisiana professional engineer, or
3. The work is performed in accordance with a system of engineering practices approved by a Louisiana professional engineer.

"The engineering laws were originally established for protection of the public. All states have them", said Dale T. Hunn, P.E., President of the Louisiana Engineering Society. "This proposed rule is a step in the right direction toward reinforcing that protection," he concluded.

The new rule was recommended to the Louisiana State Board of Registration for Professional Engineers and Land Surveyors (LSBRPELS) on January 25. The Board can accept the rule as proposed, modify the rule or reject the rule proposal. The Board would be required to have a public hearing before any final rule goes into effect.

The eight-member committee to make this proposal is as follows:
Larry A. McKee, P.E./P.L.S., Chairman, representing the Registration Board
Malcolm L. Hurstell, P.E., representing the Registration Board



Industry Advisory Committee and Paul Landry, Executive Secretary of the LSBRPELS; **Front row from left to right:** Edgar Benoit, Oran Suire, Thomas Graner, Joseph Wink, Jr., Malcolm Hurstell. **Second row:** Kerry Hawkins, Jesse Arnold, Larry McKee, Paul Landry.

Edgar P. Benoit, P.E., with Cajun Electric Power Cooperative, representing the Louisiana Engineering Society (LES)

Thomas J. Graner, P.E., with IMC Agrico Chemical Company, representing LES

Joseph C. Wink, Jr., P.E., with Wink Engineering, representing the Louisiana Chemical Industry Alliance

Oran J. Suire, P.E., with Dow Chemical, representing the Louisiana Chemical Association

Kerry M. Hawkins, P.E., with Exxon USA, representing Mid-Continent Oil and Gas Association

Jesse L. Arnold, P.E., with J.L. Arnold, Inc., representing the Louisiana Association of Business and Industry

Update - The Board of Registration was unanimous in its decision to accept the Committee's recommendation. See related article in *Nôtre Métier*.

1994 NSPE Winter Meeting Highlights

Continued from page 13

- shift from the nation's current piecemeal approaches that respond to discrete weaknesses, to the establishment of a comprehensive policy that addresses the multitude of factors underlying U.S. competitive strength.
- Faced with dwindling contributions, the NSPE Political Action Committee sought \$15,000 to continue operations while launching a task force to examine new ways to make the PAC a viable arm of NSPE government relations activities. The Board approved the request.
- The Board rescinded a public works policy that "favors permanent advance planning programs, including provisions for loans, advances of grants, to legally constituted agencies, to enable them to authorize the preparation of plans, designs, working drawings and specifications in advance of the construction of public works." It was noted that such advance design becomes ineffective in practice, since designs often become out-of-date and have to be redone.

National Meetings

- In rejecting a resolution offered by the New York State Society of Professional Engineers, the Board maintained its support for a two-year trial of Leadership Forums in place of the Board of Directors sessions at the 1995 and 1996 Winter Meetings. The forums will bring state presidents and presidents-elect, state executives, chairmen of key national committees, and the NSPE Executive Committee together to provide a greater input from state leaders into NSPE policymaking. The New York resolution had called for holding the Winter Board Meeting in addition to the new forum.
- The NSPE Meeting Sites Committee chose Atlanta, Georgia, as the site of the 1999 Winter Meeting and Spokane, Washington, as the host city for the Annual Meeting that year. The NSPE Board endorsed that choice.
- The Board wanted more time to consider recommendations of the NSPE Meetings Task Force, which had been formed to explore ways to lower the cost and increase the quality of national meetings. The report proposed a "closed proposal

Continued on Back Cover

Ballot To Elect Louisiana Engineering Society Members To Engineers Selection Board

Act 721 passed in the 1975 Legislature amended Chapter 10 to Title 38 of the Louisiana Revised Statutes of 1950 by adding thereto a new Part VII, Selection of Professional Services for Public Contracts. Three Boards - Architect, Engineer and Landscape Architect Selection - are authorized under this Act. Each board selects persons or firms to perform certain professional services for public contracts.

The Act refers to the Louisiana Engineering Society, specifying the following: The Louisiana Engineers Selection Board shall be composed of six members. Two members shall be named in an election conducted by the Louisiana Engineering Society at which all properly licensed engineers residing in the State of Louisiana may vote for positions to be filled. LES has two positions to fill this year, one with term ending June 30, 1995, and one ending December 31, 1995.

The LES Board of Direction nominates Marion J. Chaney, P.E., Alexandria, for the June 30 position and Henry J. Barousse, P.E., Baton Rouge, for the December 31 position.

Each Louisiana Registered Professional Engineer working and living in the state is eligible and urged to vote.

Space on the ballot is provided for write-in candidates. A write-in candidate must be a Louisiana Registered Professional Engineer and must have agreed to serve if elected. No member or firm of which a member is an associate, employee, or stockholder shall be eligible to receive agency contracts during the term of his service, and for a period of six months thereafter.

LES ENGINEERS SELECTION BOARD

1. Mark and return to LES, P. O. Box 2683, Baton Rouge, LA, 70821, by **May 28, 1994**. LES is not responsible for late delivery of mail.
2. Make sure your name and address is on the envelope that forwards the ballot to LES. Ballot signature is not required.

Vote for One Candidate in Each Position

POSITION ONE (Term July 1, 1994 - June 30, 1995)

☐ Marion J. Chaney, P.E., Alexandria, LA

☐ For write-in _____

POSITION TWO (Term January 1, 1995 - December 31, 1995)

☐ Henry J. Barousse, P.E., Baton Rouge, LA

☐ For write-in _____

PLEASE VOTE. RETURN TO LES, P. O. BOX 2683, BATON ROUGE, LA 70821 prior to May 28, 1994.

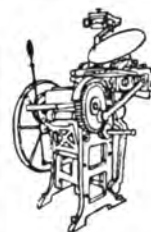
PLEASE CUT ALONG THIS LINE

SERVICES & SUPPLIERS

PIPE & LEAK LOCATING

- ✓ LEAKS UNDER SLAB FLOORS
- ✓ SEWER LINE MAPPING & PROFILING
- ✓ WATER & GAS SYSTEM LEAK SURVEYS

LEAK TECHNOLOGY **FRANK ZIMBELMAN, PE**
div. PRO-AM, INC. NEW ORLEANS
3814 HWY 43 NORTH 583-1857
PICAYUNE, MS 39466 (800) 673-5726



FAX 355-2178
PRINTING
INCORPORATED
3019 PLANK ROAD (504) 357-5961
BATON ROUGE, LOUISIANA 70805

The Best People
The Best Equipment
For the Best Product!

Ed's ep
PRINTING
COMPANY, INC.

We House A Complete
"Independent" Art Department



925-0991
9366 Greenwell Springs Rd.
at Monterrey

Water King



James E. Bowie, Jr., Ph.D., P.E.

Acadiana Treatment Systems
103 Charbonnet Road
Duson, Louisiana 70529
(318) 988-2360
Fax: (318) 981-7922

USL (318) 231-6846

DRIVE SYSTEMS, INC.

5333 River Road New Orleans, LA 70123
(504) 733-8375 FAX (504) 733-0014



Programmable Controllers

- SHARK / AutoMate / Automax
- ReSource ScreenWare 2 graphics

Your local RELIANCE Variable Speed & Programmable Control Specialist

- RELIANCE A-C and D-C V/S Drives and Motors
- REEVES Mechanical Adjustable Speed Drives
- MASTER & DODGE Reducers and Gearmotors
- Electrical & Mechanical Parts

authorized stocking distributor
RELIANCE ELECTRIC

MECO®

*Sea Water Conversion Equipment
Pharmaceutical Distilling Plants
Marine Heat Exchangers and Pumps
Reverse Osmosis Systems*

MECHANICAL EQUIPMENT COMPANY, INC.
861 CARONDELET STREET, NEW ORLEANS, LA 70130 U.S.A.

PHONE: (504) 523-7271
TELEFAX: (504) 525-4846

TELEX: 460165

PROFESSIONAL LISTINGS

WALDEMAR S. NELSON AND COMPANY

INCORPORATED
ENGINEERS AND ARCHITECTS

1200 ST. CHARLES AVENUE
NEW ORLEANS, LA 70130



TELEPHONE: (504) 523-5281
FACSIMILE: (504) 523-4587
TELEX: 504351 NELBENG

COMPLETE ENGINEERING AND PROJECT MANAGEMENT SERVICES
45 YEARS OF EXPERIENCE SERVING INDUSTRY

- SITE PLANNING / PERMITTING
- CHEMICAL / PROCESS / PETROLEUM
- CIVIL / STRUCTURAL
- ELECTRICAL / ELECTRONIC
- ENVIRONMENTAL / SANITARY
- INSTRUMENTATION / CONTROLS
- CONSTRUCTION MANAGEMENT

- MONITORING / MODELING
- MECHANICAL
- PIPELINE
- MINING
- HVAC
- ARCHITECTURE
- ASBESTOS

Parsons
Brinckerhoff

- Engineers
- Planners
- Designers
- Construction Managers

Urban Design • Highways/Civil • Bridges/Tunnels
Marine Facilities • Water Resources • Energy
Environmental Protection • Underground Facilities
Transit Systems/Transportation • Railroads
Mechanical/Electrical Systems • Agribusiness
One Lakeway Center • 3900 N. Causeway Blvd. • Suite 1480
Metairie, LA 70002 • (504) 830-0070 • (504) 830-0071 - FAX

BALAR
CONSULTING ENGINEERS



STEVEN W. BROWN, P.E.

BALAR ASSOCIATES, INC.
401 EDWARDS ST., SUITE 815
SHREVEPORT, LA 71101
(318) 221-8312
FAX (318) 424-8508

- CIVIL
- STRUCTURAL
- ENVIRONMENTAL



SIMMONS J. BARRY & ASSOCIATES
A UTILITY OPERATORS, INC. COMPANY

CONSULTING ENGINEERS
AND PROFESSIONAL LAND SURVEYORS
FOR INDUSTRIAL, GOVERNMENTAL, AND COMMERCIAL CLIENTS

POST OFFICE BOX 1751 BUS 504-769-3400
BATON ROUGE, LOUISIANA 70821 FAX 504-769-3596

LOURIE CONSULTANTS

3924 Haddon Street
Metairie, Louisiana 70002-3011
Tel: (504) 887-5531
Fax: (504) 888-1994

geotechnical and geoenvironmental
consulting services

...quality measured in the client's terms



Roger D. Melancon, P.E.

GULF INDUSTRIES, INC.

SAFETY ENGINEERING

P.O. BOX 309 • MANDEVILLE, LA 70470-0309
(504) 892-6500 • FAX (504) 892-0707

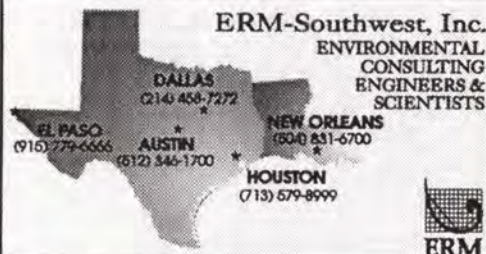


MONTGOMERY WATSON

3501 N. Causeway Blvd.
Suite 300
Metairie, Louisiana
70002

Telephone: 504 835 4252
Fax: 504 835 8059

Serving the World's Environmental Needs



ATCHLEY & ATCHLEY, INC.
Consulting Civil Engineers • Land Surveyors • Planners

412 La Salle Street
Shreveport, Louisiana 71107
318-222-5821
Ben D. Atchley Sr. P.E., P.L.S.
Ben D. Atchley Jr. P.E., P.L.S.



CORPORATE OFFICE
17170 PERKINS ROAD
BATON ROUGE, LA 70810
(504) 755-1000
FAX: (504) 751-2010

**YOUR FULL SERVICE
ENVIRONMENTAL
CONSULTANT**

LAMY J. CHOPIN, JR., P.E.

Engineered Solutions to Regulatory Issues
Baton Rouge • Lake Charles • Shreveport • Beaumont-Port Arthur



LOUIS J. CAPOZZOLI & ASSOCIATES, INC.
Geotechnical Engineers

Engineering Consultation
Laboratory and Field Testing
Land and Marine Site Explorations

10555 Airline Highway Baton Rouge, LA 70816-4199
Telephone (504) 293-2460 Fax (504) 293-2463



ALLIANCE, INC.

Architecture • Engineering • Planning
Airport Consulting • Surveying

Petroleum Square, Suite 100 1324 North Hearne Avenue
Shreveport, LA 71107 FAX (318) 221-7635
Phone (318) 221-7501



WINK INC. COMPANIES

WINK ENGINEERING
W/E PROFESSIONAL SURVEYS

4949 Bullard Ave. • New Orleans, LA 70128-3147
Office: (504) 246-7924 Fax: (504) 246-8759

MEYER, MEYER LaCROIX & HIXSON, INC.
Consulting Engineers & Land Surveyors

P.O. Drawer 5444
3666 Government St.
Alexandria, Louisiana 71301
Telephone (318) 448-0888

P.O. Drawer 1245
401 West Mississippi Ave.
Ruston, Louisiana 71270
Telephone (318) 255-7236

James L. Meyer, P.E., R.L.S. R. B. LaCroix, R.L.S.
Arthur E. Meyer, P.E., R.L.S. T. D. Hixson, P.E., R.L.S.



CONSULTING ENGINEERS

pyburn & odom, inc.

RIVER CROSSINGS • WATERFRONT STRUCTURES
HYDROGRAPHY • HIGHWAYS • INDUSTRIAL SITES
ENVIRONMENTAL STUDIES • SINCE 1948

8178 GRIFFIN AVENUE • BATON ROUGE, LA 70820-7406 • (504) 766-6330



**professional engineering
consultants corporation**

Consulting Engineers

1450 Seaboard Drive
Baton Rouge, La. 70810 (504) 769-2810

TQM Systems®

Making Quality a Reality

12382 Mollylea Drive
Baton Rouge, LA 70815-6616
Phone: 504-273-4972

M.M. "Mickey" Christensen, P.E.
President IQA Assessor # A003773

RPM ENGINEERING, INC.
A PROFESSIONAL ENGINEERING CORPORATION



9969 Professional Boulevard
Baton Rouge, LA 70809
(504) 292-9901



BROWN & BUTLER, INC.
Consulting Engineers and Land Surveyors

General Civil Engineering & Land Surveying

8335 KELWOOD AVE., SUITE D PH. 504/ 924-0235
BATON ROUGE, LA 70806-4804 FAX: 504/ 926-1687



THE MEYER GROUP



Meyer and Associates, Inc.
Engineers • Planners
Vernon F. Meyer and Associates, Inc.
Surveyors
The Meyer Group, Inc.
Project & Construction Management

30 Cities Service Hwy. • P.O. Box 2149 • Sulphur, Louisiana 70664 • (318) 625-8353
5525 Mounes Street, Suite 102 • New Orleans, Louisiana 70123 • (504) 733-3770



SALMON & ASSOCIATES, INC.

Consulting Engineers serving the
Chemical, Petrochemical,
Petroleum and Metallurgical Industry

626 HIGHLANDIA
BATON ROUGE, LA 70810
(504) 752-7250

Office Ph. (504) 868-1050
N.O. Ph. (504) 586-8222
Home Ph. (504) 872-6003
FAX Ph. (504) 868-5843

T. BAKER SMITH & SON, INC.

CIVIL ENGINEERS & SURVEYORS
LAND - OFFSHORE - HYDROGRAPHIC
ENVIRONMENTAL RESEARCH

550 South Van Ave.
P.O. Box 2266
Houma, LA 70361

WM. CLIFFORD SMITH, P.E., L.S.
President



Quest Engineering & Development Corp.

Specializing In:

STRUCTURAL & EQUIPMENT DESIGN,
REDESIGN, FAILURE ANALYSIS, &
COMPUTER FEM SIMULATION.

7500 North Belt-Humble (Houston) TX. 77396

Call: SAM BROWN, Ph.D., P.E.

(713) 441-2525



WALK, HAYDEL & ASSOCIATES, INC.

Project Managers
Engineers
Construction Managers

600 Carondelet St. New Orleans, LA 70130
(504) 586-8111

Baton Rouge Mobile Little Rock



LaBauve and Company

CONSULTING ENGINEERS
CIVIL STRUCTURAL

3717 GOVERNMENT ST.
ALEXANDRIA, LA 71302

318-445-8910



CSRS

CHENEVERT • SONGY • RODI • SODERBERG

An Engineering/Architectural Corporation
10725 Perkins Road, Suite 200 • Baton Rouge, LA 70810
Phone (504) 769-0546 • Fax (504) 767-0060

Norman J. Chenevert, AIA Michael B. Songy, P.E., P.L.S.
Ronald J. Rodi, P.E. Curtis D. Soderberg, AIA

COYLE ENGINEERING CO., INC.



CHARLES G. COYLE, P.E.

P.O. BOX 6177
BOSSIER CITY, LOUISIANA 71171-6177

3925 BENTON RD.
PHONE (318) 746-8987

DAVID VOLKERT & ASSOCIATES, INC.

ENGINEERS • ARCHITECTS • PLANNERS

3500 N. Causeway Blvd • Suite 1240
Metairie, LA 70002

(504) 837-6234 • FAX (504) 837-6237

Major offices in Metro Washington, D.C.
Mobile, AL • Tampa & Miami, FL

Office (504) 632-5596

Res. (504) 632-5646

J. W. P., INC.

J. Wayne Plaisance, Inc.
Civil Engineers • Land Surveyors

JOHN J. PLAISANCE, II
President

Post Office Drawer 730
Galliano, Louisiana 70354

Aillet, Fenner, Jolly & McClelland, Inc.

Consulting Civil & Structural Engineers

Robert R. Aillet, Robert D. Fenner, Leland H. Carter
Richard R. Aillet, Gary W. Fenner

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

1055 Louisiana Avenue
Shreveport, Louisiana 71101
AC 318 425-7452

MODJESKI AND MASTERS

CONSULTING ENGINEERS

Bridges • Highways • Structures
Mass Transit • Special Foundations
Reports Inspections Design
Inspection of Construction

1055 St. Charles Ave., New Orleans, La. 70130
(504) 524-4344

3645 Williams Boulevard
Suite 206
Kenner, LA 70065-3464
504 443 3437

**BUCHART
HORN, INC.**
Engineers, Architects
and Planners



♦ CONSULTING
♦ ENGINEERING
♦ PROCUREMENT
♦ CONSTRUCTION

100 YEARS OF ENGINEERED SOLUTIONS

MONROE JACKSONVILLE EDISON ATLANTA
318/323-9000 904/730-8400 908/287-7800 404/717-3830



ARCHITECTS ENGINEERS PLANNERS

Comprehensive Services in

• Aviation • Construction Management
• Bridges and Structures • Environmental Services
• Civil Engineering • Transportation and Planning

HNTB CORPORATION
Calfish Town, Suite F-200, 100 St. James Street
Baton Rouge, LA 70802 (504) 346-0006



Metallon, Inc.

Metallurgical Testing Laboratories

2524 Sutherland
Houston, Texas 77023
(713) 923-7761

Mechanical Testing
Specimen Machining

Chemical Analysis
Metallographic Evaluation



& ASSOCIATES, INCORPORATED
PROFESSIONAL ENGINEERS & LAND SURVEYORS

400 East Kaliste Saloom Road
Suite 1100
P.O. Box 52115
Lafayette, LA 70505-2115

(318) 232-5182
LA WATTS (800) 737-5182
FAX (318) 237-7132



**SOUTHWESTERN
LABORATORIES**
ENGINEERING & ENVIRONMENTAL SERVICES

Louisiana Locations
SHREVEPORT • MONROE
BATON ROUGE • ALEXANDRIA



DEMOPULOS & FERGUSON, INC.
CONSULTING ENGINEERS
SINCE 1953

• ENGINEERS • ARCHITECTS • PLANNERS

401 Edwards - Suite 1600 - Shreveport, Louisiana 71101-5530 • (318) 221-7117
2603 Augusta - Suite 880 - Houston, Texas 77057-5638 • (713) 783-7117

BURK-KLEINPETER, INC.

ENGINEERS ARCHITECTS PLANNERS ENVIRONMENTAL SCIENTISTS

• CIVIL	• PLANNING	• ENVIRONMENTAL ASSESSMENT
• STRUCTURAL	• TRANSPORTATION PLANNING	• SOLID WASTE
• MECHANICAL	• ARCHITECTURE	• HAZARDOUS WASTE
• HIGHWAY	• LANDSCAPE ARCHITECTURE	• AIR QUALITY
• DRAINAGE		• CONSTRUCTION MANAGEMENT
• PORT / MARINE FACILITIES		

4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119
TEL 504 - 486 - 5901 FAX 504 - 488 - 1714



**GERAGHTY
& MILLER, INC.**
Environmental Services

2900 West Fork Drive, Suite 540
Baton Rouge, Louisiana 70827
(504) 292-1004
Offices Located Nationwide

AREA CODE 318
433-0561

D. W. JESSEN & ASSOCIATES
CIVIL & CONSULTING ENGINEERS

440 KIRBY ST.
D. WALTER JESSEN, JR. LAKE CHARLES, LA

CDM environmental engineers, scientists,
planners, & management consultants

CAMP DRESSER & McKEE INC.

3445 North Causeway Boulevard, Suite 600
Metairie, Louisiana 70002
504 832-7272

236 Third Street, Suite 200
Baton Rouge, Louisiana 70801
504 387-3822

offices nationwide



CONSULTING ENGINEERS
SERVING THE PETRO-
CHEMICAL AND OIL & GAS
INDUSTRIES

OFFICE (504) 835-2577
FAX (504) 837-5924

3330 WEST ESPLANADE AVE. • SUITE 300 • METAIRIE, LOUISIANA 70002



LANIER & ASSOCIATES
CONSULTING ENGINEERS, INC.

INDUSTRIAL • MARINE • ENVIRONMENTAL
NEW ORLEANS, LA HOUSTON, TX

gregory c. rigamer & associates, inc.
professional consulting services

3230 W. Esplanade, Suite A
Metairie, LA 70002 (504) 836-6166

Michael W. Flores, P.E., P.L.S.
David C. Murla, P.E.
André DeHaan, P.E.
Gary Burt, P.L.S.



CIVIL ENGINEERS • PLANNERS • LAND SURVEYORS • CONSULTANTS

**PETROLEUM ENGINEERS
INTERNATIONAL, INC.**

Drilling Completion & Workover Programs
Office and Field Supervision
Property Management - Total Operations
Turnkey Operations
Reservoir Engineers
Industry Training Schools

P.O. Box 52588
Lafayette, Louisiana 70505 (318) 233-5346

WOODWARD-CLYDE CONSULTANTS
engineers • geologists • environmental scientists

Recognized leaders in:

- earth & environmental sciences & engineering
- geotechnical engineering
- waste management
- environmental regulatory issues & applications

2822 O'Neal Lane • Baton Rouge, LA 70816 • (504) 751-1873



Jim D. Koontz & Associates, Inc.
P. O. Box 1054
Hobbs, New Mexico 88240
Ph 505 392 7676
Fx 505 392 7602

Jim D. Koontz, P.E.
President



Cliff Knight, P.E.
A. J. McPhate, P.E.
Dan Boullion, P.E.

Areas of Expertise:

Mechanical Troubleshooting
Failure Analysis
Vibration Analysis/Rotor Dynamics
Machine Design
Computational Fluid Dynamics
Finite Element Analysis
Stress Analysis/Pipe Stress
Pressure Vessel/Heat Exchanger Design
Heat Transfer
Risk Assessment

8126 One Calais Ave., Suite 1B • Baton Rouge, LA 70809
Phone: 1-800-737-0591 • (504) 767-0591 • FAX (504) 766-5765



Environmental Consulting and Remediation

A Subsidiary of Osca, Inc.
12021 Lakeland Park Blvd., Suite 120
Baton Rouge, Louisiana 70806
Office: (504) 756-2555 Fax: (504) 756-2562



JONES AND NEUSE, INC.
Environmental and Engineering Services

Preliminary Planning
Engineering Design
Facilities Permitting
Construction Management
Process and Ambient
Monitoring

Regulatory Compliance
Hydrogeologic and Geotechnical
Investigations
Risk Assessments
Remediation and Field Services
Environmental Litigation

11924 COURSEY BLVD., STE. A PHONE: (504) 291-3055
BATON ROUGE, LOUISIANA 70816 FAX: (504) 291-4801

EUSTIS ENGINEERING
GEOTECHNICAL ENGINEERS

CONSTRUCTION QUALITY CONTROL
AND MATERIALS TESTING
MONITORING WELL INSTALLATION
(504) 834-0157



3011 28TH STREET METAIRIE, LA 70002

LINFIELD, HUNTER AND JUNIUS, INC.
ENGINEERS AND ARCHITECTS

651 RICHARD STREET
NEW ORLEANS, LA. 70130
(504) 581-1407

MOHR & ASSOCIATES, INC.
Consulting Civil Engineers & Land Surveyors

6025 Buncomb Road
Shreveport, Louisiana 71129
Telephone: 318/686-7190



JAMES D. MOHR
PROFESSIONAL ENGINEER
PROFESSIONAL LAND SURVEYOR

MAHL AND ASSOCIATES, INC.
CONSULTING ENGINEERS

GEORGE J. MAHL, III, P.E.

800 HICKORY AVENUE, SUITE 100
HARAHAN, LOUISIANA 70123
(504) 737-8904
FAX (504) 738-7770

Poché Associates
LIMITED

CONSULTING ENGINEERS • ENERGY MANAGEMENT CONSULTANTS

224 Rue Dejean, Suite 200 • Lafayette, LA 70508 (318) 237-6517

ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS
GULF SOUTH ENGINEERS, INC.
ENGINEERING CONSULTANTS



1700 GRAND CAILLOU RD.
HOUMA, LA 70363
(504) 876-6380
FAX 876-0521

1000 LEONIDAS ST.
NEW ORLEANS, LA 70178
(504) 866-1821
FAX 866-1781

FUGRO McClelland SERVING
CLIENTS
WORLDWIDE

Geotechnical/Materials Testing
Cone Penetrometer Testing
Environmental Consulting
Drilling, Monitor Wells
Marine Geosciences
Marine Surveys
LAKE CHARLES, LOUISIANA
(318) 439-1731

Lazenby & Associates, Inc.
CONSULTING ENGINEERS & LAND SURVEYORS

JERRY G. LAZENBY, P.E., P.L.S.
FOY B. GADBERRY, P.E.
PAUL D. FRYER, P.E.

2000 North 7th Street • P.O. Box 728 • West Monroe, LA 71291-0728 • 318/387-2710
FAX 318/387-2718



SOIL TESTING ENGINEERS

GEOTECHNICAL CONSULTANTS

GEOTECHNICAL
SOIL BORINGS
LABORATORY TESTS
ENGINEERING REPORTS

ENVIRONMENTAL
GEOHYDROLOGY
GROUNDWATER MONITORING
SUBSURFACE PROTECTION

QUALITY CONTROL
FILL INSPECTION
MATERIAL TESTING
FIELD LOAD TESTS

316 HIGHLANDIA DR.
4100 LOUISIANA AVE.
1350 LIVINGSTON LANE

BATON ROUGE, LA.
LAKE CHARLES
JACKSON, MS

504-752-4790
318-474-1340
601-962-0748

**BADEAUX &
ASSOCIATES
INCORPORATED**
CONSULTING ENGINEERS
STRUCTURAL/CIVIL

115 EAST SIXTH STREET (504) 447-2317
P.O. BOX 1056 THIBODAUX, LA 70302

J. Alvin Badeaux, P.E.
President



Civil/Structural Engineers

2237 South Acadian Thruway, Suite 601
Baton Rouge, LA 70808
504-925-1161

1994 NSPE Winter Meeting Highlights

Continued from page 19

process" for site selection, publication of a financial statement by the host society in the subsequent "Bluebook", continuation of the current practice of having the state retain financial management responsibility, and the development of a procedures manual. The issue will be taken up again at the Annual Meeting in Kansas City in July.

Governance

- A new slate of officer-nominees for 1994-95 was adopted at the Tucson meeting.
- To streamline the NSPE officer nominating process and to accommodate the lack of winter board meetings over the next two years, the Board passed a revised bylaw on elections and nominations (Bylaw 9). Under the policy, submissions of can-

didates must be received 30 days before the first day of the Annual Meeting each year. No later than 10 days after that meeting, the nominating committee will announce its selections for the national officer nominees. Petitions for officer nominees can be received no later than January 1. Ballots must be received at headquarters by April 8.

Two-year staggered terms for NSPE vice presidents were also made an official part of NSPE policy.

MATHCOUNTS

- The Board rejected a resolution offered by the Oklahoma Society of Professional Engineers that would have required NSPE to provide direct funding to MATHCOUNTS at no less than the national sponsor level—currently \$75,000 a year—on the grounds that it was not appropriate to earmark funds for any program in the budgeting process.*LE*

Please clip or reproduce and mail to LES, P. O. Box 2683, Baton Rouge, LA 70821
LOUISIANA ENGINEERING SOCIETY
MEMBERSHIP APPLICATION

Name _____

Address _____

City _____ State _____ Zip _____

Phone (Bus) _____ (Home) _____

Employer _____

Address _____

City _____ State _____ Zip _____

Please Send All Mail To: ☐ Home ☐ Office

REGISTRATION: PE ☐ PLS ☐ EIT ☐ NONE ☐

State _____ Reg. No. _____ Branch _____

Birth Date _____ Age _____

Spouse's First Name _____

University _____

Degree(s) _____

Year Graduated (or will Graduate) _____

PRACTICE DIVISION PREFERENCE (CHECK ONE)

☐ Construction ☐ Education ☐ Government ☐ Industry ☐ Private Practice

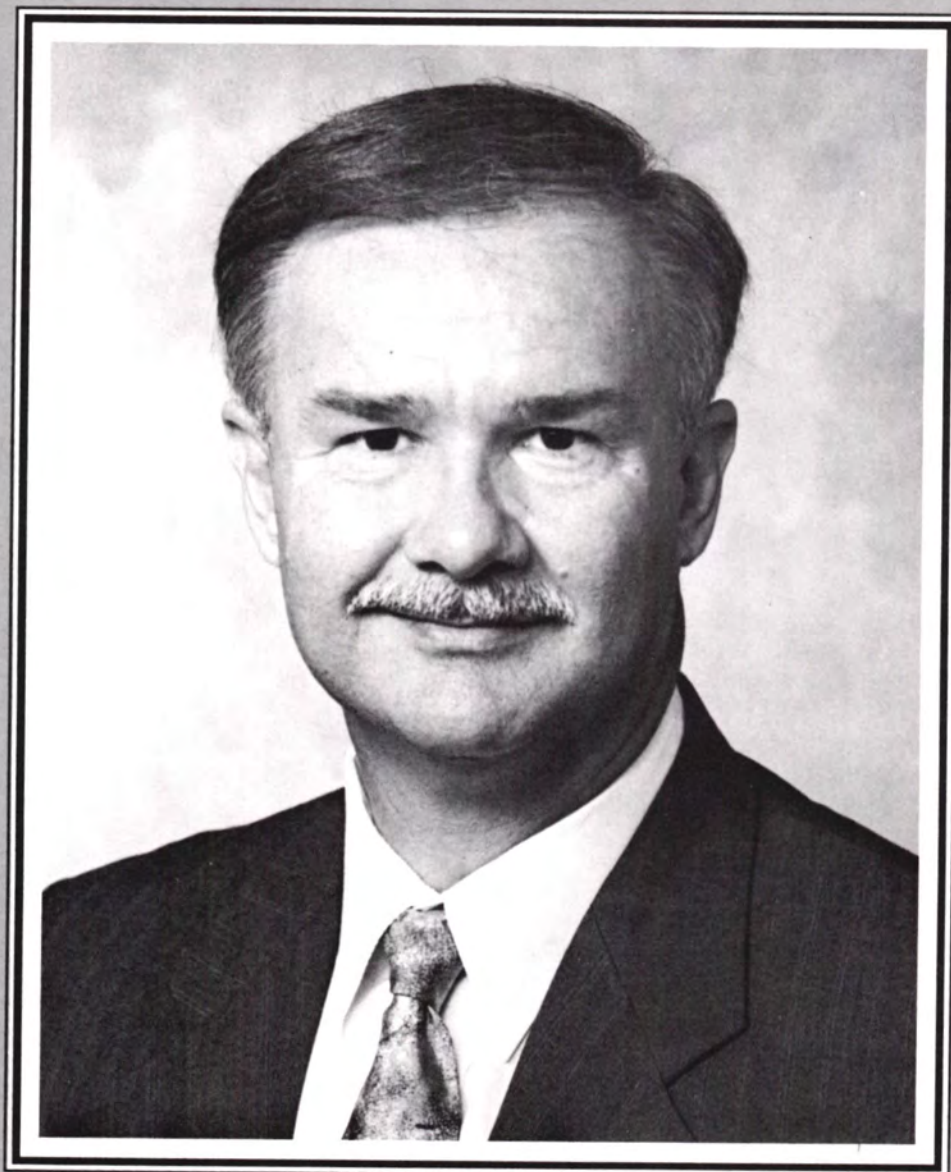
Have you ever been a member of LES? YES ☐ NO ☐

Signed: _____



JUNE, 1994
LOUISIANA

ENGINEER



EDGAR P. BENOIT, P.E.
President
Louisiana Engineering Society
1994-95

On The Inside

- ◆ MATHCOUNTS, page 8
- ◆ Engineers Selection Board Ballot for CEC/L, page 9
- ◆ Notice of Intent to Revise Louisiana Administrative Code, 46:LXI, page 11



SPECIAL LICENSE PLATE

Engineers need recognition and identity. There are some 12,000 + Professional Engineers registered to practice in the state of Louisiana; and, even though you may not currently reside in Louisiana, be proud to display this identifying item.

The license plate illustrated above is available for all Professional Engineers registered by the state of Louisiana for \$10.00 postpaid. The plate is made of long-wearing fiberglass (size 6" x 11 $\frac{3}{4}$ "). We believe it will make an attractive addition to the front of your automobile.

RETURN YOUR ORDER FORM NOW!

LOUISIANA ENGINEER LICENSE PLATE

Mail to: LES

P. O. Box 2683

Baton Rouge, LA 70821

_____ I would like to order _____ plate(s) as specified.

_____ \$10.00 per plate enclosed

NAME _____

ADDRESS _____

CITY _____

STATE _____

ZIP _____

LOUISIANA ENGINEER



About the Cover

Features Edgar P. Benoit, P.E.,
President of LES 1994-95.

In This Issue

Presidential Privilege	4
Engineers in Government	5
Louisiana Engineering Society Board of Direction	6
LES Chapter Presidents and Practice Division Chairmen	7
MATHCOUNTS	8
Ballot to Elect CEC/L Members to Engineers Selection Board ..	9
New Registrants of the State Board	10
Notre Metier	11
The Spec Sheet	14
State Population Per Engineering College	16
Bueto's Column	18
Vincent A. Forte Graduate School Fellowships	19

(Please note: Receipt of Louisiana Engineer Magazine does not necessarily mean that you are registered with the Louisiana State Board of Registration for Professional Engineers and Land Surveyors, or that you are a member of the Louisiana Engineering Society.)



STATE OF LOUISIANA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

1055 ST. CHARLES AVE., SUITE 415
NEW ORLEANS, LA 70130-3997
(504) 568-8450
FAX - 568-8256

Office Hours
Monday thru Friday
8:00 am until 4:00 pm

Chairman
Coan J. Bueche, P.E./P.L.S.

Vice Chairman
William J. Thevenote, Jr., P.E.

Secretary
Morris P. Hebert, P.L.S.

Past-Secretary
Larry A. McKee, P.E./P.L.S.

Other Members
Randall F. Barron, P.E.
Jorge M. Ferrer, P.E.
Charles L. McDonald, P.L.S.
Vernon F. Meyer, P.E./P.L.S.
Richard M. Primeaux, P.E./P.L.S.
Richard E. Ruckstuhl, P.E./P.L.S.
Sam L. Sullivan, Jr., P.E.

Executive Secretary
Paul L. Landry, P.E.

PUBLICATIONS COMMITTEE

Chairman
Allison J. P. Launey, P.E.
Managing Editor
Leta G. Bueto
Publishing Consultant
Printing Incorporated



LOUISIANA ENGINEERING SOCIETY
P.O. BOX 2683, BATON ROUGE, LA 70821 TELEPHONE (504) 344-4318
STREET ADDRESS: 1213 NICHOLSON DR., BATON ROUGE, LA

LES OFFICERS AND BOARD

President
Edgar P. Benoit, P.E.
First Vice President
Carl A. Jakob, P.E.
Second Vice President
Robert A. Brossette, P.E.
Secretary-Treasurer
Ronald J. Rodi, P.E.

NSPE DIRECTORS
James L. Meyer, P.E.
Edgar P. Benoit, P.E.

STATE DIRECTORS
John J. Plaisance, II, P.E.
Ann Forte Trappey, P.E.
James N. Moore, P.E.
Theodore H. Thompson, P.E.

PAST PRESIDENT
Dale T. Hunn, P.E.

CHAPTER PRESIDENTS

Alexandria
Donald W. Clayton, P.E.
Baton Rouge
Steve M. Boudreaux, P.E.
Bayou
Kenneth W. Smith, P.E.
Lafayette
Susan H. Richard, P.E.
Lake Charles
Ronald J. Dupont, P.E.
Monroe
John H. Eason, P.E.
New Orleans
Lonnie G. Bassett, P.E.
Shreveport
Ruth L. Baker, P.E.

PRACTICE DIVISIONS

Construction
Roger D. Melancon, P.E.

Education
Bobby E. Price, Ph.D., P.E.
Government
Christopher D. Abadie, P.E.
Industry
Harold P. LeRay, P.E.
Private Practice
Foy B. Gadberry, P.E.
COMMITTEE CHAIRPERSONS
Constitution and Bylaws
Frederick J. Trahan, P.E.
Engineering Education
R.J. Yakupzack, P.E.
Young Engineers
Angela L. DeSoto, E.I.T.
Ethics and Professional Conduct
Foy B. Gadberry, P.E.

Honors and Awards
Glynn P. Gautreau, P.E.
Inter-Society Relations
John S. Bruce, P.E.
Legislative
Raymond G. Areaux, P.E.
Membership
Theodore H. Thompson, P.E.
Public Relations
John J. Plaisance, II, P.E.
Scholarship
Keith M. Warden, E.I.T.
Long-Range Planning
Robert A. Brossette, P.E.
Liaison Committee/State Board of Registration
James L. Meyer, P.E.
Louisiana Engineering Foundation
Charles L. Eustis, P.E.

EXECUTIVE DIRECTOR
Leta G. Bueto

The LOUISIANA ENGINEER is the official publication of the Louisiana Engineering Society. The LOUISIANA ENGINEER is the journal of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors. The magazine is published in February, April, June, August, October and December. Subscription \$2.17 per year for engineers registered in Louisiana and non-registered members of the Louisiana Engineering Society. Two dollars of each LES member's annual dues is set aside for six issues of the LOUISIANA ENGINEER. Second class postage paid at Baton Rouge, La. The Louisiana Engineering Society and the Louisiana State Board of Registration for Professional Engineers and Land Surveyors do not guarantee the accuracy of statements made or necessarily concur with opinions expressed in this publication. ISSN: (0024-6794)

POSTMASTER: Please send Change of Address Forms to LOUISIANA ENGINEERING SOCIETY, P. O. Box 2683, Baton Rouge, La. 70821. Telephone 504/344-4318, FAX 504/344-4319; 1213 Nicholson Drive, Baton Rouge, La.



Edgar P. Benoit, P.E.
President
Louisiana Engineering
Society

Presidential Privilege

Hot Topics For 1994-1995

This is my first article as state president and I have attempted to anticipate some of the major issues coming up this year.

- * *Overhauling the registration process.*
- * *Mandatory Continuing Professional Competency (CPC).*
- * *Updating how the Society functions.*

Closing In On 100 Years

It is important, however, to review the past before beginning to anticipate the future. The Louisiana Engineering Society indeed has a long and distinguished past beginning in 1898, 96 years old this year. It was one of the first states in the Union to adopt an engineering registration law. You feel the responsibility of following so many years of outstanding leadership. Our past President, Dale Hunn, has maintained that tradition of leadership and the Society has moved forward. His love of and dedication to the engineering profession has inspired me and many of his fellow engineers. Many of you, nevertheless, are familiar with Dr. W. Edwards Deming's TQM philosophy of continuous improvement. I pray I will have the energy, foresight and wisdom to follow in the footsteps of so many outstanding leaders.

Changing The Registration Process

One of the most important issues for engineers in the Society is the state laws governing the registration of engineers. Yet there are many, like myself, who feel that the registration process for engineers is broken. Only a third of the graduating engineers are becoming registered. Let's look at the issues.

Exemptions

There are many exemptions in the law which allow non-registered individuals to practice engineering. That, in my opinion, endangers the public and the engineering profession. The reason those exemptions exist is because of compromise. Attempts in the past to force elimination of the exemptions have failed. Forced changes will still be the wrong strategy. Working together with these exempt groups is our only hope for success. The Industry Relations Committee is one example of working together toward a resolution. The objective is to have all engineering work performed by a registered engineer or under their direct supervision. In order to accomplish that goal, the registration process needs to be modified.

Exit Exam

Engineers graduate from college under our present system and often never get on the registration track. We must build a path after graduation that encourages registration and only a few jump the track or can not make it to the top of the mountain to registration. An exit exam that all engineers are required to take (not pass) is a specific suggestion in this area.

Reciprocity

The registration laws differed from state to state when engineers began to be registered and they still do to some extent. Is it unsafe for the public for an engineer that took an exam and passed not to be registered in Louisiana only because he took it too early? If an engi-

neer is registered in Louisiana, is it unsafe to the citizens of Mississippi to practice in Mississippi? There may be a need to have some restriction on reciprocity, but only those that have merit. One suggestion includes reciprocity granted to any engineers registered in any other state for ten years or more.

Grandfathering Registration

How do we have a "grandfathering" provision to register engineers that are currently exempt and still protect the public? How much danger is the public in from the present exemptions?

Mandatory Continuing Professional Competency

A couple of states have adopted it, many others are considering adoption and the NSPE Board endorsed it. What is "it", this CPC? The meaning varies, so I will give you my definition. In order to continue practicing engineering under your license, you would be required to perform tasks which generally include taking educational type courses. Is this a protecting the public issue or an economic issue?

Changing How LES Does Business

I have over the years talked to many engineers that for a period of time were not very active in the state organization and came back to a state meeting after 5-10 years. Their comment, "Things haven't changed, we're still talking about the same things." These comments have convinced me we need to change how the Society does its business. How can we become leaders to adopt needed changes? How can we become a Society of action? How can we fit the lifestyles of our members to the needs of the Society?

Active and Attractive Meetings

We will never have active state meetings until we have active chapter meetings. Our goal needs to combine interesting and informative speakers with problem solving, position setting, meetings. Going to a Society meeting needs to make a difference in the future of the profession.

Teleconference Committee Meeting

Our committees have to take advantage of TeleConferencing instead of the traditional face-to-face meetings.

Membership Recruitment

Membership recruitment must begin by reminding our existing members of the benefits of the Society and encouragement to bring a colleague into the Society. Membership recruitment will not be the duty of the membership committee but each one of us as members.

MATHCOUNTS

As we make all the changes and discuss the hot issues, we can not forget the grass root programs like MATHCOUNTS. Inviting a colleague to a MATHCOUNTS competition may be the way to recruit.

Public Relations

As the Society goes about doing the right things, we must communicate that activity to our fellow members, other engineers and the general public. Look how quickly the public image of attorneys deteriorated.

For Busy People, Only

The most important job I have as President is not to adopt my solutions for these issues, but to communicate the facts to you and develop a consensus of opinion. If you are a very busy person, with only limited time to devote to our profession, we need your direction on how to make the process of participating in the Society efficient and effective. Will you help?LE

Engineers in Government



Louisiana Society of Professional Engineers in Civil Service

LSPECS President

At its March 12, 1994 annual meeting in Alexandria, LA, the Louisiana Society of Professional Engineers in Civil Service elected Ms. Robin Romeo to serve as president. Ms. Romeo graduated from Louisiana State University in 1984 with a bachelor's degree in Civil Engineering. While a student, she worked in research and construction at the Department of Transportation and Development. After graduation, she was employed for Gulf Ocean Services (formerly Odom Offshore) and the Capital Region Planning Commission. She became a full-time state employee in 1987, working in the DOTD Road Design Section until 1989. After a year in Traffic Engineering with the East Baton Rouge City Parish, she returned to DOTD and the District 61 Design Section where she has been employed since 1990.

Political Reform

March 8, 1994 was an historic day for government employed engineers, in fact it was an historic day for all Louisiana state government employees. On that day, 16 people representing various

state employee organizations came together to consider forming a coalition to address the severe restrictions which continue to be placed on state employees under Louisiana's "Hatch Act" and related laws and regulations. The gathering was hosted by the Louisiana Society of Professional Engineers in Civil Service Political Reform Committee. Participants represented 10 organizations, with a total membership of more than 8,000 state employees.

All organization representatives at the meeting expressed interest in returning to their respective organizations to discuss the proposal for a coalition. A follow-up meeting was held April 27 to discuss the coalition's goal, plan of action and the proposed law change. The coalition will seek a legal opinion on any proposed law change and will meet again to discuss the coalition's future course of action.

LSPECS Education Committee

With mandatory continuing professional competency for registration license renewal being on the horizon, the Education Committee is soliciting input from members and others for topics/subjects to be considered for future educational offerings. For DOTD employees, this will enhance and support engineering continuing education opportunities currently offered by the Louisiana Transportation Research Center (LTRC).

LSPECS Membership Committee

As stated in LSPECS first article, we are an organization composed of professional engineers and land surveyors who work in state government. Membership has traditionally included career engineers from all levels of professional positions in the Department of Transportation and Development, including engineers-in-training, designers, project engineers, managers and administrators. We encourage and seek membership from other state agencies. Participation from the Division of Administration, the Department of Natural Resources, the Department of Environmental Quality and the Department of Health and Hospitals is steadily increasing. The committee has had recruiting drives at DEQ and will continue to solicit prospective members at other state agencies. *LE*

CALENDAR OF EVENTS

We invite all technical and professional organizations to submit their meeting dates for publication in the *Louisiana Engineer* to: Editor, P. O. Box 2683, Baton Rouge, LA 70821.

June 1994

- 15-18 LES Annual Meeting
Ramada Inn
Alexandria, LA
- 23-25 CEC/L Annual Meeting
River Park Hotel
Natchez, MS

July 1994

- 9-16 NSPE Annual Meeting
Hyatt Regency Crown Center
Kansas City, MO
- 25-26 State Board of Registration Meeting
New Orleans, LA

August 1994

- 2-5 NCEES Annual Meeting
Rapid City, SD

In Memoriam

A donation to the

LOUISIANA ENGINEERING FOUNDATION

is a fine way to remember and honor a departed friend. A call, a fax or a letter to the Secretary of the LEF is all that is necessary to make your donation. The family of the deceased will be promptly notified, and the friend's name will be recorded on the Foundation's Memorial plaque.

LOUISIANA ENGINEERING FOUNDATION

P.O. Box 2683 • Baton Rouge, LA 70821 • Phone (504) 344-4318 • FAX (504) 344-4319

Louisiana Engineering Society 1994 Board of Direction



PRESIDENT
Edgar P. Benoit, P.E.
Manager, Power Systems Planning
Cajun Electric Power Cooperative, Inc.
Baton Rouge, LA



PRESIDENT-ELECT
Carl A. Jakob, P.E.
Vice President
Gulf South Engineers, Inc.
Houma, LA



SECOND VICE PRESIDENT
Robert A. Brossette, Jr., P.E.
Manager
Technical Support
Entergy Corporation
New Orleans, LA



SECRETARY-TREASURER
Ronald J. Rodi, P.E.
Principal
Chenevert-Songy-Rodi-Soderberg
An Engineering/Architectural
Corporation
Baton Rouge, LA



NATIONAL DIRECTOR
James L. Meyer, P.E.
President
Meyer, Meyer, LaCroix &
Hixson, Inc.
Alexandria, LA



STATE DIRECTOR
John J. Plaisance, II, P.E.
President
J. Wayne Plaisance, Inc.
Galliano, LA



STATE DIRECTOR
Ann Forte Trappey, P.E.
Chief Executive Officer
Forte and Tablada, Inc.
Baton Rouge, LA



STATE DIRECTOR
James N. Moore, P.E.
State Design Engineer
U.S. Dept. of Agriculture Soil
Conservation Service
Alexandria, LA



STATE DIRECTOR
Theodore H. Thompson, P.E.
Safety Engineer, EEO
Compliance
F. Miller & Sons, Inc.
Lake Charles, LA



PAST PRESIDENT
Dale T. Hunn, P.E.
Vice President
Project Manager
Waldemar S. Nelson & Co., Inc.
New Orleans, LA

Chapter Presidents



ALEXANDRIA CHAPTER PRESIDENT

Donald W. Clayton, P.E.
Executive Vice President
Ballard & Associates, Inc.
Alexandria, LA



BATON ROUGE CHAPTER PRESIDENT

Steve M. Boudreaux, P.E.
Principal
ABMB Engineers, Inc.
Baton Rouge, LA



BAYOU CHAPTER PRESIDENT

Kenneth W. Smith, P.E.
Executive Vice President
T. Baker Smith & Son, Inc.
Houma, LA



LAFAYETTE CHAPTER PRESIDENT

Susan H. Richard, P.E.
Project Engineer
Domingue, Szabo & Associates, Inc.
Lafayette, LA



LAKE CHARLES CHAPTER PRESIDENT

Ronald R. Dupont, P.E.
Project Engineer
LA Department of
Transportation
and Development
Lake Charles, LA



MONROE CHAPTER PRESIDENT

John H. Eason, P.E.
Assistant Resident Engineer
LA Department of
Transportation
and Development
Monroe, LA



NEW ORLEANS CHAPTER PRESIDENT

Lonnie G. Bassett, P.E.
Senior Mechanical Engineer
Wink Engineering
New Orleans, LA



SHREVEPORT CHAPTER PRESIDENT

Ruth L. Baker, P.E.
Louisiana Regional Engineer
Arkansas Louisiana Gas
Company
Shreveport, LA

Chairmen, Practice Divisions



CONSTRUCTION

Roger D. Melancon, P.E.
Senior Vice President,
Engineering
Gulf Industries, Inc.
Baton Rouge, LA



EDUCATION

Bobby E. Price, Ph.D., P.E.
Professor & Associate
Department Head
Department of Civil
Engineering
Louisiana Tech University
Ruston, LA



GOVERNMENT

Christopher D. Abadie, P.E.
Asphalt Research Engineer
Louisiana Transportation
Research Center
Baton Rouge, LA



INDUSTRY

Harold P. LeRay, P.E.
Manager of Engineering
South Louisiana Electric
Cooperative Association
Houma, LA



PRIVATE PRACTICE

Foy B. Gadberry, P.E.
Vice President
Lazenby & Associates, Inc.
West Monroe, LA



Gary Lee
McKinley Middle Magnet
School
Baton Rouge, LA



Bradley Schaefer
Lake Castle Private School
New Orleans, LA



Michael Hill
Episcopal High School
Baton Rouge, LA



Donald "Tuc" Henderson
Pinecrest School
West Monroe, LA



Marilyn Harsch, Coach
Boyett Junior High School
Slidell, LA

We are well aware of the much-publicized "crisis" in American education. Though improvements in American education have been noted since the publication of "A Nation at Risk" in 1983, America's schools have a long way to go. When the math scores of America's eight grade students were recently compared with scores from industrialized European nations and developing nations in Asia, America's students scored at the bottom.

In large part, the interests and skills students leave school with determine their career choices and their professional competence. Underachieving and unmotivated students, coupled with the "Baby Bust" of the last two decades has resulted in fewer and fewer mathematically literate students entering the workforce. This trend is particularly frightening in a society that depends increasingly upon mathematics as a foundation for nearly every aspect of its existence. Future manpower needs — particularly in the technological fields — will not be met unless more young people enter and excel in these fields.

This is where MATHCOUNTS comes in. MATHCOUNTS addresses these issues at a grass roots level because it is actually influencing the way math is taught in the schools. It motivates students to do well in math, and recognizes and rewards them for achievement. It gives America's seventh and eight grade math teachers, half of whom have no training in math, an incentive to excel in the classroom.

MATHCOUNTS builds skills, promotes strategic problem solving, and challenges students to sharpen their analytical abilities. It also provides a rare opportunity to bring seventh and eight graders together to prompt lively exchange of mathematical ideas through competition.

Analogous to a school sporting event, student "mathletes" are coached throughout the fall at the school level to participate as teams and individuals in a series of written and oral competitions at the chapter, state, and national levels. Each February, four students are selected to represent their school at a chapter (local) MATHCOUNTS competition. In March, chapter winners progress to state level competitions to compete for a chance to represent their state at the national finals. The national competition, held each May in

Washington, D.C., hosts four mathletes from every state to vie for the national championship.

Nationally, MATHCOUNTS is sponsored by the National Society of Professional Engineers, the CNA Insurance Companies, the Cray Research Foundation, the General Motors Foundation, the Intel Foundation, Texas Instruments Incorporated, the National Council of Teachers of Mathematics and the National Aeronautics and Space Administration.

State Competition

The 1994 competition was held at Louisiana State University, Baton Rouge. The top three teams from each of the eight LES chapters as well as one other individual winner from chapter competitions battled for the right to represent our state at the national finals in Washington, D.C.

The mathletes were housed at the Ramada Inn, and for the third year, mathletes were provided an opportunity to be introduced to the field of engineering through demonstrations, questions and answer sessions, and hands-on activities. The exhibits were designed to emphasize how engineering and mathematics can be applied to their lives. The small group format provided an opportunity for the mathletes to discuss engineering careers during the question and answer sessions.

National Competition

The 1994 Louisiana MATHCOUNTS team comprised of Gary C. Lee, McKinley Middle Magnet School, Baton Rouge, Bradley J. Schaefer, Lake Castle Private School, New Orleans, Michael A. Hill, Episcopal School, Baton Rouge, and Donald T. Henderson, Pinecrest School, West Monroe, and Coach Marilyn Harsch of Boyett Junior High School, Slidell, placed 34th in the national competition from a field of 56 teams. They were joined by 220 mathletes from all 50 states, the District of Columbia, Guam, Puerto Rico, the U.S. Virgin Islands, and Defense and State Department schools worldwide.

The Louisiana Engineering Society takes extreme pride in acknowledging the accomplishments of these four outstanding young individuals and their leader and coach, Marilyn Harsch. Our mathletes proved equal to the task and returned with national placements with randomly listed scores of 56, 148, 155, and 164 out of 224 competing students.

Congratulations to the following top Louisiana teams and individuals:

Top Ten Schools	Chapter
Boyett Junior High School	New Orleans
Lake Castle Private School	New Orleans
McKinley Middle Magnet School	Baton Rouge
J.D. Meisler Middle School	New Orleans
Sherwood Middle School	Baton Rouge
L.J. Alleman School	Lafayette
Elm Grove Middle School	Shreveport
Cedar Creek School	Monroe
Brame Junior High School	Alexandria
Episcopal High School	Baton Rouge

Top Ten Individuals	School
Gary Lee	McKinley Middle Magnet School
Bradley Schaefer	Lake Castle Private School
Michael Hill	Episcopal High School
Tuc Henderson	Pinecrest School
Ashley Schneider	Lake Castle Private School
Luke Chuang	J.D. Meisler Middle School
Neel Gupta	Lake Castle Private School
Kris Barnett	L.J. Alleman School
Eric Ng	Boyett Junior High School
Stephen Zuber	McKinley Middle Magnet School

For the past eleven years, the MATHCOUNTS Foundation and the Louisiana Engineering Society have been proud to be a part of the nationwide effort to increase mathematics achievement among our nation's youth. We are grateful to our sponsors, listed below, for making MATHCOUNTS possible, and are indebted to our volunteers for bringing MATHCOUNTS to millions of students.

State Sponsors

Central Louisiana Electric Company
 Freeport-McMoRan
 McDermott, Inc.
 Louisiana Engineering Foundation
 Louisiana Engineering Society
 Professional Engineers in Private Practice
 Ethyl Corporation
 CIBA-Geigy
 Jay Charles Smith, P.E.
 Glynn P. Gautreau, P.E.
 G.W. James, P.E.
 C.M. Foreman, P.E.
 Bobby E. Price, Ph.D., P.E.
 Dale T. Hunn, P.E.
 Shirley A. Stutes, P.E.
 Charles H. Weatherly, P.E.
 Cothren, Graff & Associates

PLEASE CUT ALONG THIS LINE

Ballot To Elect Consulting Engineers Council of Louisiana Members To Engineers Selection Board

Act 721 passed in the 1975 Regular Session amended Chapter 10 to Title 38 of the Louisiana Revised Statutes of 1950 by adding thereto a new Part VII, Selection of Professional Services for Public Contracts. Three Boards - Architects, Engineers, and Landscape Architects - are authorized under this Act. Each board awards design services contracts to qualified professionals.

The Act charges Consulting Engineers Council of Louisiana (CEC/L) with electing two professional engineers to serve on the Engineers Selection Board: one term beginning July 1, 1994 and ending June 30, 1995; and one beginning January 1, 1995 and ending December 31, 1995.

CEC/L nominates E. Berkley Traughber, P.E., Metairie, LA for the July 1, 1994 position and A. Rahman Bhatti, P.E., Metairie, LA for the January 1, 1995 position.

All properly licensed engineers, who are principals of firms with offices in Louisiana, may vote for the same number of candidates as there are positions to be filled.

Space is provided for write-in candidates. A write-in candidate must be a Louisiana registered Professional Engineer and must have agreed to serve if elected. No member or firm of which a member is an associate, employee, or stockholder shall be eligible to receive agency contracts during the term of his service, and for a period of six months thereafter.

ENGINEERS SELECTION BOARD BALLOT

Please mark your choices and return ballot to CEC/L, P.O. Box 1549, Baton Rouge, LA 70821 by June 28, 1994.

Vote for One Candidate in Each Position

POSITION ONE (Term July 1, 1994 - June 30, 1995)

☐ E. Berkley Traughber, P.E., Metairie, LA

☐ For write-in

POSITION TWO (Term January 1, 1995 - December 31, 1995)

☐ A. Rahman Bhatti, P.E., Metairie, LA

☐ For write-in

PLEASE VOTE. RETURN TO CEC/L, P. O. BOX 1549, BATON ROUGE, LA 70821 prior to June 28, 1994.

Professional Engineers:

AGRICULTURAL

Robert David Crawford
Zachary, LA

CHEMICAL

Stephen Patrick Litzinger
Destrehan, LA
Po-Sheng Lai
Lake Charles, LA
Harry Doane Gregg, Jr.
Prairieville, LA
Jimmy Don Orr
Baton Rouge, LA
Kevin Edward Millman
Baton Rouge, LA
James Louis Wallace
Baton Rouge, LA
Lawrence Adrian Hebert
Baton Rouge, LA
Crisse Nelson-Hall
Baton Rouge, LA
Bruce Allan Wilcox
Baton Rouge, LA
William Adolph Haug
Baton Rouge, LA
Michael Emmett Pendergrass
Baton Rouge, LA
Scott Weigel Kumler
Baton Rouge, LA
Douglas Theodore Barbe
Baton Rouge, LA

CIVIL

Dilipkumar Vrajlal Tank
Edison, NJ
Kurt Justus Koch
Raleigh, NC
William Earl Higginbotham
Atlanta, GA
Stephen Mark Azzinari
Panama City Beach, FL
Junaidie Budiman
Miami, FL
James Allen Meads
Birmingham, AL
Joseph Caesar Picciola II
Daphne, AL
Charles Alan Jayroe
Mobile, AL
Alan Joseph Pramuk
Franklin, TN
Phillip Eugene White
Nashville, TN
John Carleton Rutledge
Hixson, TN
Ronald Dale Yarbrough
Johnson City, TN
Robert Lee Smola, Sr.
Columbus, MS
Dennis Charles Starkey
Lebanon, OH
Michael David Miller
Litchfield, MN
Jerome Raymond Wool, Jr.
Metairie, LA
Sergio Joseph Girau
Harvey, LA
Joel Stephen Dorsa
Kenner, LA
George Emmanuel Sgouros
New Orleans, LA
Patrick Joseph Kenney
River Ridge, LA
William Kelly Martin
River Ridge, LA
Christian Scott Kendall
New Orleans, LA

Michael John Stack
New Orleans, LA
Nguyen Dinh Phan
New Orleans, LA
Brian David Broussard
Mandeville, LA
Joseph Baxter Heggie
Lafayette, LA
Philip Enrique Herrera
Lafayette, LA
Vincent Stephan Palumbo II
Lafayette, LA
Thomas Rhodes LaSalle
Lafayette, LA
Sharon Schuster Millemon
Lake Charles, LA
Joel Mitchell Ristau
Denham Springs, LA
Thomas Ben Poole
Zachary, LA
Joaquin Francisco Gudiel
Baton Rouge, LA
David Gale Pulliam
Baton Rouge, LA
Kirk Lowery
Baton Rouge, LA
David Sanford Hill
Baton Rouge, LA
Srinivas Maddipudi
Baton Rouge, LA
Larry Frank Broussard
Baton Rouge, LA
Mark Allen Stinson
Baton Rouge, LA
Terri Reese Robison
Baton Rouge, LA
David Lee Foster
Baton Rouge, LA
Theodore Glenn Burch
Baton Rouge, LA
Melinda Dianne Chambless
Baton Rouge, LA
Bryan Anthony Guidry
Baton Rouge, LA
William Patrick Paul
Baton Rouge, LA
Amanda Marie Sullivan
Baton Rouge, LA
James Josh Gilbert
Baton Rouge, LA
Kevin DeMarco Steed
Baton Rouge, LA
Robert Otto Bennett
Baton Rouge, LA
Steven Crawford Lewis
Baton Rouge, LA
Michael Hilliard Badeaux
Baton Rouge, LA
David Jeffrey Reid
Shreveport, LA
Robert Allen Davis
Ruston, LA
Chris Eric Russell
Pollock, LA
William Lewis Jones
N Little Rock, AR
John Dayton Garner
Katy, TX
Jack Cline Lind
Austin, TX

CONTROL SYSTEMS

Chadi Murr
Metairie, LA
Donald Gerald Iverson
Metairie, LA
Russ Anthony Stipelcovich
Arabi, LA
Lynn Francis Guidry
Baton Rouge, LA
Wade Courtney Stewart
Monroe, LA
Michael Ivan Bell
Monroe, LA

Lee Steven Blankenstein
Austin, TX

ELECTRICAL

Michael Joseph Benton
Nashville, TN
Thomas Lee Buehler
Olathe, KS
Stephen Michael Schmaltz
Metairie, LA
Dale Joseph Lambert
Metairie, LA
Bruce Paul Housey
Metairie, LA
Jeffrey John Gleason
Metairie, LA
Joseph Clement Algero III
Meraux, LA
William Gregory Schmidt
Mandeville, LA
Brian Steven Bourgeois
Slidell, LA
Mark Edward LeBlanc
Lake Charles, LA
Stanton Chandler Kirby
Shreveport, LA
Dewey Hubert Alexander, Jr.
Bastrop, LA
Donald Joe Elrod
Benton, AR
James Yet Hin Chee
Sugar Land, TX
Benjamin David Nunez
Beaumont, TX
Yashavant Vishnu Kulkarni
Phoenix, AZ
Rickert Chris Henriksen
Sacramento, CA

ENVIRONMENTAL

Minwen Liu
Brighton, MA
Phillip Walter Dziubla
Kenner, LA
Luanna Feduccia Cambas
Metairie, LA
Linda Dorcheus DuCharme
New Orleans, LA
Garnett Franklin Bedenbaugh
Hammond, LA
Charles John Konechne, Jr.
Slidell, LA
James Elwin Bowie, Jr.
Lafayette, LA
Donald Louis Richard
Lafayette, LA
Calvin Courville
Lafayette, LA
Stewart Andre Aucoin
Eunice, LA
Wayne Lyndon Harris
Sulphur, LA
Charles Winfield Webb, Jr.
Denham Springs, LA
Philip Miles Zimmerman
Baton Rouge, LA
David Fulton Odum
Baton Rouge, LA
Jorge Miguel Ferrer
Baton Rouge, LA
Joseph Thomas Smith
Baton Rouge, LA
John Dwain Walker
Baton Rouge, LA
Fred James Fletcher
Baton Rouge, LA
Bruce Joseph Alexius
Baton Rouge, LA
Eugene Randolph Cox, Jr.
Baton Rouge, LA
Frank Jeffrey Raley
Shreveport, LA

Glenn Carvelle Farrar
Shreveport, LA
Michael Ivan Bell
Monroe, LA
Terry Wayne Lewis
Eros, LA
Richard Dean Dick
Ruston, LA
Foy Bryan Gadberry
West Monroe, LA
Thomas Dudley Hixson
Alexandria, LA
Paul David Trimble
Natchitoches, LA

INDUSTRIAL

Mark Bradley Lynch
Ruston, LA

MECHANICAL

Earle Blair Fox, Jr.
Haverford, PA
John Edward Farrell
Herndon, VA
Mathew Michael Schon
Charlotte, NC
Sid Ahmed Bendahmane
Wilmington, NC
Michael Paul Lauman
Duluth, GA
Amir Kazeminia
Altamonte Springs, FL
Kim E. Shinn
Nashville, TN
Thomas Rastin
Mt Vernon, OH
Michael Edward Herzog
Metairie, LA
Frank Noe Bayona, Jr.
Metairie, LA
Scott Emile Develle
Laplace, LA
Michael John Lowenhaupt
Metairie, LA
Michael Stephen Rabito
Kenner, LA
Kenneth Mike Hatcher
Belle Chasse, LA
Charles David Billings
Destrehan, LA
Russell Simonds Westerhaus
Destrehan, LA
Isaac Joseph Schantz
Gretna, LA
Trav Andrew Thiesse
Kenner, LA
John Denis Taylor
Kenner, LA
Darrell Rhea Mosier
New Orleans, LA
Robert Allen Grubba
New Orleans, LA
Mark Damion Smith
New Orleans, LA
Bradley John Bruff
New Orleans, LA
Allison Ann McKenzie
New Orleans, LA
John Randall Cootes
New Orleans, LA
Kurt Douglas Shallenberger
Covington, LA
Frank Komitsky III
Mandeville, LA
Chad Randal Miller
Lafayette, LA
Martin Scott Bourg, Jr.
Youngsville, LA
Jiping Qiu
Lake Charles, LA
Franklin Berwick Staggs
Lake Charles, LA

Steven Charles Derouen
Iowa, LA
Brandon Sevier Nadler
Plaquemine, LA
Stephen Christopher Leonard
Baton Rouge, LA
Rajiv Kumar Jindia
Baton Rouge, LA
James Randel Haley
Baton Rouge, LA
Mark Daniel Altazin
Baton Rouge, LA
Jeffrey Skaggs McReynolds
Baton Rouge, LA
Richard Hobart Dimmock, Jr.
Baton Rouge, LA
James Edward Coward
Baton Rouge, LA
Paul Alan Ensinger
Baton Rouge, LA
James Landon Watson
Baton Rouge, LA
Roland Brett Thompson
Baton Rouge, LA
Gordon Anthony Geoffroy
Baton Rouge, LA
Douglas Timothy Strickland
Baton Rouge, LA
Timothy Ford Martin
Shreveport, LA
Tuan Hoang Nguyen
Bossier City, LA
Jeffrey Richard Terracciano
Monroe, LA
William Wallace Frankfort III
Edmond, OK
Russell Artis Wolf
Tulsa, OK
Sharon Parr Nelson
Conroe, TX
Kevin Dan Milgrim
San Diego, CA

METALLURGICAL

Peter Paul Lazar III
Baton Rouge, LA

MINING

James Michael McHenry
Covington, LA

PETROLEUM

Burton Hall Baker
Destrehan, LA
Scott Douglas Bruner
Kenner, LA
Mark Anthony Bergeron
New Orleans, LA
James Douglas Wildharber
Lafayette, LA
Kevin Curtis Olson
Lafayette, LA
Bradley Grant Middleton
Arnaudville, LA
Cheryl Cummings Warren
Baton Rouge, LA
Richard Todd Keating
Baton Rouge, LA
Gregory Wayne Armes
Houston, TX



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



Engineering In An Industrial Operation

The Louisiana Law which applies to engineering in an industrial operation may be found in Louisiana Revised Statute 37:701.C. It states:

This Chapter shall not apply to, affect, interfere with, or in anywise regulate employees of a person, firm, or corporation engaged in industrial operations, including, but not limited to, producing, processing, manufacturing, transmitting, distributing, or transporting, when performing services within the state of Louisiana in the course and scope of the business of said person, firm, corporation, or affiliates thereof. In the event any of the activities set forth in this Subsection shall fall within the definition of practice of engineering as defined in Paragraph (8) of Section 682 of this Chapter, such activities shall be under the supervision and charge of a professional engineer, duly registered under the provisions of this Chapter. However, this Subsection shall not apply to persons practicing civil engineering or land surveying, who must at all times comply with the provisions of this Chapter.

Read it again. What does it say? Have your associate read it and ask him what it means. Confusing? I think everyone will agree it is confusing.

The Board, industry, the professionals, and the public have wrestled with this law for many years. Over the last three or four years, the Board has given the assignments to resolve this confusion to two different Ad Hoc Committees. In my position as the Executive Secretary of the Board, I've had the opportunity to be present and heard all the debates, arguments, consensuses, and agreements. Please allow me to give you my opinion where we are on this issue. The last sentence of this statute states, that if the work is civil engineering (whatever that may be — I'll leave that definition, "educational authorities" see Louisiana Revised Statute 37:682 (8)) the law and rules of the Board apply.

The first sentence may be saying that the law and the rules of the Board do not apply and should not interfere with working in an industrial operation.

If we only had the first and last sentence of this law, we could conclude that the law says that the rules of the Board apply if it's civil engineering and land surveying but it does not apply if it's something else.

But hold on, there's a middle sentence which states, "that if the activities is engineering then the work has to be under the supervision and charge of a professional engineer". Two Ad Hoc Committees have worked many long hours to understand what this middle sentence means. The Notice of Intent which follows addresses only that issue. It is the beginning of understanding of Louisiana Revised Statutes 37:701.C. This is a tough issue. Industry, the public, the professionals, and the Board need these definitions. The Board's intention is stated below. Please let us have your comments.

NOTICE OF INTENT

Department of Transportation and Development Board of Registration for Professional Engineers and Land Surveyors

In accordance with the Louisiana Revised Statutes 49:950, et seq., notice is hereby given that the Louisiana State Board of Registration for Professional Engineers and Land Surveyors intends to revise Louisiana Administrative Code 46:LXI as follows:

Title 46

Professional And Occupational Standards Part LXI. Professional Engineers and Land Surveyors Subpart I. Rules

Chapter 1. General Provisions

§105 Definitions

- J. "Under the supervision and charge of a professional engineer" as it applies in Louisiana Revised Statute 37:701(C) only, shall mean:
1. The work performed by a professional engineer, duly registered under the provisions of this Chapter; or
 2. The work reviewed and approved by a professional engineer, duly registered under the provisions of this Chapter, who is authorized to direct changes to the engineering work; or
 3. The work performed in accordance with a system of engineering practices approved by a professional engineer, duly registered under the provisions of this Chapter.
- K. "Employees", for purposes of Louisiana Revised Statute 37:701(C) only, shall mean:
1. Any and all persons to or for whom a person, firm or corporation engaged in industrial operations pays salary or other compensation, withholds taxes, provides benefits or pays workers' compensation and/or liability insurance, including without limitation all persons covered by the definition of "Bona fide employee" as set forth in the Rules of the Board; or
 2. Any and all persons whose conduct a person, firm or corporation engaged in industrial operations has the right to control, including the right to hire, fire or directly supervise, the right to set the person's work schedule and job duties, or the right to set the terms and conditions of employment, including without limitation individuals supplied through an employment agency or consultant firm;

AUTHORITY NOTE: Promulgated in accordance with R.S. 37:688, 37:689, and 37:701.

HISTORICAL NOTE: Promulgated by the Department of Transportation and Development, Board of Registration for Professional Engineers and Surveyors, LR 20: ____ (May, 1994).

These proposed rules are to become effective, August 20, 1994, or upon publication in the *Louisiana Register*.

A public hearing will be held on July 1, 1994, at 1:30 p.m. - 3:30 p.m. at the Board Office at 1055 St. Charles Avenue, Suite 415, New Orleans, Louisiana 70130. Interested persons are invited to attend and submit oral comments on the proposed rules.

The public is also invited to submit written comments or offer amendments to the proposed rules to the Board Office at 1055 St. Charles Avenue, Suite 415, New Orleans, Louisiana 70130, at any time prior to July 15, 1994. The Board proposes to consider and take action on the adoption of this rule at a meeting in its office at 11:00 a.m. on July 26, 1994.*LE*

BOARD MEETING NOTICE

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

1994

July 25-26 Sept. 26-27 Nov. 7-8

SCHEDULE OF EXAMINATION DATES

Examination	Examination Date	Application Postmark Date
Principles & Practice of Engineering (8 hr.) Civil (Including Structural & Sanitary), Chemical, Electrical & Mechanical	10/28/94 04/07/95	08/01/94 01/09/95
Agricultural, Control Systems, Environmental, Industrial, Metallurgical, Mining, Nuclear and Petroleum	10/28/94 10/27/95 10/25/96	08/01/94 07/31/95 07/29/96
Principles & Practice of Land Surveying (6 hr.)	10/28/94 04/07/95	05/02/94 10/10/94
LA Laws & Procedures of Land Surveying (2 hr.)	04/07/95 04/19/96	10/10/94 10/23/95
Fundamentals of Land Surveying (8 hr.)	10/29/94 04/08/95	05/02/94 10/10/94
Fundamentals of Engineering (8 hr.)	10/29/94 04/08/95	08/01/94 01/09/95

Application — NOT Pre-application — must be postmarked not later than the date indicated before an applicant will be considered for the respective examination. Note that the approximate interval between postmark dates and examination dates is 180 days for land surveying examinations 90 days for engineering examinations.

The Board may schedule an applicant for an examination later than the examination requested by the applicant and cannot guarantee that the applicant will be scheduled for the examination initially requested.

An oral examination will be scheduled for Professional Land Surveyor applicants prior to any required written examinations.

Test Your Knowledge of the Registration Law

1. During the actual taking of the respective professional registration examination the following is/are true:

A. When permitted, textbooks, handbooks, bound references, battery-powered, non-printing, silent calculators (programmable or non-programmable) and slide rules may be used

B. Examinees will "NOT" be permitted to exchange, lend, or borrow any information, books, calculators, reference material or aids during the examination

C. "NO" loose leaf sheets, writing tablets, unbound tables or charts, or unbound notes (including notes in loose-leaf ring binders) will be permitted

D. All of the above.

2. By statute which of the following powers may the Board exercise?

A. Power of arrest

B. Power to subpoena witnesses

C. Power to compel the production of books and papers pertinent to any investigation or hearing

D. A & B above

E. B & C above

3. Any person failing to appear before the Board in response to a subpoena or to answer any questions or produce pertinent books or papers may be ordered by a district court with jurisdiction to appear before the Board to testify or produce evidence.

A. True

B. False

4. Registrants or certificate holders aggrieved by any action of the Board in denying, suspending, refusing to renew, or revoking a certificate of registration or certification or levying a fine may appeal, pursuant to the provisions of:

A. The Civil Court

B. Administrative Procedure Act

C. The fairness doctrine for state government

D. Federal employment statutes

5. Under which of the following provisions does the Board no longer register engineers
 - A. Education
 - B. Education and experience
 - C. Long established practice
 - D. Examination
6. The teaching of engineering may be construed as the practice of engineering:
 - A. True
 - B. False
7. By oral or written examinations, the Board may require applicants to demonstrate their knowledge of which of the following:
 - A. Laws
 - B. Rules
 - C. English language
 - D. All of the above
8. Responsible charge means:
 - A. Having direct control and personal supervision of the engineering work or land surveying
 - B. Familiarity with the persons doing the engineering or land surveying
 - C. Being an officer in the company
 - D. Familiarity with the project
9. The main purpose of the registration law is to:
 - A. Safeguard life, health, and property and to promote the public welfare
 - B. Assist foreign and domestic corporations in their business projects
 - C. Aid universities in the state
 - D. Help engineers and land surveyors in securing work
10. The rules of professional conduct apply to:
 - A. Professional engineers
 - B. Professional land surveyors
 - C. Engineers-in-training and land surveyors-in-training
 - D. Registered engineering and land surveying corporations
 - E. All of the above

The answers can be found on page 20.

Turn your
excess inventory
into a tax break
and help send needy
kids to college.

Call for your
free guide
to learn how donating
your slow moving inventory
can mean a generous
tax write off
for your company.

Call 708-690-0010

PETER ROSKAM
Executive Director



P.O. Box 3021, Glen Ellyn, IL 60138
Fax (708) 690-0565



"Fenton, you've got 10 seconds to remove that lampshade. And just 10 days to get all these surplus lampshades out of here."

Excess inventory today...student opportunity tomorrow

IN MEMORIAM

Lawrence "Larry" Paulk, P.E., a long time employee of Gulf South Engineers, Inc., Houma, passed away on March 8, 1994. Larry was a 1967 graduate of Lamar University and a registered Professional Engineer in Louisiana, Mississippi and Alabama.

IN MEMORIAM

James "Drew" Dupont, E.I.T., an employee of Terrebonne Parish Waterworks, passed away on March 9, 1994. Drew was a 1979 graduate of Nicholls State University and an affiliate member of LES. He served as the Bayou Chapter Scholarship Committee Chairman since 1990.

Survey Shows Billing Rates Increase

For the first time in four years, a general increase in typical hourly billing rates has been found. The 1994 PSMJ Design Services Fee Survey results show billing rates rose 4% to 5% from the levels found in the same survey one year ago.

"The rise in billing rates is a very strong indicator that design firms have turned the corner on the recovery", says Frank Stasiowski, publisher of the **Professional Services Management Journal (PSMJ)**. "But firms still have a long way to go before fees are back where they were in the late 80s".

Among the factors cited by Stasiowski to support fees being lower than four years ago:

- Inflation, over the last 3 years has been more than double the increase in billing rates, indicating inflation adjusted rates are lower today than in the late 80s.
- Many favorable contract terms, including liability limitation, contract retainers and late payment penalties are being used less frequently.
- An overwhelming majority (92%) of the participating firms believe competition for projects based on fees is increasing.

"Firms may be seeing some improvements in fee levels, but it is still a very tough marketplace", added Bill Fanning, PSMJ's director of research.

"The design services market has become very stratified in fees and services", commented Stasiowski. "In markets where fee levels have remained stable, services included have increased, while in the more price competitive markets, services are being reduced to compete".

"This difference in service levels based on fees means firms have to customize how they propose and perform projects", says Fanning. "Having a firm standard scope of work and project performance just will not work today".

Another major continuing trend is the shift of project efforts and fees to address issues of social concern.

"Fees for environmental, energy use and safety aspects of a project have gone up", says Stasiowski. "This shows owners are addressing these social concerns by placing more emphasis on these parts of the projects".

A third trend noted is the decrease in firms providing some of the traditional project deliverables which were project unique.

"It appears computers have finally made a change in how owners expect projects to be documented", says Fanning. "Where some owners used to require detail cost estimates or custom specification formats, standard computer programs have now reduced the need for documentation and customization in these areas".

Other survey findings include:

- Computer billing rates continue their long decline, with CADD now billed at \$20 per hour (when it is billed).
- Sixty percent of the participating firms do not bill separately for computer time.
- The median "hit rate" on proposals is 29%.

- Firms now receive 40% of their work from selections where price is a factor.
- Seventy-four percent of the participating firms have participated in project selections where price is a factor.
- Firms receive a median of 75% of their current work from repeat clients.
- Firms devote 9% of their marketing effort to administration, 17% to new client development and 20% to client maintenance. The largest efforts (49%) are devoted to proposal responses, presentations and negotiations.
- Billing rates are lower and contract terms are less favorable for firms serving government sector clients.

"Overall, this survey indicates the recession is over and economic trends are somewhat more favorable", says Stasiowski. "The profession is seeing moderate improvement, but it is still far from a good economy."

The complete 225 page survey is now available from PSMJ. To obtain a copy, send \$243 to: **Professional Services Management Journal**, Ten Midland Avenue, Newton, MA 02158 (617) 965-0055.

The full survey shows fee and contract terms by firm size, type, region and source of work. Also included are sections on computer billing, government price limitations, marketing functions and results and bidding/price competition. The survey also shows fee levels by discipline and scope of services for 44 major project types.

(From: "Professional Services Management Journal," published by Professional Services Management Association, Ten Midland Avenue, Newton, MA 02158 (617) 965-0055).





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



ACEC Peer Review Celebrates 10th Year of Promoting Excellence in Profession

Washington, D.C.—(April 18, 1994)—The American Consulting Engineers Council (ACEC) is currently celebrating the 10th anniversary of the most effective program consulting engineering firms can use to ensure the quality of their business practices and procedures—ACEC's Peer Review Program.

Initiated in 1984 to help engineering firms streamline their business practices and to promote quality in all facets of the profession, ACEC's Peer Review Program has grown in popularity every year since its inception. Ten years later, 600 firms, representing more than 10 percent of all ACEC member firms from all over the U.S. have had at least one peer review per year and that number is climbing.

The peer review involves a comprehensive and focused look at several key business practices areas, including general management, professional development, project management, human resources management, financial management, and business development. The peer reviews, which are voluntary and confidential, are conducted by peer review teams made up of other ACEC members who are professional engineers.

The firms being reviewed choose whether the reviewing team looks at any one or all of these areas, and also may ask to have other areas reviewed. Firms that have been reviewed are overwhelmingly positive about the results of the program.

"The peer review was our first phase in making our firm the best it can be... We sincerely appreciate the peer reviews unselfish devotion to the profession and business, by sharing their time and knowledge with us," said Gerald J. Bizjak, president of Becher-Hoppe Associates, Inc., Wausau, Wis.

"Our peer review, the second in eight years, proved to be very valuable to us in the areas of management succession, employee orientation programs, project management, financial management, business development and management of branch offices," said Jack Kinstlinger, chairman and CEO of KCI Technologies, Baltimore, Md., and chairman of ACEC's Transportation Committee.

The peer reviewers themselves also share the belief that the program is a valuable and productive part of ACEC's business practices initiatives.

Bob Wade, a vice president on ACEC's Executive Committee and peer reviewer since the inception of the program, said peer review "offers a great opportunity to meet with your peers from all over the country, and to often come away with as many good ideas as you give. Of course, the question we are faced with is, 'did we really do any good?' I have been in the program so long that I have peer reviewed some firms twice and experience great satisfaction when I realize during the second review that they have implemented the findings of the first review," Wade said. Many times, well-run firms take second and third peer review, Wade added, simply to "get a report card or a check up" of their business practices.

For more information about Peer Review, call Francis George at ACEC at (202) 347-7474.

ACEC is a national professional association representing the business interests of more than 5,000 private-practice consulting engineering firms that employ 172,000 engineers, scientists, and technicians, annually designing \$100 billion in constructed public works and private facilities. LE

POSITION AVAILABLE

Engineer Administrator

Professional Engineer with experience in DOS, Windows, and Unix operating systems with supervising experience preferred for full-time position as a staff person on the Board of Registration for Professional Engineers and Land Surveyors. Please submit resume (with acceptable salary) to LSBRPELS, 1055 St. Charles Avenue, Ste. 415, New Orleans, LA 70130-3997. This is an equal opportunity employer M/F.



SERVING DESIGN PROFESSIONALS IN PRIVATE PRACTICE

PROFESSIONAL LIABILITY INSURANCE

LOSS PREVENTION - RISK MANAGEMENT ASSISTANCE

ALEXANDER & SANDERS INSURANCE

9613 BROOKLINE • BATON ROUGE • 70809 • 504/924-1371

State Population Per Engineering College (50 States and DC)

by: John N. Crisp, Ph.D., P.E.
Dean, College of Engineering, University of New Orleans

The six engineering deans (state supported) were asked by Dr. Sammy Cospers, Commissioner of Higher Education, in 1991 to conduct a study of engineering in Louisiana. They were assigned seven tasks and were required to submit their report in early 1992. One important outcome of the study was the comparison of the number of engineering colleges in Louisiana with those in other states.

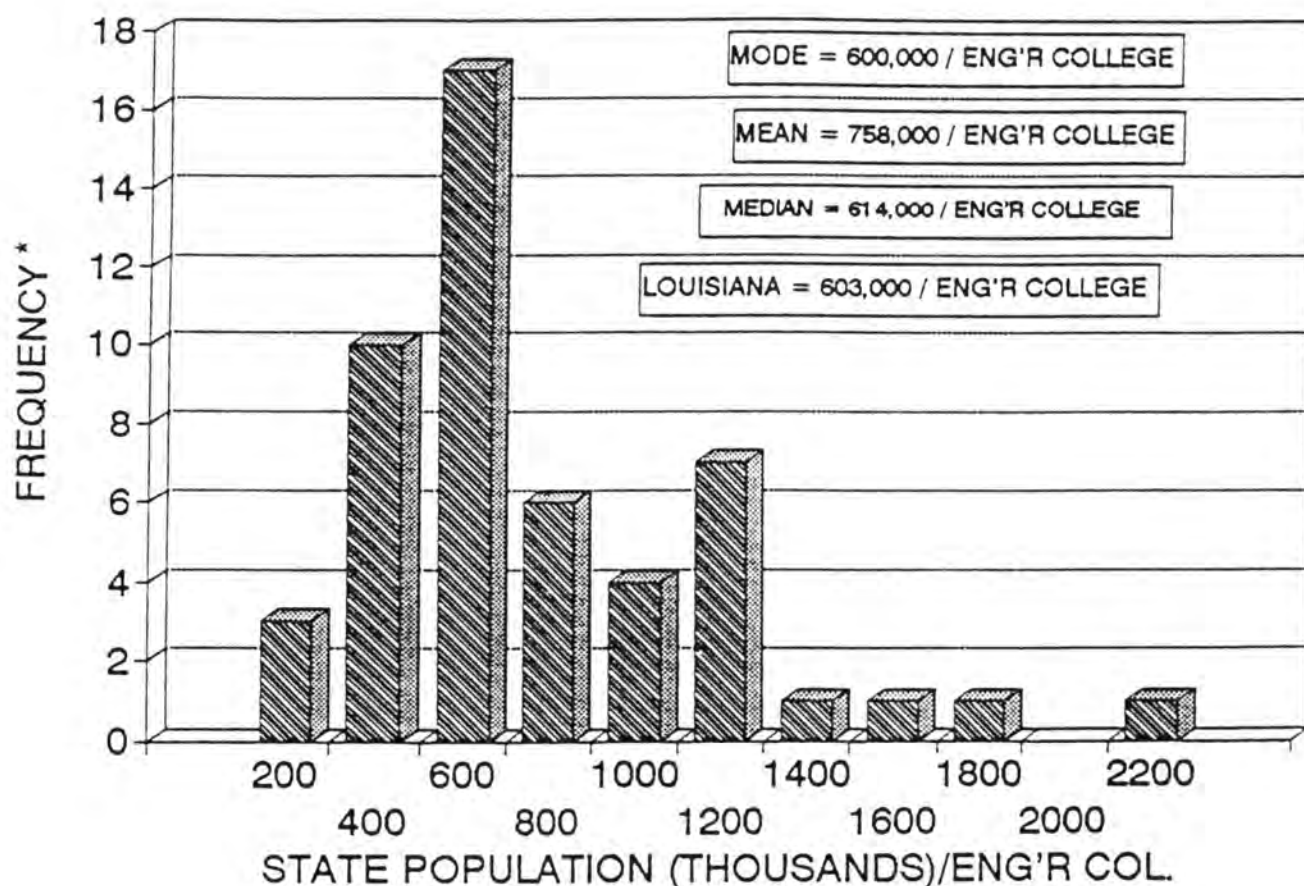
At present six public and one private university offer engineering programs in Louisiana. Figure 2.1 from the deans' report shows com-

parative data based on the 1990 population by states and the corresponding number of engineering colleges for all 50 states and the District of Columbia. Table B.1 shows the ranking of states alphabetically and Table B.2 shows the position of Louisiana relative to the other states. Clearly Louisiana is near the median for the country.

Comments, questions, any update or corrections on the data are appreciated and should be addressed to John N. Crisp, Dean, College of Engineering, University of New Orleans, New Orleans, LA 70148.LE

Figure 2.1

STATE POPULATION (THOUSANDS) PER ENG'R COLLEGE (50 STATES & DIST. OF COLUMBIA)



* Number of States with state population per engineering college in the range shown, e. g. there are 10 states that have a population of from 300,000 to 500,000 people per engineering college.

Table B.1 - 1990 Population by States and Number of Engineering Colleges

STATE	POP. (thousands)	NO. ENGR. COLLEGES	MPOP./ COLLEGE
Alabama	4041	6	674
Alaska	550	2	275
Arizona	3665	4	916
Arkansas	2351	4	588
California	29760	34	875
Colorado	3294	9	366
Connecticut	3287	8	411
DC	607	4	152
Delaware	666	1	666
Florida	12938	10	1294
Georgia	6478	3	2159
Hawaii	1108	1	1108
Idaho	1007	2	504
Illinois	11431	9	1270
Indiana	5544	10	554
Iowa	2777	5	555
Kansas	2478	3	826
Kentucky	3685	2	1842
Louisiana	4220	7	603
Maine	1228	2	614
Maryland	4781	6	797
Massachusetts	6016	12	501
Michigan	9295	14	664
Minnesota	4375	5	875
Mississippi	2573	2	1286
Missouri	5117	4	1279
Montana	799	2	400
Nebraska	1578	1	1578
Nevada	1202	3	401
New Hampshire	1109	3	370
New Jersey	7730	6	1288
New Mexico	1515	3	505
New York	17990	27	666
North Carolina	6629	5	1326
North Dakota	639	2	320
Ohio	10847	15	723
Oklahoma	3146	6	524
Oregon	2842	3	947
Pennsylvania	11882	18	660
Rhode Island	1003	2	502
South Carolina	3487	3	1162
South Dakota	696	2	348
Tennessee	4877	9	542
Texas	16987	20	849
Utah	1723	3	574
Vermont	563	2	282
Virginia	6187	6	1031
Washington	4867	9	541
West Virginia	1793	3	598
Wisconsin	4892	5	978
Wyoming	454	1	454
TOTAL	248709	328	39223
AVG.	4876.6	AVG.	769.1

**Table B.2 - 1990 Population by States & Number of Engineering Colleges
Ranked by Population (Thousands)/Engineering Colleges**

STATE	POP. (thousands)	NO. ENGR. COLLEGES	MPOP./ COLLEGE
DC	607	4	152
Alaska	550	2	275
Vermont	563	2	282
North Dakota	639	2	320
South Dakota	696	2	348
Colorado	3294	9	366
New Hampshire	1109	3	370
Montana	799	2	400
Nevada	1202	3	401
Connecticut	3287	8	411
Wyoming	454	1	454
Massachusetts	6016	12	501
Rhode Island	1003	2	502
Idaho	1007	2	504
New Mexico	1515	3	505
Oklahoma	3146	6	524
Washington	4867	9	541
Tennessee	4877	9	542
Indiana	5544	10	554
Iowa	2777	5	555
Utah	1723	3	574
Arkansas	2351	4	588
West Virginia	1793	3	598
Louisiana	4220	7	603
Maine	1228	2	614
Pennsylvania	11882	18	660
Michigan	9295	14	664
Delaware	666	1	666
New York	17990	27	666
Alabama	4041	6	674
Ohio	10847	15	723
Maryland	4781	6	797
Kansas	2478	3	826
Texas	16987	20	849
California	29760	34	875
Minnesota	4375	5	875
Arizona	3665	4	916
Oregon	2842	3	947
Wisconsin	4892	5	978
Virginia	6187	6	1031
Hawaii	1108	1	1108
South Carolina	3487	3	1162
Illinois	11431	9	1270
Missouri	5117	4	1279
Mississippi	2573	2	1286
New Jersey	7730	6	1288
Florida	12938	10	1294
North Carolina	6629	5	1326
Nebraska	1578	1	1578
Kentucky	3685	2	1842
Georgia	6478	3	2159
TOTAL	248709	328	39223
AVG.	4876.6	AVG.	769.1

Jefferson Parish Adopts S.B.C.C.I.

Jefferson Parish, Louisiana, is pleased to announce the adoption of the Standard Building Code 1991 Edition and other standard codes promulgated by the Southern Building Code Congress International.

This should be a great asset to those holding engineering and contracting license in the State of Louisiana.

The existing Jefferson Parish Building Codes may be used until June 1, 1994 at which time the adopted S.B.C.C.I. Codes will become the law. If you should have relevant questions concerning the new codes, please contact Jefferson Parish Inspection and Code Enforcement Department, Office of the Director.

Bingham Wins ASCE Young Engineer Award

Miles Brawner Bingham, P.E., was presented the 1993 *Edmund Friedman Young Engineer Award for Professional Achievement* in ceremonies at the American Society of Civil Engineers' National Convention in Dallas. Bingham is an assistant vice president with David Volkert & Associates in Metairie and currently serves as president-elect of the ASCE New Orleans Branch.

The Friedman Award, presented by ASCE each year to a select few across the nation, goes to a young engineer for outstanding efforts to enhance the engineering profession through professional achievement, technical excellence, high character and public service. Bingham was chosen by a national committee with the nomination and recommendations of the Louisiana Section and New Orleans Branch of ASCE.

Working on a multitude of projects, Bingham has been involved in all aspects of engineering, including planning, design, rehabilitation, preparation of bid documents and inspection. Rather than applaud his work on a particular project, Bingham said that the award recognizes his consistent effort to provide the best engineering service on a variety of common projects. "What counts is that the customer gets what they want, not to make something that will impress other engineers," Bingham said.

But Bingham's work has impressed others. He so distinguished himself as a project manager and design engineer that he was made manager of Volkert's Metairie office just 7 years out of college. "I was confident that I would some day manage an engineering office," Bingham said, "but this promotion was much sooner than I had ever imagined."

A graduate of Tulane University, Bingham earned both a Bachelor's and Master's degrees in civil engineering. The 32-year-old Massachusetts native has been a registered professional engineer in Louisiana since 1989, with licenses to practice in four other states as well.

Bingham has also immersed himself in ASCE, serving for the past 3 years as an officer of the New Orleans Branch and as contact member for the UNO Student Chapter. For the three years he was editor of the branch newsletter, ASCE recognized the branch with certificates for "creativity in producing an exemplary newsletter."

As a participant in the mentorship program at John Clancy Elementary School in Kenner, Bingham works with at-risk students. "The idea is to give these kids someone to look up to and for them to get a little special attention," he said. Bingham regularly visits with

two third-grade girls to talk about school, help with homework or just talk about their lives and futures.

Midboe to Act as Special Consultant to Walk, Haydel & Associates, Inc.

Walk, Haydel & Associates, Inc. has announced the association of Kai David Midboe as Special Consultant. Midboe, a lawyer, recently served as Secretary of the Louisiana Department of Environmental Quality (DEQ). Midboe will provide Walk, Haydel advice on federal and state Regulatory issues, environmental matters such as RCRA and CERCLA and business development.

Midboe, appointed DEQ Secretary by current Louisiana Governor Edwin Edwards, is credited with bringing openness and fairness to the department. He created the Governor's Task Force on Environmental Quality and the DEQ Ombudsman to ensure all parties, business and environmental, were involved in resolving the state's environmental concerns. He created the highly acclaimed DEQ magazine, Louisiana Environmentalist to provide citizens an understanding of the scientific and factual issues involved in environmental problems, and what is being done to resolve them. He established the Pre-Permit Review and Small Business Assistance Programs to help businesses through the often difficult DEQ regulatory process. His administration of DEQ won, with the Louisiana State Police, the prestigious "Conservation Organization of the Year Award" from the Louisiana Wildlife Federation for its environmental enforcement program, and the EPA "Environmental Excellence Award" for the Non-Point Source Water Pollution Program.

Firm Chairmen Frank Walk and Jerry Haydel said, "Midboe's extensive governmental experience, particularly having served in the state's top environmental post, should provide an extra dimension to the already comprehensive services provided by the Walk, Haydel."

Thigpen Wins First Engineering Alum Award

The first-ever Louisiana Tech mechanical and industrial Engineering Department Distinguished Alumni Award has been bestowed on Dr. Joseph Jackson "Jack" Thigpen.

Thigpen, a Ruston resident, is a 1936 graduate of the mechanical engineering department. He later served as department head for 22 years and dean of the College of Engineering for six years.

The award was presented by Tech President Dan Reneau in recognition of Thigpen's outstanding service in university education and for promotion and advancement of both the department and the college.

Thigpen received his master's and doctorate from the University of Texas at Austin. His professional experience includes work with Seismic Explorations of Houston and the Army Corps of Engineers.

He returned to Louisiana Tech in 1947 as a faculty member and remained until his retirement in 1982.

Service to the engineering profession includes terms as president, vice president, and secretary-treasurer of the Louisiana Engineering Society; president of the Monroe Chapter of LES; and member of the Board of Direction of LES. He was also active on several committees for Region X of the American Society of Mechanical Engineers and was elected a Fellow of ASME in 1972.



Louisiana Engineering Society
Leta G. Bueto
Executive Director



1994 NSPE Annual Meeting

The Missouri Society of Professional Engineers will host the 1994 NSPE Annual Meeting July 9-16 at the Hyatt Regency Crown Center in Kansas City.

The Missouri Society has planned many activities for your enjoyment. A visit to the Midwest would not be complete without including Independence, Missouri, home of one of the most immortalized, fiery and colorful Presidents of our time, Harry S. Truman. Learn

about Missouri's "Number One Citizen", as the group tours Truman Library and Museum.

Other historic and technical tours are planned along with recreational activities. Practice Divisions and the Board of Directors will meet in conjunction with this meeting.

For additional meeting information, contact Wayne Kerns at (913) 339-3208. Hotel reservations may be made by calling the Hyatt Regency Crown Center toll free telephone number (800) 233-1234. *LE*

Louisiana State University and Louisiana Tech University Students Win 1993-94 Vincent A. Forte Graduate School Fellowships



JOHN CLAY LOYLESS, Louisiana State University, and **Todd M. Bauer**, Louisiana Tech University, are recipients of the Louisiana Engineering Foundation's 1993-94 Vincent A. Forte Graduate School Fellowships. The \$2000 Fellowships are presented annually to graduate students who express a sincere desire to enter the teaching profession at the university level.

Charles L. Eustis, P.E., President of the Louisiana Engineering Foundation, will make the presentations to Mr. Loyless and Mr. Bauer on June 17, 1994, at the Louisiana Engineering Society's annual meeting banquet, Ramada Inn, Alexandria, LA.

John Clay Loyless was born in Albany, Georgia, where he graduated as valedictorian of the 1975 Albany High School class. He earned a bachelor's degree in Civil Engineering, with highest honors, from Georgia Tech in 1980. Upon graduation Mr. Loyless was employed by Exxon Co., USA in Pensacola, Florida. There he rose to the rank of Senior Engineer managing the Eastern Division Corrosion Control Program for oil and gas facilities. In 1986 he became head of the Corrosion Design Staff for Florida Power and Light developing standards for both nuclear and fossil power plants. He moved to Louisiana in 1989 as Senior Chemical Engineer for Shell Oil Company where he was responsible for chemical and process operations. In 1993 he was awarded the Board of Regents Dean's Fellowship at Louisiana State University and resumed his academic career pursuing a PhD in Civil/Environmental Engineering.

Mr. Loyless was selected as one of two hundred students statewide to attend college as a high school student under the Georgia Governor's Honor program. He attended Wesleyan College in Macon, GA majoring in English. At Georgia Tech, Mr. Loyless was elected to the Phi Kappa Phi academic honor society. He also served as the ASCE representative to the undergraduate curriculum committee, was a student counselor, and participated in the co-op program working for the Georgia Department of Transportation. His professional affiliations include ASCE, National Association of Corrosion Engineers, and American Society for Metals.

Mr. Loyless is married to the former Diane Babin, who holds a bachelor's degree in Business from LSU. Diane is the Marketing

Support Representative for the Louisiana District of Xerox Corporation. They reside along with their two children, Melinda and David, in Kenner. They attend the St. Augustine Episcopal Church. Clay enjoys tennis and photography when time permits.

Clay is the son of Mr. and Mrs. P.E. Loyless of Albany, GA. Mr. Loyless, now deceased, was Manager of the Life and Casualty Department of Pace Insurance Company. Mrs. Loyless retired from an administrative position at Palmyra Park Hospital.

Clay's excellent academic record, his experience and creativity are in keeping with the high ideals of the Vincent A. Forte Fellowship. *LE*



TODD M. BAUER was born in Indianapolis, Indiana. He graduated from Caddo Parish Magnet High School in Shreveport. In 1993 he graduated from Louisiana Tech University with a bachelor's degree in Biomedical Engineering. In the fall of 1993, he began study in the PhD program at Tech in Biomedical Engineering.

Todd's father is a Certified Journeyman Toolmaker and is employed by AT&T in Shreveport. His mother is a Licensed Practical Nurse and is employed by Summitt Institute in Bossier City. Todd is engaged to Amy J. Perniciaro of Litcher. His hobbies include traveling and his free time is dedicated to competitive cycling, where he is a national contender. He attends St. Thomas Catholic Church in Ruston.

Todd is a rare individual. He has a keen interest in students and his desire to teach engineering make him an outstanding recipient of the Vincent A. Forte Fellowship.

The Louisiana Engineering Foundation is a tax exempt organization founded in 1978 by the Louisiana Engineering Society. Its goals are to provide opportunities to practicing engineering professionals for development programs; to provide fellowships to serve the educational needs of young men and women pursuing a career in engineering; and to maintain a Center to serve all engineers. The Foundation is headquartered at 1213 Nicholson Drive, Baton Rouge. *LE*

New Orleans Senior Engineers Meet Monthly

by: James S. Janssen, P.E.

A group of "senior" engineers in New Orleans (an off shoot of the New Orleans Chapter of LES) meet once a month for lunch. We gather in a dining room in a centrally located retirement apartment type facility, the New Orleanian, at 1205 St. Charles Avenue. Here we "meet, greet and eat" together and reminisce.

We have no charter or bylaws but follow LES rules and traditions. We do not have any strict membership requirements. We merely ask that members be retired, or about to be retired or should be retired. We have no dues but we do collect stamp money for the meeting notices occasionally as the treasury runs low. This arrangement gives us the opportunity, not only to talk about things we did together, but to discuss and keep up with engineering developments. Sometimes we have a speaker or one of us may have a "show and tell" about a hobby or a trip that he took recently. Most of us are retired but some still do part-time work or do consulting jobs.

We have derived much satisfaction from these informal meetings and suggest that other chapters of LES organize similar groups. Contact Jim Janssen at (504) 593-5359 in New Orleans if you desire additional information on the senior engineers meetings. *LE*

Notre Metier

Continued from page 13

Answers To

Test Your Knowledge of the Registration Law:

1. D 2. E 3. A 4. B 5. C 6. A 7. D 8. A 9. A 10. E

"LES FORUM"

Remember, the "LES Forum", a feature section of the *Louisiana Engineer*, is available for your comments on matters of interest to the profession. Comments should be brief, courteous, and timely, and will be edited by the Publications Committee for balance and pertinent content.

The *Louisiana Engineer* is published six times annually in February, April, June, August, October and December. Comments to the "Forum" should be mailed to the *Louisiana Engineer*, P.O. Box 2683, Baton Rouge, LA 70821, no later than the 10th of the month preceding the month of the publication.

SERVICES & SUPPLIERS

PIPE & LEAK LOCATING

- ✓ LEAKS UNDER SLAB FLOORS
- ✓ SEWER LINE MAPPING & PROFILING
- ✓ WATER & GAS SYSTEM LEAK SURVEYS

LEAK TECHNOLOGY
div. PRO-AM, INC.
3814 HWY 43 NORTH
PICAYUNE, MS 39466

FRANK ZIMBELMAN, PE
NEW ORLEANS
583-1857
(800) 673-5726

The Best People
The Best Equipment
For the Best Product!

We House A Complete
"Independent" Art Department

Ed's ep

**PRINTING
COMPANY, INC.**

925-0991
9366 Greenwell Springs Rd.
at Monterrey



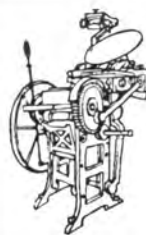
Water King



James E. Bowie, Jr., Ph.D., P.E.

Acadiana Treatment Systems
103 Charbonnet Road
Duson, Louisiana 70529
(318) 988-2360
Fax: (318) 981-7922

USL (318) 231-6846



FAX 355-2178

**PRINTING
INCORPORATED**

3019 PLANK ROAD (504) 357-5961
BATON ROUGE, LOUISIANA 70805

DRIVE SYSTEMS, INC.

5333 River Road New Orleans, LA 70123
(504) 733-8375 FAX (504) 733-0014



Programmable Controllers

- SHARK / AutoMate / Automax
- ReSource ScreenWare 2 graphics

Your local RELIANCE Variable Speed & Programmable Control Specialist

- RELIANCE A-C and D-C V'S Drives and Motors
- REEVES Mechanical Adjustable Speed Drives
- MASTER & DODGE Reducers and Gearmotors
- Electrical & Mechanical Parts

authorized stocking distributor
RELIANCE ELECTRIC

MECO

Sea Water Conversion Equipment
Pharmaceutical Distilling Plants
Marine Heat Exchangers and Pumps
Reverse Osmosis Systems

MECHANICAL EQUIPMENT COMPANY, INC.
861 CARONDELET STREET, NEW ORLEANS, LA 70130 U.S.A.

PHONE: (504) 523-7271
TELEFAX: (504) 525-4846

TELEX: 460165

PROFESSIONAL LISTINGS

WALDEMAR S. NELSON AND COMPANY

INCORPORATED
ENGINEERS AND ARCHITECTS

1200 ST. CHARLES AVENUE
NEW ORLEANS, LA 70130



TELEPHONE: (504) 523-5281
FACSIMILE: (504) 523-587
TELEX: 564351 NELBENQ

COMPLETE ENGINEERING AND PROJECT MANAGEMENT SERVICES
45 YEARS OF EXPERIENCE SERVING INDUSTRY

- | | |
|---|--|
| ☐ SITE PLANNING / PERMITTING | ☐ MONITORING / MODELING |
| ☐ CHEMICAL / PROCESS / PETROLEUM | ☐ MECHANICAL |
| ☐ CIVIL / STRUCTURAL | ☐ PIPELINE |
| ☐ ELECTRICAL / ELECTRONIC | ☐ MINING |
| ☐ ENVIRONMENTAL / SANITARY | ☐ HVAC |
| ☐ INSTRUMENTATION / CONTROLS | ☐ ARCHITECTURE |
| ☐ CONSTRUCTION MANAGEMENT | ☐ ASBESTOS |

Parsons Brinckerhoff

- Engineers
- Planners
- Designers
- Construction Managers

Urban Design • Highways/Civil • Bridges/Tunnels
Marine Facilities • Water Resources • Energy
Environmental Protection • Underground Facilities
Transit Systems/Transportation • Railroads
Mechanical/Electrical Systems • Agribusiness
One Lakeway Center • 3900 N. Causeway Blvd. • Suite 1460
Metairie, LA 70002 • (504) 830-0070 • (504) 830-0071 • FAX

BALAR

CONSULTING ENGINEERS



STEVEN W. BROWN, P.E.

BALAR ASSOCIATES, INC.
401 EDWARDS ST., SUITE 615
SHREVEPORT, LA. 71101
(318) 221-8312
FAX (318) 424-6506

- CIVIL
- STRUCTURAL
- ENVIRONMENTAL



SIMMONS J. BARRY & ASSOCIATES

A UTILITY OPERATORS, INC. COMPANY

CONSULTING ENGINEERS
AND PROFESSIONAL LAND SURVEYORS
FOR INDUSTRIAL, GOVERNMENTAL, AND COMMERCIAL CLIENTS

POST OFFICE BOX 1751 BUS 504-769-3400
BATON ROUGE, LOUISIANA 70821 FAX 504-769-3596

LOURIE CONSULTANTS

geotechnical and geoenvironmental
consulting services

...quality measured in the client's terms

3924 Haddon Street
Metairie, Louisiana 70002-3011
Tel: (504) 887-5531
Fax: (504) 888-1994

Roger D. Melancon, P.E.

GULF INDUSTRIES, INC.

SAFETY ENGINEERING

P.O. BOX 309 • MANDEVILLE, LA 70470-0309
(504) 892-6500 • FAX (504) 892-0707



MONTGOMERY WATSON

3501 N. Causeway Blvd.
Suite 300
Metairie, Louisiana
70002

Telephone: 504 835 4252
Fax: 504 835 8059

Serving the World's Environmental Needs

ERM-Southwest, Inc.
ENVIRONMENTAL
CONSULTING
ENGINEERS &
SCIENTISTS

ERM



ATCHLEY & ATCHLEY, INC.

Consulting Civil Engineers • Land Surveyors • Planners

412 La Salle Street
Shreveport, Louisiana 71107
318-222-5821
Ben D. Atchley Sr. P.E., P.L.S.
Ben D. Atchley Jr. P.E., P.L.S.



CORPORATE OFFICE
17170 PERKINS ROAD
BATON ROUGE, LA 70810
(504) 755-1000
FAX: (504) 751-2010

YOUR FULL SERVICE
ENVIRONMENTAL
CONSULTANT

LAMY J. CHOPIN, JR., P.E.

Engineered Solutions to Regulatory Issues

Baton Rouge • Lake Charles • Shreveport • Beaumont-Port Arthur



LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

Geotechnical Engineers

Engineering Consultation
Laboratory and Field Testing
Land and Marine Site Explorations

10555 Airline Highway Baton Rouge, LA 70816-4199
Telephone (504) 293-2460 Fax (504) 293-2463



ALLIANCE, INC.

Architecture • Engineering • Planning
Airport Consulting • Surveying

Petroleum Square, Suite 100 1324 North Hearne Avenue
Shreveport, LA 71107 FAX (318) 221-7635
Phone (318) 221-7501



WINK INC. COMPANIES

WINK ENGINEERING
W/E PROFESSIONAL SURVEYS

4949 Bullard Ave. • New Orleans, LA 70128-3147
Office: (504) 246-7924 Fax: (504) 246-8759

MEYER, MEYER LACROIX & HIXSON, INC.

Consulting Engineers & Land Surveyors

P. O. Drawer 5444
3666 Government St.
Alexandria, Louisiana 71301
Telephone (318) 448-0888

P. O. Drawer 1245
401 West Mississippi Ave.
Ruston, Louisiana 71270
Telephone (318) 255-7236

James L. Meyer, P.E., R.L.S. R. B. LaCroix, R.L.S.
Arthur E. Meyer, P.E., R.L.S. T. D. Hixson, P.E., R.L.S.

CONSULTING ENGINEERS

pyburn & odom, inc.

RIVER CROSSINGS • WATERFRONT STRUCTURES
HYDROGRAPHY • HIGHWAYS • INDUSTRIAL SITES
ENVIRONMENTAL STUDIES • SINCE 1948

8178 GSRI AVENUE • BATON ROUGE, LA 70820-7405 • (504) 766-6330



professional engineering consultants corporation

Consulting Engineers

1450 Seaboard Drive
Baton Rouge, La. 70810 (504) 769-2810

TQM Systems®

Making Quality a Reality

12382 Mollylea Drive
Baton Rouge, LA 70815-6616
Phone: 504-273-4972

M.M. "Mickey" Christensen, P.E.
President IQA Assessor # A003773

RPM ENGINEERING, INC.

A PROFESSIONAL ENGINEERING CORPORATION



9969 Professional Boulevard
Baton Rouge, LA 70809
(504) 292-9901



BROWN & BUTLER, INC.

Consulting Engineers and Land Surveyors

General Civil Engineering & Land Surveying

8335 KELWOOD AVE.-SUITE D PH. 504/924-0235
BATON ROUGE, LA 70806-4804 FAX: 504/926-1687



THE MEYER GROUP



Meyer and Associates, Inc.
Engineers • Planners
Vernon F. Meyer and Associates, Inc.
Surveyors
The Meyer Group, Inc.
Project & Construction Management

500 Cities Service Hwy. • P.O. Box 2149 • Sulphur, Louisiana 70664 • (318) 625-8353
5525 Mounes Street, Suite 102 • New Orleans, Louisiana 70123 • (504) 733-3770



SALMON & ASSOCIATES, INC.

Consulting Engineers serving the
Chemical, Petrochemical,
Petroleum and Metallurgical Industry

626 HIGHLANDIA
BATON ROUGE, LA 70810
(504) 752-7250

Office Ph. (504) 868-1050
N.O. Ph. (504) 586-8222
Home Ph. (504) 872-6003
FAX Ph. (504) 868-5843

T. BAKER SMITH & SON, INC.

CIVIL ENGINEERS & SURVEYORS
LAND - OFFSHORE - HYDROGRAPHIC
ENVIRONMENTAL RESEARCH

550 South Van Ave.
P.O. Box 2266
Houma, LA 70361

WM. CLIFFORD SMITH, P.E., L.S.
President



Quest Engineering & Development Corp.

Specializing In:

STRUCTURAL & EQUIPMENT DESIGN,
REDESIGN, FAILURE ANALYSIS, &
COMPUTER FEM SIMULATION.

7500 North Belt-Humble (Houston) TX. 77396

Call: SAM BROWN, Ph.D., P.E.

(713) 441-2525



WALK, HAYDEL & ASSOCIATES, INC.

Project Managers
Engineers
Construction Managers

600 Carondelet St. New Orleans, LA 70130
(504) 586-8111

Baton Rouge Mobile Little Rock



LaBauve and Company

CONSULTING ENGINEERS
CIVIL STRUCTURAL

3717 GOVERNMENT ST
ALEXANDRIA, LA 71302

318-445-8910



CSRS

CHENEVERT • SONGY • RODI • SODERBERG

An Engineering/Architectural Corporation

10725 Perkins Road, Suite 200 • Baton Rouge, LA 70810

Phone (504) 769-0546 • Fax (504) 767-0060

Norman J. Chenevert, AIA Michael B. Songy, P.E., P.L.S.
Ronald J. Rodi, P.E. Curtis D. Soderberg, AIA

COYLE ENGINEERING CO., INC.



CHARLES G. COYLE, P.E.

P.O. BOX 6177
BOSSIER CITY, LOUISIANA 71117-6177

3925 BENTON RD.
PHONE (318) 746-8987

DAVID VOLKERT & ASSOCIATES, INC.

ENGINEERS • ARCHITECTS • PLANNERS
3500 N. Causeway Blvd • Suite 1240
Metairie, LA 70002

(504) 837-6234 • FAX (504) 837-6237
Major offices in Metro Washington, D.C.
Mobile, AL • Tampa & Miami, FL

Office (504) 632-5596

Res. (504) 632-5646

J. W. P., INC.

J. Wayne Plaisance, Inc.

Civil Engineers • Land Surveyors

JOHN J. PLAISANCE, II
President

Post Office Drawer 730
Galliano, Louisiana 70354

Aillet, Fenner, Jolly & McClelland, Inc.

Consulting Civil & Structural Engineers

Robert R. Aillet, Robert D. Fenner, Leland H. Carter
Richard R. Aillet, Gary W. Fenner

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

1055 Louisiana Avenue
Shreveport, Louisiana 71101
AC 318 425-7452

MODJESKI AND MASTERS

CONSULTING ENGINEERS

Bridges • Highways • Structures
Mass Transit • Special Foundations
Reports Inspections Design
Inspection of Construction

1055 St. Charles Ave., New Orleans, La. 70130
(504) 524-4344

3645 Williams Boulevard
Suite 206
Kenner, LA 70065-3464
504 443 3437



Engineers, Architects
and Planners



♦ CONSULTING
♦ ENGINEERING
♦ PROCUREMENT
♦ CONSTRUCTION

100 YEARS OF ENGINEERED SOLUTIONS

MONROE JACKSONVILLE EDISON ATLANTA
318/323-9000 904/730-8400 908/287-7800 404/717-3830



ARCHITECTS ENGINEERS PLANNERS

Comprehensive Services in:

• Aviation • Construction Management
• Bridges and Structures • Environmental Services
• Civil Engineering • Transportation and Planning

HNTB CORPORATION
Catfish Town, Suite 200, 100 St. James Street
Baton Rouge, LA 70802 (504) 346-0006



Metallon, Inc.

Metallurgical Testing Laboratories

2524 Sutherland
Houston, Texas 77023
(713) 923-7761

Mechanical Testing
Specimen Machining

Chemical Analysis
Metallographic Evaluation



& ASSOCIATES, INCORPORATED
PROFESSIONAL ENGINEERS & LAND SURVEYORS

400 East Kaliste Saloom Road
Suite 1100
P.O. Box 52115
Lafayette, LA 70505-2115

(318) 232-5182
LA WATTS (800) 737-5182
FAX (318) 237-7132



SOUTHWESTERN LABORATORIES

ENGINEERING & ENVIRONMENTAL SERVICES

Louisiana Locations

SHREVEPORT • MONROE
BATON ROUGE • ALEXANDRIA



DEMOPULOS & FERGUSON, INC.

CONSULTING ENGINEERS
SINCE 1953

• ENGINEERS • ARCHITECTS • PLANNERS

401 Edwards - Suite 1600 - Shreveport, Louisiana 71101-5530 - (318) 221-7117
2603 Augusta - Suite 880 - Houston, Texas 77057-5638 - (713) 783-7117

BURK-KLEINPETER, INC.

ENGINEERS ARCHITECTS PLANNERS ENVIRONMENTAL SCIENTISTS

• CIVIL	• PLANNING	• ENVIRONMENTAL ASSESSMENT
• STRUCTURAL	• TRANSPORTATION PLANNING	• SOLID WASTE
• MECHANICAL	• ARCHITECTURE	• HAZARDOUS WASTE
• HIGHWAY	• LANDSCAPE ARCHITECTURE	• AIR QUALITY
• DRAINAGE		• CONSTRUCTION MANAGEMENT
• PORT / MARINE FACILITIES		

4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119
TEL 504 - 486 - 5901 FAX 504 - 486 - 1714



GERAGHTY & MILLER, INC. Environmental Services

2900 West Fork Drive, Suite 540
Baton Rouge, Louisiana 70827
(504) 292-1004
Offices Located Nationwide

AREA CODE 318
433-0561

D. W. JESSEN & ASSOCIATES
CIVIL & CONSULTING ENGINEERS

440 KIRBY ST.
LAKE CHARLES, LA
D. WALTER JESSEN, JR.

CDM environmental engineers, scientists,
planners, & management consultants

CAMP DRESSER & McKEE INC.

445 North Causeway Boulevard, Suite 600
Metairie, Louisiana 70002
504 832-7272

26 Third Street, Suite 200
Baton Rouge, Louisiana 70801
504 387-3822

offices nationwide



CONSULTING ENGINEERS
SERVING THE PETRO-
CHEMICAL AND OIL & GAS
INDUSTRIES

OFFICE (504) 835-2577
FAX (504) 837-5924

3330 WEST ESPLANADE AVE. • SUITE 300 • METAIRIE, LOUISIANA 70002



LANIER & ASSOCIATES
CONSULTING ENGINEERS, INC.

INDUSTRIAL • MARINE • ENVIRONMENTAL

NEW ORLEANS, LA

HOUSTON, TX

gregory c. rigamer & associates, inc.
professional consulting services

3230 W. Esplanade, Suite A
Metairie, LA 70002 (504) 836-6166

Michael W. Flores, P.E., P.L.S.
David C. Murla, P.E.
André DeHaan, P.E.
Gary Burt, P.L.S.



CIVIL ENGINEERS • PLANNERS • LAND SURVEYORS • CONSULTANTS

**PETROLEUM ENGINEERS
INTERNATIONAL, INC.**

Drilling Completion & Workover Programs
Office and Field Supervision
Property Management - Total Operations
Turnkey Operations
Reservoir Engineers
Industry Training Schools

P.O. Box 52588

Lafayette, Louisiana 70505

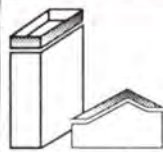
(318) 233-5346

WOODWARD-CLYDE CONSULTANTS
engineers • geologists • environmental scientists

Recognized leaders in:

- earth & environmental sciences & engineering
- geotechnical engineering
- waste management
- environmental regulatory issues & applications

2822 O'Neal Lane • Baton Rouge, LA 70816 • (504) 751-1873



Jim D. Koontz & Associates, Inc.

P. O. Box 1054

Hobbs, New Mexico 88240

Ph 505 392 7676

Fx 505 392 7602

Jim D. Koontz, P.E.
President



Cliff Knight, P.E.
A. J. McPhate, P.E.
Dan Boullion, P.E.

Areas of Expertise:

Mechanical Troubleshooting
Failure Analysis
Vibration Analysis/Rotor Dynamics
Machine Design
Computational Fluid Dynamics
Finite Element Analysis
Stress Analysis/Pipe Stress
Pressure Vessel/Heat Exchanger Design
Heat Transfer
Risk Assessment

8126 One Calais Ave., Suite 18 • Baton Rouge, LA 70809
Phone: 1-800-737-0591 • (504) 767-0591 • FAX (504) 766-5765



Environmental Consulting and Remediation

A Subsidiary of Osca, Inc.

12021 Lakeland Park Blvd., Suite 120

Baton Rouge, Louisiana 70806

Office: (504) 756-2555 Fax: (504) 756-2562



JONES AND NEUSE, INC.
Environmental and Engineering Services

Preliminary Planning
Engineering Design
Facilities Permitting
Construction Management
Process and Ambient
Monitoring

Regulatory Compliance
Hydrologic and Geotechnical
Investigations
Risk Assessments
Remediation and Field Services
Environmental Litigation

11924 COURSEY BLVD., STE. A
BATON ROUGE, LOUISIANA 70816
PHONE: (504) 291-3055
FAX: (504) 291-4801

EUSTIS ENGINEERING
GEOTECHNICAL ENGINEERS

CONSTRUCTION QUALITY CONTROL
AND MATERIALS TESTING
MONITORING WELL INSTALLATION
(504) 834-0157



3011 28TH STREET

METAIRIE, LA 70002

LINFIELD, HUNTER AND JUNIUS, INC.
ENGINEERS AND ARCHITECTS

651 RICHARD STREET
NEW ORLEANS, LA. 70130
(504) 581-1407

MOHR & ASSOCIATES, INC.
Consulting Civil Engineers & Land Surveyors

6025 Buncomb Road
Shreveport, Louisiana 71129
Telephone: 318/686-7190



JAMES D. MOHR
PROFESSIONAL ENGINEER
PROFESSIONAL LAND SURVEYOR

ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS

GULF SOUTH ENGINEERS, INC.
ENGINEERING CONSULTANTS

1700 GRAND CAILLOU RD
HOUMA, LA 70363
(504) 876-6380
FAX 876-0521

1000 LEONIDAS ST
NEW ORLEANS, LA 70178
(504) 866-1821
FAX 866-1781

MAHL AND ASSOCIATES, INC.
CONSULTING ENGINEERS

GEORGE J. MAHL, III, P.E.

800 HICKORY AVENUE, SUITE 100
HARAHAN, LOUISIANA 70123
(504) 737-8904
FAX (504) 738-7770



SERVING
CLIENTS
WORLDWIDE

Geotechnical/Materials Testing
Cone Penetrometer Testing
Environmental Consulting
Drilling, Monitor Wells
Marine Geosciences
Marine Surveys
LAKE CHARLES, LOUISIANA
(318) 439-1731

LA Lazenby & Associates, Inc.
CONSULTING ENGINEERS & LAND SURVEYORS

JERRY G. LAZENBY, P.E., P.L.S.
FOY B. GADBERRY, P.E.
PAUL D. FRYER, P.E.

2000 North 7th Street • P.O. Box 728 • West Monroe, LA 71291-0728 • 318/387-2710
FAX 318/387-2718



SOIL TESTING ENGINEERS

GEOTECHNICAL CONSULTANTS

GEOTECHNICAL
SOIL BORINGS
LABORATORY TESTS
ENGINEERING REPORTS

ENVIRONMENTAL
GEOHYDROLOGY
GROUNDWATER MONITORING
SUBSURFACE PROTECTION

QUALITY CONTROL
FILL INSPECTION
MATERIAL TESTING
FIELD LOAD TESTS

316 HIGHLANDIA DR.
4100 LOUISIANA AVE.
1350 LIVINGSTON LANE

BATON ROUGE, LA
LAKE CHARLES
JACKSON, MS

504-752-4790
318-474-1340
601-962-0748

**BADEAUX &
ASSOCIATES**

INCORPORATED
CONSULTING ENGINEERS
STRUCTURAL/CIVIL
115 EAST SIXTH STREET (504) 447-2317
P.O. BOX 1056 THIBODAUX, LA 70302

J. Alvin Badeaux, P.E.
President



Civil/Structural Engineers

2237 South Acadian Thruway, Suite 601
Baton Rouge, LA 70808
504-925-1161

MURPHY'S LAW APPLIED TO SURVEYING

Several years ago the general law delineating the behavior of inanimate objects established by Edsel Murphy came to my attention. Its very profundity was overwhelming at first, but further experience with the law has convinced me that it is the only law that is universally applicable. The contributions of Edsel Murphy's Law are not often fully appreciated and it is deemed that this is, in large part, due to the inherent simplicity of the law itself.

It is my intent to show that the Law of Murphy has produced numerous corollaries and it is hoped that by noting some examples, the reader may obtain a greater appreciation of Edsel Murphy, his law, and its ramifications in surveying.

As is well known to those versed in the state-of-art, Murphy's Law states, "If anything can go wrong, it will." Or to state its more exact mathematical form $1+1=2$, where $=$ is the mathematical symbol for hardly ever is."

To show the all-persuasive nature of Murphy's Law, I offer a small sample of its applications to surveying.

- No survey is repeatable.
- All constants are variable.
- In any given miscalculation, the fault will never be placed if more than one person is involved.
- Any error that can creep in will. It will be in the direction that will do the most damage.
- In any given computation the figure that is most obviously correct will be the source of error.
- In any given list of numbers there will be at least one with two digits transposed.
- During computation, Murphy's Law supersedes both the sine and cosine laws.
- A plat of a subdivision will have mistakes.
- Original drawings will be mangled by the copy machine.
- The contractor will show up and stand around watching just when you discover that there is a mistake in your work.
- The boss will show up just when you stop to take a break.
- A tripod will always be bumped during the measurement, not before, nor after.
- An instrument will not be discovered to be out of adjustment until the big survey is completed.
- The calculator battery will run down in the middle of a long involved chain computation.
- The distance meter battery will be discovered to be run down upon arrival at the most inaccessible point of the survey.
- The iron rod you have been digging for is always just one side of the hole.
- The rain starts after all equipment is out and the theodolite is set up and back sighted.
- A point of falling anywhere near water will be in the water.
- A just sharpened pencil point will break.
- Traffic will increase when you set up in the centerline of a street.
- If a stake is driven into the ground, a dozer will run over it.
- On a long sight someone out of hearing will stand in the line-of-sight.
- In any given COGO run, a card having a coding or keypunching error will produce the worst possible results on the plot such as great circles or figures reduced to a mass of irrelevant lines.

by: Elbert Basshan (reprint from the "Nova Scotian Surveyor", Spring/Summer 1990)

The Tate Family

You may have heard of the Tate Family. They're in every organization.

This is **DicTate** who wants to run everything. **RoTate** is always trying to change things. **AgiTate** stirs up trouble whenever possible with the help of **IrriTate** who is always there to lead a hand every time a new idea is suggested.

HesiTate and **VegeTate** are there to say they can't possibly work but are more than willing to watch every body else.

ImiTate just wants to copy other organizations and refuses to try anything new. **DevasTate** loves to be interruptive and **PotenTate** wants to be the bigshot.

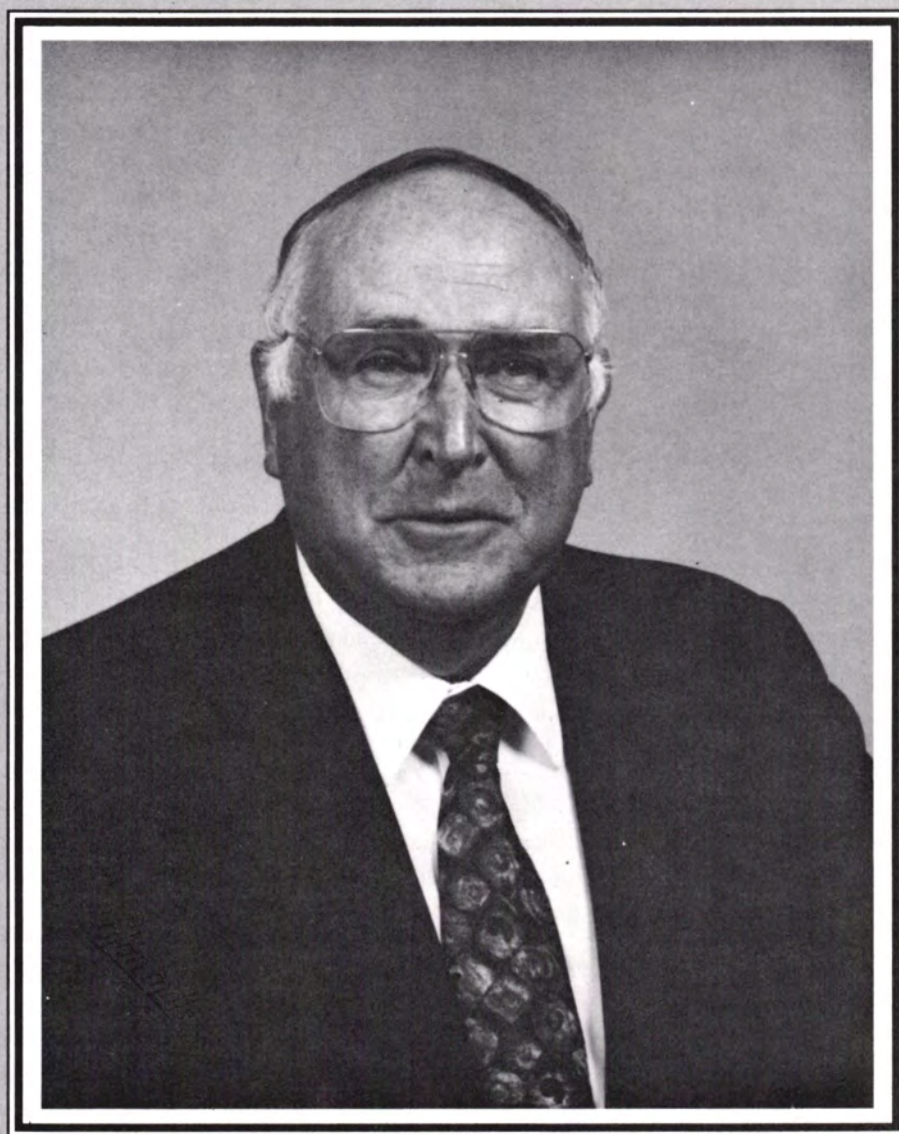
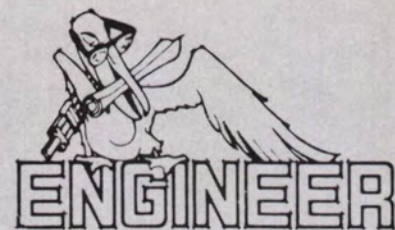
Thank goodness for **FaciliTate**, **CogiTate**, and **MediTate** who always save the day and get everyone pulling together.

Reprinted from April 1990 SAMSOG



AUGUST, 1994

LOUISIANA



JOE E. ROACH, P.E.

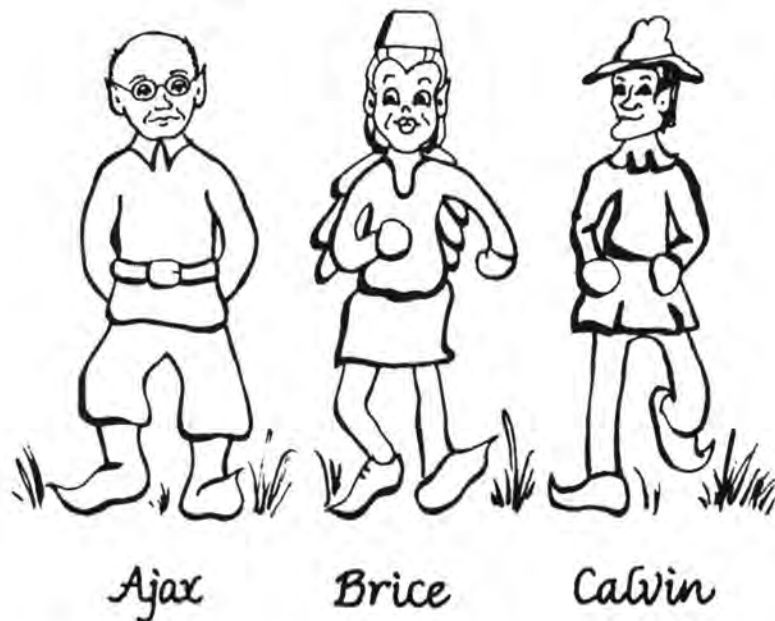
President

Consulting Engineers Council of Louisiana, Inc.

1994-95

On The Inside

- ◆ CEC/L Officers, Page 6
- ◆ Roster of Engineering and Surveying Societies, Page 18



Engineers are Versatile

Many people seem to think that professional engineers are only interested in or only have knowledge about their profession. This may occur because most engineers are sincerely interested in and do have considerable knowledge and skill in their profession. But the great majority do have outside interests and deep knowledge in outside affairs. Thus, we know of engineers who are fine artists or wood carvers, pianists or other musical artists, historians (some have written histories), sportsmen (golfers, tennis players, yachtsmen, etc.), authors of non-science or science studies (naturally), plus novels and short stories.

One example is James S. Janssen, a civil engineer of New Orleans. His first writings were engineering oriented and included articles in engineering or technical magazines. Some of these were gathered together to form "A Collection of Writings by James S. Janssen". His book "Building New Orleans, the Engineer's Role" is pure engineering as were his minor contributions to "Historic City Park - New Orleans".

When he and his wife Dorothy began to have children, then grandchildren and finally great grandchildren, Jim reduced some of the stories that he told them to writing. These were published in three volumes, "The Elves of Bellaire Drive", "Further Adventures of the Elves of Bellaire Drive" and "More Fun with the Elves of Bellaire Drive". These are collections of short stories dealing with the lives and adventures of three amicable, warmhearted pixies that live in a big hollow oak tree in the back yard of Little White Cottage on Bellaire Drive. Their names are Ajax, Brice and Calvin. They delight in helping the neighborhood children while remaining out of sight and emerge only at night time.

Few adults are aware of their existence as they never allow themselves to be seen. The enchanting, jaunty drawings that appear in each of the books were executed by Diane Hunn, the talented wife of an engineer. These three are a friendly, fun-loving group that get along well with the neighborhood dogs and with the fairies who fly over from City Park to visit them.

You will agree that this is strictly a non-engineering activity for a professional engineer.

August, 1994



About the Cover

Features Joe E. Roach, P.E.,
President of Consulting Engineers
Council of Louisiana, 1994-95.

In This Issue

Presidential Privilege	4
Guest Forum	5
The Spec Sheet	6
LES Executive Committee and Deans Meet	10
Calendar of Events	10
Notre Metier	11
State Legislative Bulletin	12
Washington Bulletin	13
Engineers in Government	15
LES Forum	16
The Society Reports	17
Roster of Engineering and Surveying Societies	18
New Registrants of the State Board	19

(Please note: Receipt of Louisiana Engineer Magazine does not necessarily mean that you are registered with the Louisiana State Board of Registration for Professional Engineers and Land Surveyors, or that you are a member of the Louisiana Engineering Society.)



STATE OF LOUISIANA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

1055 ST. CHARLES AVE., SUITE 415
NEW ORLEANS, LA 70130-3997
(504) 568-8450
FAX - 568-8256

Office Hours
Monday thru Friday
8:00 am until 4:00 pm

Chairman
Larry A. McKee, P.E./P.L.S.

Vice Chairman
Morris P. Hebert, P.L.S.

Secretary
Charles L. McDonald, P.L.S.

Other Members
Randall F. Barron, P.E.
Coan J. Bueche, P.E./P.L.S.
Jorge M. Ferrer, P.E.
Vernon F. Meyer, P.E./P.L.S.
Richard M. Primeaux, P.E./P.L.S.
Richard E. Ruckstuhl, P.E./P.L.S.
Sam L. Sullivan, Jr., P.E.
William J. Thevenote, Jr., P.E.

Executive Secretary
Paul L. Landry, P.E.

PUBLICATIONS COMMITTEE

Chairman
Allison J. P. Launey, P.E.
Managing Editor
Leta G. Bueto
Publishing Consultant
Printing Incorporated



LOUISIANA ENGINEERING SOCIETY
P.O. BOX 2683, BATON ROUGE, LA 70821 TELEPHONE (504) 344-4318
STREET ADDRESS: 1213 NICHOLSON DR., BATON ROUGE, LA

LES OFFICERS AND BOARD

President
Edgar P. Benoit, P.E.

First Vice President
Carl A. Jakob, P.E.

Second Vice President
Robert A. Brossette, P.E.

Secretary-Treasurer
Ronald J. Rodi, P.E.

NSPE DIRECTORS
James L. Meyer, P.E.
Edgar P. Benoit, P.E.

STATE DIRECTORS
John J. Plaisance, II, P.E.
Ann Forte Trappey, P.E.
James N. Moore, P.E.
Theodore H. Thompson, P.E.

PAST PRESIDENT
Dale T. Hunn, P.E.

CHAPTER PRESIDENTS
Alexandria
Donald W. Clayton, P.E.

Baton Rouge
Steve M. Boudreaux, P.E.

Bayou
Kenneth W. Smith, P.E.

Lafayette
Susan H. Richard, P.E.

Lake Charles
Ronald J. Dupont, P.E.

Monroe
John H. Eason, P.E.

New Orleans
Lonnie G. Bassett, P.E.

Shreveport
Ruth L. Baker, P.E.

PRACTICE DIVISIONS
Construction
Roger D. Melancon, P.E.

Education
Bobby E. Price, Ph.D., P.E.

Government
Christopher D. Abadie, P.E.

Industry
Harold P. LeRay, P.E.

Private Practice
Foy B. Gadberry, P.E.

COMMITTEE CHAIRPERSONS

Constitution and Bylaws
Frederick J. Trahan, P.E.

Engineering Education
R.J. Yakupzack, P.E.

Young Engineers
Angela L. DeSoto, E.I.T.

Ethics and Professional Conduct
Foy B. Gadberry, P.E.

Honors and Awards
Glynn P. Gautreau, P.E.

Inter-Society Relations
John S. Bruce, P.E.

Legislative
Raymond G. Areaux, P.E.

Membership
Theodore H. Thompson, P.E.

Public Relations
John J. Plaisance, II, P.E.

Scholarship
Keith M. Warden, E.I.T.

Long-Range Planning
Robert A. Brossette, P.E.

Liaison Committee/State Board of
Registration
James L. Meyer, P.E.

Louisiana Engineering Foundation
Charles L. Eustis, P.E.

EXECUTIVE DIRECTOR
Leta G. Bueto

The LOUISIANA ENGINEER is the official publication of the Louisiana Engineering Society. The LOUISIANA ENGINEER is the journal of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors. The magazine is published in February, April, June, August, October and December. Subscription \$2.17 per year for engineers registered in Louisiana and non-registered members of the Louisiana Engineering Society. Two dollars of each LES member's annual dues is set aside for six issues of the LOUISIANA ENGINEER. Second class postage paid at Baton Rouge, La. The Louisiana Engineering Society and the Louisiana State Board of Registration for Professional Engineers and Land Surveyors do not guarantee the accuracy of statements made or necessarily concur with opinions expressed in this publication. ISSN: (0024-6794)

POSTMASTER: Please send Change of Address Forms to LOUISIANA ENGINEERING SOCIETY, P. O. Box 2683, Baton Rouge, La. 70821. Telephone 504/344-4318, FAX 504/344-4319; 1213 Nicholson Drive, Baton Rouge, La.



Edgar P. Benoit, P.E.
President
Louisiana Engineering
Society

Presidential Privilege



NSPE Reorganization — Yes / No / Who Cares?

In July the National Society of Professional Engineers (NSPE) Board of Directors received a report which called for a reorganization of NSPE "to increase the value of membership". If I gave a copy of the report to a group of fellow engineers a few may approve the recommendations of the report and a few may have some modifications. Some may even say, "Who cares!" I write this for those members that do care about the engineering profession and the society which represents it. The group that does not care, nevertheless, is the very reason NSPE needs a reorganization and revitalization.

The task force report began with the new focus of NSPE on its Mission, which narrows on the licensed practice of engineering. "The organization must now make the necessary adjustments to better serve Professional Engineers in meeting their responsibilities to the public, their clients, their employers, those who aspire to be licensed professional engineers and others." The group began with a clean slate and no "sacred cows."

"The mission of NSPE is to promote the ethical, competent, and licensed practice of engineering, and to enhance the professional, social, and economic well being of its members."

Some highlights of the plan are as follows:

- Lower NSPE dues.
- Core and expanded NSPE services aim at target markets.
- Increased regional activity and authority.
- Expansion of current six regions to ten. (The new plan would group Louisiana, Texas and New Mexico.)
- Reduction of duplication of programs at NSPE.
- Less autonomy for Practice Divisions. (PEPP, PEI, PEC, PEE, PEG)
- Optional chapter, state, national memberships.

A complete copy can be reviewed and comments sent to me and/or directly to the NSPE Reorganization Task Force at (703) 836-4875. Each chapter president, state officer and LES headquarters has a copy of the report. You are encourage to read the entire report.

NSPE plans to receive feedback and discuss details at the January Leadership Forum in Houston. A decision is anticipated at the July 1995 NSPE Board Meeting.

Updating How LES Does Business

The Louisiana Engineering Society is approaching its 100th birthday. The same forces that are driving NSPE to reorganize are forcing LES to look at how it conducts business. A complete state reorganization should best wait to see how the national organization develops, however, some improvements can begin immediately to improve efficiency and make membership more valuable.

Our 100th birthday is fast approaching in 1998. Ronald J. Rodi, P.E., will begin the task of planning for this event. He is beginning to collect ideas, committee members, and paraphernalia from LES' past. You can contact him at:

Ronald J. Rodi, P.E.
5280 S. Belvedere Drive
Baton Rouge, LA 70808

Someone at our last state meeting suggested that we eliminate all standing committees. We are not ready to get rid of committees, but would like to change their functions. The new functions of committees will be project administration. They would be a source of a project conception, appointment of a project manager and monitoring the progress. Teleconferencing can work well for this function. The project manager will have the autonomy to complete the project. If a group is needed to complete the project, consideration should be given to all members of the group coming from the same chapter.

Have a project idea and desire to aid your professional engineering society by doing a project in your area of interest, give me a call at (504) 291-3060.

We have many members of our Society that would like to devote a small part of their time to the profession. We will clear the bureaucracy for these types of projects and get them done. *LE*

Guest Forum



Joe E. Roach, P.E.
1994-95 President
Consulting Engineers
Council of Louisiana

It is truly a privilege and honor to serve the Consulting Engineers Council of Louisiana (CEC/L) as president this year. I look forward to working with the new Board of Governors in continuing the activities initiated under the leadership of our past president, Jim Poché, and to deal with those issues and concerns of our membership.

Unlike most professional and technical societies and organizations, CEC/L consists of member firms, not individual professional engineers. Although very concerned with the technical aspects of our profession, CEC/L gives special emphasis to maintaining and improving the high standards by which consulting engineering firms provide services to clients. As we look to the coming year, several key areas illustrate how we may better achieve our goals.

Strategic Plan

The CEC/L initiated strategic planning two years ago under the direction of Morgan Watson, fulfilling a much needed effort of defining objectives and goals for our organization. The Strategic Plan has since been updated and refined by the Planning Committee to keep it current and maintain the 5-year planning period. A document such as this must be flexible and adaptable to changing needs and conditions required of a working plan.

Several phases of the plan have already been implemented. The CEC/L newsletter, "The Pipeline", was completely reformatted to make it a more interesting and readable document. The articles that appear in the CEC/L section of the *Louisiana Engineer* magazine will likewise be presented in a lighter and again more readable format. We've even incorporated an engineering related cartoon in one article, and have used the Looney Tunes character, Marvin the Martian, on others. Our legislative and membership efforts have been intensified and will continue to be a significant part of our activities during the coming year.

Partnering

Our national organization, the American Consulting Engineers Council (ACEC), has been active in promoting partnering in the work place; partnering agreements have been suggested between architects and engineers, between clients and the design team, and between the construction team and the design team. These agreements should help to promote a better line of communication and understanding among the various groups involved.

At the organization level, ACEC has signed partnering agreements with the Associated General Contractors, the U.S. Army Corps of Engineers, and the National Society of Professional Engineers. I hope to continue the efforts that Past President Poché initiated in creating a more cooperative relationship with other pro-

fessional and technical organizations as well as the state agencies with which we are involved. This communication must be maintained if we are to effectively work toward common goals and to interact with each other in a positive manner in areas of mutual interest and concern.

Membership

Just how does increasing the membership of CEC/L and sustaining those members improve public safety and welfare? The answer lies in the mission statement adopted in our Strategic Plan and it deserves repeating: "The mission of the Consulting Engineers Council of Louisiana is to assist member firms in achieving a higher professional, ethical, and business image, thus enabling them to better provide quality engineering services in the interest of their clients and the public". New member firms bring new ideas, challenges, concerns, and hopefully, new and better solutions to problems and greater cooperation within the engineering community. Engineering is a rapidly changing profession and we cannot be complacent in our efforts to remain an organization that addresses current issues and concerns of members as well as our clients.

Our Strategic Plan suggests membership goals that can only be reached by the involvement of all member firms. As we attempt to enlist a new member firm, a basic but very important question must be answered; "What can the CEC/L do for me and my firm? From personal experience, it can sometimes be difficult to address this question in real and tangible terms. It's rather easy to say, "You get out of ACEC and CEC/L benefits directly proportional to what you put into them". Even though this statement is basically true, we must be prepared to give examples of how that may be achieved.

Besides serving on the local chapter and state board levels, an excellent opportunity for involvement is to serve on an active committee. Members can direct their energies towards areas of specific interest to themselves and their firms. We have a number of members who serve on national committees and without exception, they speak enthusiastically about the various activities in which they are involved.

Conclusion

Finally, I want to sincerely thank Jim Poché for an outstanding job as past president and especially for his filling in for me during these past several weeks while I recovered from surgery. Warren Wilder, our Executive Director, has also been very willing to assist me during this interim period. The entire Board of Governors has served conscientiously in handling the tasks before it during the past year. Morgan Watson has completed his year as National Director and represented us well at the fall meeting in October and the annual meeting this past May.

We cannot lose sight of the mission statement indicated above. I solicit the assistance of every member to help CEC/L achieve the challenging goals of our Strategic Plan through a unified effort in promoting quality in the services we provide our clients while maintaining a high level of professional integrity. *LE*

Consulting Engineers Council of Louisiana, Inc. Proudly Presents the 1994-1995 Board of Governors



PRESIDENT
Joe E. Roach, P.E.
BaLaR Associates, Inc.
Shreveport, La.



PRESIDENT-ELECT
Frank Nicoladis, P.E.
N-Y Associates, Inc.
Metairie, La.



VICE PRESIDENT
Jerry G. Lazenby, P.E.
Lazenby & Associates, Inc.
West Monroe, La.



TREASURER
F. Bren Kramer, P.E.
Marrero, Couvillon & Associates, Inc.
Baton Rouge, La.



SECRETARY
Donald W. Clayton, P.E.
Ballard & Associates, Inc.
Alexandria, La.



NATIONAL DIRECTOR
James M. Poche, P.E.
Poche Associates, Ltd.
Lafayette, La.



MEMBER-AT-LARGE
Robert A. Basinger, P.E.
BBC Engineering, Inc.
Shreveport, La.



MEMBER-AT-LARGE
Arthur E. Meyer, Jr., P.E.
Meyer, Meyer, LaCroix & Hixson, Inc.
Alexandria, La.



MEMBER-AT-LARGE
Vincent C. Provenza, P.E.
URS Consultants, Inc.
Metairie, La.



MEMBER-AT-LARGE
Donald L. Richard, P.E.
Domingue, Szabo & Associates, Inc.
Lafayette, La.



MEMBER-AT-LARGE
Gasper A. Chifici, P.E.
Camp, Dresser, & McKee
Baton Rouge, La.



MEMBER-AT-LARGE
Thomas A. Stephens, P.E.
Stephens Engineering
Baton Rouge, La.



MEMBER-AT-LARGE
Russell J. Ponder, P.E.
Walk, Haydel & Associates, Inc.
New Orleans, La.



BATON ROUGE CHAPTER PRESIDENT
Michael G. Bruce, P.E.
ABMB Engineers, Inc.
Baton Rouge, La.



NEW ORLEANS CHAPTER PRESIDENT
Rahman Bhatti, P.E.
Rahman and Associates, Inc.
Metairie, La.



LAFAYETTE CHAPTER PRESIDENT
Calvin Courville, P.E.
Domingue, Szabo & Associates, Inc.
Lafayette, La.



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



SHREVEPORT CHAPTER PRESIDENT
James D. Mohr, P.E.
Mohr & Associates, Inc.
Shreveport, La.

Joe E. Roach, P.E. - A Profile

Joe E. Roach, P.E., Shreveport, has assumed the office of President and will lead Consulting Engineers Council of Louisiana this current administrative year. He has served several years on the Board of Governors as President-Elect, Vice President, Treasurer, Secretary, two years as Member-at-Large, and two years as Shreveport Chapter President. He is Vice President of BaLaR Associates, Inc., a Shreveport, Louisiana based consulting engineering firm offering general civil engineering services including structural and sanitary engineering. Roach majored in Geology for two years at Centenary College, Shreveport, then transferred to Louisiana State University where he was graduated in 1961 with a Bachelor of Science Degree in Civil Engineering. He is a Registered Professional Engineer in Louisiana, Arkansas, and Texas and has been practicing civil engineering since 1960. After graduation, his experience background included the United States Corps of Engineers and the American Oil Company prior to joining J.S. Boyd and Associates, Consulting Engineers in 1962. J.S. Boyd and Associates was later reorganized as BaLaR Associates, Inc. in 1968, and at that time he became a partner in the firm. His specialties include structural design, water and sanitary sewerage facilities design, and paving and drainage design. He is a Registered Land Surveyor in the State of Louisiana and is a member of the American Society of Civil Engineers, the Louisiana Engineering Society, the National Society of Professional Engineers, the Professional Engineers in Private Practice, the American Waterworks Association, the Water Pollution Control Federation, Construction Specifications Institute, and the Louisiana Conference on Water Supply and Sewerage and Industrial Waste. He continues to serve as one of the two Louisiana representatives on the ACEC/EPA Region 6 Liaison Committee. Roach and his wife, Bea, have three children.

Last year as President-Elect, Roach headed the CEC/L Planning Committee which was responsible for adding another year to the organization's Long Range and Strategic Plan. Says Warren J. Wilder, CEC/L Executive Director, "Joe Roach worked his committee hard. He believes in a concise, yet simple, long range plan for the Council which maps out the general direction in which the organization will go for the next several years. He does not sidestep issues and is not afraid to take on a situation if a positive resolution bene-

fits the profession and the members of CEC/L. Joe has a strong board behind him that is very willing to work with him. CEC/L is bound to continue forward with such capable leadership."

Biographical Sketches of the Board Members

Frank Nicoladis, P.E., was elected to the CEC/L Board of Governors to serve as President-Elect. He has served on the board as Secretary, Treasurer, Vice President and New Orleans Chapter President. Nicoladis is a licensed engineer in Louisiana, Florida, Mississippi, Texas, and Arkansas, and is a licensed surveyor in Louisiana. He is president of N-Y Associates, Inc., Metairie, LA, a consulting firm providing services in civil, electrical, mechanical, and structural engineering, architecture, planning and surveying. He is a member of the Water Environment Federation, American Waterworks Association, American Public Works Association, Louisiana Engineering Society, National Society of Professional Engineers, American Planning Association, and the American Society of Consulting Planners. Nicoladis has served on the Board of Directors of the Society of American Military Engineers (1988-1994), First Vice President (1992-1993) and Vice President (1993-1994) of the Louisiana Post of SAME. In 1992-1993, he was a member of the SAME's Senior Executive Group, was the 1990-1991 President of the New Orleans Branch of ASCE, and served on the Board of Directors of the Louisiana Section of ASCE, 1991-1994. A 1957 graduate of Mississippi State University with a B.S. in Civil Engineering, Nicoladis is married to the former Peggy Yemelos, and they have three children. He is listed in *Who's Who in Engineering*.

Jerry G. Lazenby, P.E., was recently elected to the office of Vice President of CEC/L. He has served on the board as Treasurer, Secretary and Member-at-Large for the past three years. Lazenby is a 1965 graduate of Louisiana Tech University with a Bachelor of Science Degree in Civil Engineering. He is President of Lazenby & Associates, Inc., a West Monroe, Louisiana consulting firm offering civil engineering and land surveying services. He is Past Chairman, PEPP Division of the Louisiana Engineering Society, Past Chairman of the Monroe Chapter of LES, Past President of the Monroe/West Monroe Chapter of CEC/L, and holds membership in the Louisiana Engineering Society, National Society of Professional Engineers, Louisiana Society of Professional Surveyors, American Society of Civil Engineers, Institute of Transportation Engineers, and the Water Environment Federation. Lazenby is the 1993 recipient of the Charles M. Kerr Public Relations Award of the Louisiana Engineering Society, and is the 1994 recipient of that organization's Andrew M. Lockett Civic Activities Award. Lazenby is Vice President of the West Monroe Rotary Club, and is active in the Government Affairs Division of the West Monroe-West Quachita Chamber of Commerce. He and his wife, the former Christine Wilson, have two sons and a daughter.

F. Bren Kramer, P.E., was recently elected Treasurer of CEC/L after serving last year as Secretary, two terms as a Member-at-Large and one as Baton Rouge Chapter President. He was graduated from Louisiana State University with a Bachelor of Science Degree in

Electrical Engineering in 1963, and with a Master's Degree in Electrical Engineering in 1965. A member of the Louisiana Engineering Society, Kramer is licensed to practice engineering in Louisiana, Mississippi, Texas, and Maryland. He is Director of Project Management with Marrero, Couvillon & Associates, Inc., a Baton Rouge firm with branch offices in New Orleans and Lafayette providing a full complement of electrical engineering services for investigations, planning, studies, design and troubleshooting of electrical power generation and distribution systems, electronic controls and communication systems. He is married to the former Susan Curtis, and they have three children.

Donald W. Clayton, P.E., was elected to the office of Secretary, having served two years as a CEC/L Member-at-Large after completing a three year stint as Alexandria Chapter President. He is Executive Vice President of Ballard & Associates, Inc., an Alexandria, Louisiana consulting firm providing services in civil and mechanical engineering, surveying, construction management, laboratory analysis, structural engineering and building design. Licensed to practice in Louisiana, Georgia, and Oklahoma, Clayton was graduated from Georgia Tech in 1973 with a Bachelor of Science Degree in Civil Engineering. He is a member of the Louisiana Engineering Society, the National Society of Professional Engineers and the American Society of Civil Engineers. He is married to the former Kathryn Byrd, and they have two children.

James M. Poché, P.E., Lafayette, is serving this year as CEC/L's National Director, representing the organization at the ACEC Fall Conference and 1995 Annual Convention Board of Directors meetings. This comes after several years of meaningful service on the CEC/L Board of Governors as last year's President, President-Elect, Vice President, Treasurer, Secretary, two years as Member-at-Large, and three years as Lafayette Chapter President. He received his Bachelor of Science Degree in Mechanical Engineering in 1970 from the University of Southwestern Louisiana, Lafayette. Poché is President of Poché Associates, Ltd., a Lafayette consulting engineering firm which provides services in energy management and mechanical and electrical engineering for private and public residential, commercial, educational, institutional and industrial buildings and complexes. He is also affiliated with the American Society of Heating, Refrigerating, and Air Conditioning Engineers, the Association of Energy Engineers, the Louisiana Engineering Society, the National Society of Professional Engineers, and the Louisiana Architects Association (AIA Louisiana). Poché is on the Board of Directors of the Lafayette Chamber of Commerce, was United Givers Fund Section Chairman, and is an active member of the American Consulting Engineers Council's Energy Committee. Nine years ago, he served as Chairman of the Louisiana Engineers Selection Board, a committee empowered to award state agency design contracts to engineering firms. He is married to the former Linda DeRousselle, and they have two grown children.

Robert A. Basinger, P.E., was re-elected CEC/L Member-at-Large after having served on the board for two consecutive years as Shreveport Chapter President. He is President of BBC Engineering, Inc., a Shreveport based firm providing civil engineering services, land planning, and land surveying. Basinger was graduated from Louisiana Tech University in 1970 with a Bachelor of Science Degree in Civil Engineering and is licensed to practice in Louisiana and Texas. He is a member of the Louisiana Engineering Society and the Shreveport Chapter of ASCE. He is married to the former Marcia Dolin, and they have three children including a married son who is attending dental school. Basinger is a member of Springs of Grace

Baptist Church where he is an ordained deacon and teaches an adult Sunday School class. He enjoys church activities and sports of all kinds with his wife and children. He serves on the Municipal Relations Committee, a CEC/L Shreveport Chapter task force for the Mayor regarding the structure of the Department of Public Works and Water & Sewerage. He is also a member of the Shreveport Chamber of Commerce, Greater Shreveport Economic Development Foundation, Downtown Shreveport Unlimited and Bossier Chamber. Basinger serves on the Board of Directors as Treasurer of the Shreveport/Bossier Rescue Mission, and is actively participating on the Louisiana Tech Civil Engineering Alumni Reunion Committee.

Gasper A. Chifici, P.E., has been elected Member-at-Large after having served on the Board of Governors last year as President of the Baton Rouge Chapter. Licensed to practice in Louisiana, Chifici was graduated from Louisiana State University in 1973 with a Bachelor of Science Degree in Civil Engineering. He is an associate of Camp Dresser & McKee, Inc., a Baton Rouge, Louisiana branch office of CDM, Cambridge, Massachusetts, a consulting firm providing services in civil and environmental engineering. Chifici maintains active memberships in the Louisiana Engineering Society, the American Society of Civil Engineers, the American Water Works Association, and the American Public Works Association. He is Vice Chairman of the UNO Civil Engineering Advisory Board and serves as a representative of the American Consulting Engineers Council on the Engineers Joint Contract Documents Committee. Chifici is married to the former Denise Trahan, and they have two daughters, Amy, 19, and Ellen, 17.

Arthur E. Meyer, Jr., P.E., has been elected Member-at-Large and continues to serve on the Board of Governors. Meyer is Secretary-Treasurer and Civil Division Director of Meyer, Meyer, LaCroix & Hixson, Inc., Consulting Engineers and Land Surveyors, Alexandria, Louisiana. He received his Bachelor of Science Degree in Civil Engineering from Louisiana Polytechnic Institute in 1956 and served as a Civil Engineering Officer in the United States Air Force in the 1950s. Meyer is a Registered Professional Civil Engineer in Louisiana and Texas and is a Louisiana Registered Land Surveyor. He is also a certified fallout shelter analyst. He has served on the CEC/L Board of Governors as President of the Alexandria Chapter, Member-at-Large, Secretary, Treasurer, Vice President, President-Elect, President in 1987-1988 and National Director. He has served on several important committees during those years including Ways & Means Committee (chairman), the Legislative Committee, Rule 1 Ad Hoc Committee, the Joint Professional Societies (CEC/L-LES-ASCE) Committee and the CEC/L Transportation Committee. He is a member of the National Society of Professional Engineers and the Louisiana Engineering Society (Past President of the Alexandria Chapter). Meyer is Past State Chairman of the Louisiana Engineering Society's Engineers in Private Practice Division and LES/PEPP Water Determination Committee and is active in the American Society of Civil Engineers. He is a past member of the NSPE Construction Grants & Loan Committee and served on the Budget Finance Committee of the American Consulting Engineers Council in 1984 and 1986. He is a professional member of the Construction Specifications Institute, associate member of the Society of American Military Engineers, and a member of the Louisiana Airport Manager's Association. He is certified to perform value analyses of engineering projects. Meyer is a member of the Central Louisiana Chamber of Commerce. He is chairman of the Streets & Highways Committee and is past chairman of the Chamber's Aviation Committee. He is a member of the Alexandria Exchange Club (board

member 1987-1989) and the Alexandria Golf & Country Club (president, 1980 and 1981). He was honored as the 1987 Executive of the Year by the LaPine Chapter of Professional Secretaries International. He is a licensed active private pilot. Meyer and his wife, the former Karen K. Burnaman, have five children.

Russell J. Ponder, P.E., was elected to serve on the Board of Governors as Member-at-Large. He is currently serving as Vice President of the CEC/L New Orleans Chapter, having served as its Secretary last year. Licensed to practice in Louisiana and Arizona, Ponder is a 1970 graduate of Louisiana Tech University with a Bachelor of Science Degree in Civil Engineering. He began his career as a construction engineer with Gulf Oil Co.- Alliance Refinery. He has been with Walk, Haydel & Associates, Inc., New Orleans, for the past 20 years, currently as Senior Project Manager. He has held other positions as Design Engineer, Project Engineer, Department Head - Civil Engineering, and Director, Architectural Division. The New Orleans based Walk, Haydel & Associates is a multi-discipline engineering/architectural and Project Management firm serving industrial, commercial, institutional clients and government with branch offices in Baton Rouge, Lake Charles, Mobile, Alabama and Little Rock, Arkansas. He holds memberships in the Louisiana Engineering Society, National Society of Professional Engineers, and the American Society of Civil Engineers. A single parent, Ponder has four sons: Chris, Scott, Jamie, and Ryan.

Vincent C. Provenza, P.E., was re-elected to serve on the Board of Governors as Member-at-Large, having represented the New Orleans Chapter as its President three years ago. He has also served as the Chapter's Vice President, Secretary and Treasurer. Provenza is Vice President and New Orleans Branch Manager of URS Consultants, Inc., a Metairie design firm offering services in regional water supplies, flood control and drainage facilities, streets and highways, railroads, port facilities bridges, airports, and environmental permitting risk assessment, audits and design including hazardous and solid waste. He was graduated from Tulane University in 1971 with a B.S. in Chemical Engineering, and he is licensed to practice in Louisiana and Texas. Provenza is a member of the Louisiana Engineering Society and the Water Environment Federation. He is Past Chairman of East Jefferson Chamber Transportation Committee, a member of the Louisiana Wildlife Federation, Friends of City Park, and the Jefferson Performing Arts Society. He is married to the former Sheila Tubre, and they have two daughters, Kristen and Kerri.

Donald L. Richard, P.E., was re-elected Member-at-Large after serving a two year stint as Lafayette Chapter President. A graduate of the University of Southwestern Louisiana, he is President and CEO of Domingue, Szabo & Associates, Inc., a Lafayette consulting firm providing services in civil, structural, and environmental engineering including drainage, water supply, sewerage, water and wastewater treatment, land surveying and development. He is a member of the American Society of Civil Engineers, the Louisiana Engineering Society, the Louisiana Society of Professional Surveyors, the Society of American Military Engineers, the National Society of Professional Engineers, and the Professional Engineers in Private Practice. Richard is married to the former Maxine Easley, and they have five children and an equal number of grandchildren.

Thomas A. Stephens, P.E., Baton Rouge, Louisiana, was re-elected Member-at-Large of CEC/L after serving as the Baton Rouge Chapter President. He is owner of Stephens Engineering, a consulting firm providing services in civil and structural engineering and land surveying for flood control and land planning, transportation and industrial development. Stephens was graduated from

Louisiana State University in 1977 with a Bachelor of Science Degree in Civil Engineering. A licensed professional in the states of Louisiana, Mississippi, and Georgia, he is a member of the Louisiana Engineering Society, the National Society of Professional Engineers, and the American Society of Civil Engineers. He is Chapter President of Tau Beta Pi Honor Society, a member of Chi Epsilon Honor Society, and serves as the CEC/L representative on the East Baton Rouge Department of Public Works Subdivision Regulation Review Committee. Stephens is married to the former Karen Lynch, and they have three children, ages 6, 8, and 11.

James D. Mohr, P.E., was recently elected President of the Shreveport Chapter and serves on the Board of Governors in that representative capacity. He is President of Mohr and Associates, Inc., a Shreveport civil engineering and land surveying consulting firm. He received a B.S. in Mathematics from Centenary College in 1952 and a B.S. in Civil Engineering in 1955 from Louisiana Tech, and he is licensed to practice in Louisiana and Texas. Mohr holds memberships in the Louisiana Engineering Society, National Society of Professional Engineers, American Society of Civil Engineers, Louisiana Society of Professional Surveyors, American Water Works Association, Construction Specifications Institute, and the Homebuilders Association of Shreveport-Bossier, serving on that organization's Board of Directors for 10 years, and was named Associate of the Year in 1982. He is also a member of Tau Beta Pi and Chi Epsilon, honor fraternities. Mohr is a previous Director of the Louisiana Engineering Foundation, past officer of the Shreveport Branch of the American Society of Civil Engineers, past officer of the Shreveport Chapter of the Louisiana Engineering Society, receiving the award for Scientific Achievement in 1991. He serves on the City of Shreveport Building Board of Appeals. He and his wife, the former Margaret Hughes, have three girls.

Calvin Courville, P.E., will serve on the CEC/L Board of Governors this year as Lafayette Chapter President, having been duly elected by his peers. Licensed to practice in the State of Louisiana, he was graduated from the University of Southwestern Louisiana in 1961 with a Bachelor of Science Degree in Civil Engineering. He is Chairman of the Board of the Lafayette firm, Domingue, Szabo & Associates, Inc., which offers civil, structural, environmental engineering and land surveying services to public, private and industrial clients. Courville is a member in the American Society of Civil Engineers, National Society of Professional Engineers and the Louisiana Engineering Society. He and his wife, the former Lou Fontenot, have four children.

Michael G. Bruce, P.E., has been elected President of the Baton Rouge Chapter and will serve on the Board of Governors in that capacity. Bruce is a principal and part owner of ABMB Engineers, Inc., a Baton Rouge consulting firm specializing in general civil/structural engineering, highways/streets, bridges, transportation and traffic engineering, construction services, and computer applications. Licensed in Louisiana, Alabama and New Jersey, he was graduated from Louisiana State University with a Bachelor of Science Degree in Civil Engineering. Bruce is a member of the Louisiana Engineering Society, National Society of Professional Engineers, and the Society of American Military Engineers. A member of Chi Epsilon at LSU, he is the former chairman and vice chairman of the Baton Rouge section of LES-PEPP, and he serves on the Advisory Council for High School for the Engineering Profession. Bruce is also a member of the Baton Rouge Ancient Athlete Society. He is married to the former Louise Slack, and they have a five-year old son.

Continued on page 10

LES Executive Committee and Deans Meet

The Louisiana Engineering Society has enjoyed a long standing relationship with the Council of Engineering Deans. One of the many objectives of Past President Hunn was to strengthen this relationship. With this in mind, the Society hosted a luncheon on May 18, 1994, for the LES Executive Committee and the Engineering Deans. Those present from LES were: Dale T. Hunn, P.E.; Edgar P. Benoit, P.E.; Carl A. Jakob, P.E.; Ronald J. Rodi, P.E.; Robert A. Brossette, P.E.; Bobby E. Price, P.E., PEE Chairman; and, Leta G. Bueto, LES Executive Director. Four Engineering Deans were present: Dr. E. McLaughlin, P.E., Louisiana State University; Dr. Carroll Karkalits, P.E., McNeese State University; Dr. John N. Crisp, P.E., University of New Orleans; and, Dr. Anthony B. Ponter, University of Southwestern Louisiana.

The attendees participated in some lively discussions on many thought provoking issues which included:

- Continuing Professional Competency
- Passing rates on the Fundamentals of Engineering Examination
- Viability of LES/Professional Engineers in Education and the Council of Deans
- Teaching Ethics and Professionalism
- How can LES help the universities?
- How can the Council of Deans help LES?
- Exit exams for engineering graduates
- Registration of faculty members
- Faculty participation in LES
- MATHCOUNTS Scholarships

The Society has for many years provided meeting space for the Council to meet in conjunction with LES state meetings. However, we believe this is the first time in many years where LES has arranged a meeting with the Council to discuss such issues as those listed above. We detect the "beginning of a solid relationship between the two groups" and hope to build on this initiative with a semi-annual or annual meeting.

Biographical Sketches

Continued from page 9

Rahman Bhatti, P.E., has been elected by his peers to serve on the Board of Governors as the New Orleans Chapter President. He is a principal in Rahman and Associates, Inc., a Metairie, LA based consulting engineering firm offering General Civil/Structural engineering, building, streets, highways, bridges, transportation and traffic engineering, construction management, sewerage, pumping stations, industrial structures, hydraulics and hydrology. A Registered Professional Engineer in the State of Louisiana, Bhatti was graduated from Tulane University in 1979 with a Master's Degree in Civil Engineering, and he is a member of the American Society of Civil Engineers. He is Past President of the Pakistan Community Association of Greater Metropolitan New Orleans, and is a current board member of the Asian Pacific American Society of New Orleans. An honorary citizen of New Orleans, Bhatti and his wife, the former Najam Mohsin, have three daughters.*LE*

The Society expresses its appreciation to the participating deans for taking time from their busy schedules to discuss these issues and others important to the profession.*LE*



Seated left to right: Ronald J. Rodi, P.E.; Edgar P. Benoit, P.E.; Carl A. Jakob, P.E.; Robert A. Brossette, P.E.; and Bobby E. Price, P.E.
Standing left to right: Dr. John N. Crisp, P.E.; Dr. Carroll Karkalits, P.E.; Dr. Anthony P. Ponter; Dr. E. McLaughlin, P.E.; Dale T. Hunn, P.E.; and Leta G. Bueto

CALENDAR OF EVENTS

We invite all technical and professional organizations to submit their meeting dates for publication in the *Louisiana Engineer* to: Editor, P. O. Box 2683, Baton Rouge, LA 70821.

August 1994

- 26 LES Board of Direction Meeting
Bayou Chapter Area

September 1994

- 19-20 State Board of Registration Meeting
New Orleans, LA
- 30 LES/NSPE Dues Invoices Mailed

October 1994

- 6-8 NSPE Southwestern Regional Meeting
Oklahoma City, OK
- 20-22 ACEC Fall Membership Conference
Billings, MT
- 28-29 NCEES Written Exams



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



LAND SURVEYORS

The door closes this year for land surveyor applicants who are not:

1. Land Surveyors-In-Training of the Louisiana Board (Section 311 B 7).
- or 2. Individuals with a baccalaureate degree with at least thirty (30) semester hours in land surveying, mapping, and real property courses approved by the Board (Section 311 B 6).

It may not be too late for those of you with the following qualifications:

- 1 - Section 311 B 1 — Bachelor of Science degree, six (6) semester of land surveying courses, and four (4) years experience in land surveying.
- or 2 - Section 311 B 2 — Sixty (60) semester hours of college credit, six (6) semester hours of land surveying courses, and six (6) years of experience in land surveying.
- or 3 - Section 311 B 3 — High school graduate with eight (8) years of experience in land surveying.
- or 4 - Section 311 B 5 — Professional engineer registrant of the Louisiana Board, six (6) semester hours of land surveying courses, and two (2) years of land surveying experience.

This year is the last opportunity for those of you who qualify under Section 311 B 1, Section 311 B 2, Section 311 B 3, and Section 311 B 5 to apply for land surveyor registration. Please call the Board office if you wish to apply (504) 568-8450.

Nôtre Métier

The Board approved the following rules at its July 26-27, 1994 Board Meeting. These rules become effective as soon as they are published in the *Louisiana Register* which may be as early as August 20, 1994.

Title 46

Professional And Occupational Standards

Part LXI. Professional Engineers and Land Surveyors

Subpart I. Rules

Chapter 1. General Provisions

§105 Definitions

- J. "Under the supervision and charge of a professional engineer" as it applies in Louisiana Revised Statute 37:701(C) only, shall mean:
 1. The work performed by a professional engineer, duly registered under the provisions of this Chapter; or
 2. The work reviewed and approved by a professional engineer, duly registered under the provisions of this Chapter, who is authorized to direct changes to the engineering work; or
 3. The work performed in accordance with a system of engineering practices approved by a professional engineer, duly registered under the provisions of this Chapter.
- K. "Employees", for purposes of Louisiana Revised Statute 37:701(C) only, shall mean:

1. Any and all persons to or for whom a person, firm or corporation engaged in industrial operations pays salary or other compensation, withholds taxes, provides benefits or pays workers' compensation and/or liability insurance, including without limitation all persons covered by the definition of "Bona fide employee" as set forth in the Rules of the Board; or
2. Any and all persons whose conduct a person, firm or corporation engaged in industrial operations has the right to control, including the right to hire, fire or directly supervise, the right to set the person's work schedule and job duties, or the right to set the terms and conditions of employment, including without limitation individuals supplied through an employment agency or consultant firm; *LE*

SCHEDULE OF EXAMINATION DATES

Examination	Examination Date	Application Postmark Date
Principles & Practice of Engineering (8 hr.) Civil (Including Structural & Sanitary), Chemical, Electrical & Mechanical	10/28/94 04/07/95	08/01/94 01/09/95
Agricultural, Control Systems, Environmental, Industrial, Metallurgical, Mining, Nuclear and Petroleum	10/28/94 10/27/95 10/25/96	08/01/94 07/31/95 07/29/96
Principles & Practice of Land Surveying (6 hr.)	10/28/94 04/07/95	05/02/94 10/10/94
LA Laws & Procedures of Land Surveying (2 hr.)	04/07/95 04/19/96	10/10/94 10/23/95
Fundamentals of Land Surveying (8 hr.)	10/29/94 04/08/95	05/02/94 10/10/94
Fundamentals of Engineering (8 hr.)	10/29/94 04/08/95	08/01/94 01/09/95

Application — NOT Pre-application — must be postmarked not later than the date indicated before an applicant will be considered for the respective examination. Note that the approximate interval between postmark dates and examination dates is 180 days for land surveying examinations 90 days for engineering examinations.

The Board may schedule an applicant for an examination later than the examination requested by the applicant and cannot guarantee that the applicant will be scheduled for the examination initially requested.

An oral examination will be scheduled for Professional Land Surveyor applicants prior to any required written examinations.

BOARD MEETING NOTICE

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

1994

Sept. 19-20

Nov. 7-8



State Legislative Bulletin

Statutes of Repose

1994 has been a banner year for the adoption of statutes of repose for design professionals. Of the six states that were without a statute of repose at the beginning of the year, **Alabama, Alaska, and Wisconsin** have since adopted such statutes.

Statutes of repose set a time period, usually based on the date of substantial completion of a project, after which a plaintiff is barred from bringing action. The average time period of such laws is nine years. The statutes of twenty-four states have been challenged and held constitutional.

Alabama - Engineers, architects and contractors are provided immunity from liability **13 years** after substantial completion of the project. Actions for injury, death, or design defects must be commenced within two years of injury or death. The Alabama Society and other groups had lobbied for the new law since an earlier statute had been declared unconstitutional in 1983. The law includes a lengthy statement of legislative intent designed to guard it from future constitutional challenge.

Alaska - Engineers, architects, and contractors are provided immunity from liability **15 years** after substantial completion of the project for personal injury, death, or property damage. The Alaska Professional Design Council (APDC), of which the Alaska Society is a member, had lobbied for the new law since an earlier statute had been declared unconstitutional in 1988. APDC is particularly pleased in that this bill was the only tort reform bill to make it out of the legislature in 1994. While APDC managed to get the House to adopt a ten-year term period, the Senate insisted on a 15-year period. After working on the issue since 1988, APDC concluded that the 15-year term period was better than no statute whatsoever.

Wisconsin - Engineers, architects, and contractors are provided immunity from liability **ten years** after substantial completion of the project for personal injury, death, or property damage. The Wisconsin Society of Professional Engineers and other organizations had lobbied for the new law since an earlier statute had been declared unconstitutional in 1989.

With these states now on board, **only three states, Kentucky, New York, and Vermont, do not have a statute of repose for design professionals.** Two of these states had legislation introduced in 1994. In **New York**, which has never had a statute of repose, the New York State Society of Professional Engineers and other groups are supporting legislation that establishes a **seven-year** statute. In **Vermont**, design professionals support legislation which establishes a **six-year** statute. The Vermont bill passed in the Senate but failed in the House. The state supreme court in 1931 had interpreted Vermont's statute of limitations to also be a statute of repose, but that interpretation was overturned in a 1989 supreme court ruling. In **Kentucky**, designers do not have a statute of repose per se, but a 1992 law does provide that in any cause of action occurring more than five years after substantial completion, there is a presumption that the building was not defective in design, construction, materials, or supplies.

Good Samaritan

Kansas - Professional engineers and architects who provide **voluntary assistance in emergency situations will be immune from civil liability** as a result of legislation signed by the Governor earlier this year. The legislation was pushed by the state's design professional associations, including the Kansas Engineering Society.

The immunity granted under the law is limited to licensed engineers and architects who provide **structural inspection services at the scene of declared natural disasters.** The immunity applies only within the first 90 days of the disaster. The law also limits the immunity to inspections of structures used for human habitation or structures owned by a public entity.

Kansas is the first state to adopt a Good Samaritan statute in 1994 and joins at least ten other states with Good Samaritan laws on the books. **Michigan, Mississippi, New Jersey, Oklahoma, Pennsylvania, and West Virginia** also had or have similar legislation under consideration in their 1994 sessions.

Disciplinary Action

Virginia - Persons regulated by the state's Department of Occupational and Professional Regulation, including professional engineers, will be protected from "outdated" consumer complaints under a statute adopted in the 1994 session. Under the new act, complainants must file their complaint for any violation of statutes or rules pertaining to the regulatory boards **within three years of the act, omission, or occurrence giving rise to the violation.** In cases where a regulated person has materially and willfully misrepresented any information required by statute or regulations to be disclosed to a complainant and the information so represented is material to the establishment of the violation, the complaint may be made any time within two years after discovery of the misrepresentation. The limitation period does not apply to any complaints for which a criminal proceeding may be instituted. The measure is aimed in part at reducing the record keeping burden of both the state licensing authority and those regulated.

The Virginia Society (VSPE) provided assistance to the interim legislative commission that studied the issue and supported the resulting legislation.

The Virginia law may be the first of its kind in establishing a statute of limitations for the filing of complaints against those regulated. VSPE reported that the study commission could find no example of similar laws in states of the Southern region.

At least one other state considered similar legislation in its 1994 session. Legislation was introduced in **Florida** that specifies that **complaints alleging disciplinary violations must be initially filed within four years after the alleged conduct.** The period of limitation does not apply to complaints where fraud, concealment, or intentional misrepresentation of fact have prevented the discovery of the conduct within the four year period; conduct that, if true, would constitute a felony; and, conduct that involves fraud or misrepresentation of a material fact in application for a license or license renewal.

And, Missouri considered related legislation that would have established a period of limitation after which a state regulatory authority could no longer proceed with a disciplinary action. The legislation, if adopted, would have **prohibited disciplinary proceedings against licensed professionals unless formal charges are filed within five years after the alleged commission of the violation.** The limitation would not apply to proceedings based on charges involving criminal action.

It is believed from an examination of other sections of the Missouri and Florida legislation that the bills were drafted with complaints against mental health practitioners in mind, but that their scope was broadened to include all licensed professions.

Engineer-Architect Interprofessional Relationship

National - NSPE, the American Institute of Architects (AIA), and other organizations met April 21, 1994, to discuss a broad range of issues. One area that NSPE had expected to resolve was that the building owner or client should have the right to select either an engineer or an architect as the coordinating or prime professional for any building design project. Unfortunately, **architectural representatives refused to accept NSPE's position and continued to insist that only they should serve as the coordinating or prime professional on building projects designed for human occupancy.** T. Dudley Hixson, P.E./P.L.S., then President of NSPE, characterized the meeting as "disappointing", because of its failure to resolve the "deep divisions" that exist on the prime professional issue.

Hixson; AIA President L. William Chapin II, FAIA; and ACEC President Paul F. Sprehe, did, however, sign the following "Statement of Interprofessional Cooperation":

We, the principal national leaders of the design professions, recognize our common interests in protecting the public health and safety by providing professional design services to the public. We represent different professions responsible for the built environment and specifically seek ways to work together to reduce conflicts within the broader design community.

We oppose interprofessional jurisdictional disputes between architects and engineers as being counterproductive to the interests of the public and the design professions. We do not seek to impose specific solutions on state and local situations but stand ready to help mediate in instances where we can be helpful.

This has been and is the basis of our cooperation in improving the design community and the services we jointly provide.

If the agreement were interpreted by both professions as meaning that both would oppose limitation on an owner's right to select either an architect or an engineer as the prime professional, then the agreement would have a positive effect. **Since its signing it is clear that no such interpretation exists.** Hixson, in response to an incomplete and somewhat misleading article about the statement that appeared in the *Engineering News-Record*, commented that "serious substantive differences between the two professions as to who may properly serve as prime professional in the design of buildings and on other projects remained entirely unresolved." AIA, on the other hand, hailed the statement as a "breakthrough for moving the design professions' focus away from interprofessional practice disputes..."LE

(Reprinted from NSPE State Bulletin, June 1994)



Washington Bulletin

Qualifications Based Selection

NSPE Discusses Brooks A/E Act with GAO. NSPE, working through the Council on Federal Procurement of Architectural and Engineering (A/E) Services (COFPAES), recently met with the U.S. General Accounting Office (GAO) to discuss a study they are undertaking on the cost effectiveness of the Brooks A/E Act. The study was requested by Representative Jack Brooks (D-TX), who spearheaded passage of the legislation in 1972. The Act requires federal agencies to use qualifications-based selection (QBS) procedures in the procurement of A/E services.

COFPAES recommended to GAO that its study include an examination of the multiple benefits of the QBS method of procurement such as: enhanced quality and safety of projects (QBS emphasizes prior performance, competence, and experience); better results from

the owner/client's perspective (the design professional gains a fuller understanding of the scope of work); a high rate of competition that includes small and minority businesses; and consistency with quality and performance goals emphasized in the Clinton Administration's National Performance Review.

GAO official stated that although they have not fully defined the scope of study, they plan to interview federal agencies utilizing QBS procedures and track the relative effectiveness and performance of QBS in the public procurement sector.

COFPAES plans to fund a separate independent study on the cost effectiveness of the Brooks A/E Act. NSPE is in need of anecdotal or quantitative information from design professionals with experience with successful design projects procured through QBS procedures and with design failures attributable to low-bid procurement. NSPE

requests that members with such information send written comments to Christine Corrado in the NSPE Government Relations Department, 1420 King Street, Alexandria, VA 22314-2794, or call her at (703) 684-2844.

Environmental Certification

NSPE Amendments Added to Superfund Bill. NSPE succeeded in obtaining amendments to the environmental training and certification section of Superfund reauthorization legislation so that licensed professional engineers will not be required to obtain an additional certification in order to continue to provide environmental site assessment services.

In late May, the House Energy and Commerce Committee adopted NSPE-drafted amendments during mark up of the Superfund Reform Act of 1994 (H.R. 3800). Representative Joe Barton (R-TX), one of three professional engineers in Congress and a member of the Committee, played the lead role in ensuring that NSPE's amendments were inserted into the bill.

Section 612, authored by Representative Bill Richardson (D-NM), establishes a voluntary program whereby states may choose to accredit private sector organizations that train and certify individuals who provide Phase I Environmental Site Assessment Services (ESAs). Organizations that obtain accreditation from participating states can then authorize their certificate holders to call themselves "certified Phase I environmental professionals." The program is aimed at providing property owners, investors, and others involved in property transactions a level of assurance that the individuals they select to conduct Phase I ESAs are in fact qualified to do so.

While supportive of Rep. Richardson's goal of curbing the ability of unqualified individuals to offer ESA services, NSPE was concerned that the program he proposed could have resulted in restricting individuals licensed under state law who have already been determined qualified to provide environmental site assessment (ESA) services, including professional engineers, from continuing to conduct Phase I ESAs. In NSPE's view, the program could also inadvertently have resulted in unqualified individuals obtaining authority to provide professional engineering and other services without meeting the state licensing requirements regulating the practice of those professions.

To address these concerns, NSPE drafted several amendments and Rep. Barton successfully advocated their adoption. NSPE's amendments ensure that 1) nothing in Section 612 shall be construed to require a professional engineer or other licensed profession whose scope of practice includes ESAs to obtain a private sector "certified Phase I environmental professional" credential; and 2) nothing in Section 612 shall be construed to permit a "certified Phase I environmental professional" to practice engineering or another licensed profession unless they are duly licensed by a state authority. A third

NSPE amendment, which was also adopted, expanded representation on an advisory board that will assist the U.S. Environmental Protection Agency in developing program guidelines to include representatives of professional societies, state government, and private sector accreditation organizations.

The ultimate fate of the environmental training and certification section (Section 612) and NSPE's amendments will not be determined until later stages in the legislative process, but NSPE is hopeful that if the Richardson provision survives, it will include NSPE's amendments. With Energy and Commerce action complete, attention in the House now shifts to the House Public Works and Transportation Committee, which shares jurisdiction over the Superfund program. The Public Works Committee has held a hearing on H.R. 3800, but has not scheduled a mark up. On the Senate side, the Environment and Public Works Committee has held hearings and begun mark up of its reauthorization bill, S. 1834.

Hazardous Waste

Clinton Proposes to Finance Welfare Reform with Superfund Taxes. NSPE has urged its Engineer Ambassadors to contact President Clinton in opposition to the Administration's proposal to finance its welfare reform plan by diverting tax revenues collected for the Hazardous Substance Superfund. The Administration has proposed extending the corporate tax currently levied for the Superfund beyond 1995 and directing these "excess savings" to welfare programs. The Administration estimates that the tax extension will generate \$1.6 billion over five years. President Clinton's proposal will need Congressional approval.

The Superfund was established in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980. CERCLA addresses the remediation needs of abandoned hazardous waste sites. The Superfund, a federal trust fund, is generated by taxes on petroleum, listed chemicals, some imported substances, and corporate income.

NSPE urged its Ambassadors to point out that the Superfund is generated through taxes that have been imposed on industry and corporations expressly for the purpose of financing hazardous waste remediation and that diversion of such revenues to finance welfare reform is a violation of the understanding on which the tax was imposed. NSPE also urged its Ambassadors to point out that the number of sites that require remedial action is already quite significant and further sites are expected to be identified. As such, any extension of taxes originally intended for the Superfund should continue to be directed to its intended purpose, and not to unrelated programs.*LE*

(Reprinted from NSPE Washington Bulletin, June 1994)



SERVING DESIGN PROFESSIONALS IN PRIVATE PRACTICE

PROFESSIONAL LIABILITY INSURANCE

LOSS PREVENTION - RISK MANAGEMENT ASSISTANCE

ALEXANDER & SANDERS INSURANCE

9613 BROOKLINE • BATON ROUGE • 70809 • 504/924-1371

Engineers in Government



Louisiana Society of Professional Engineers in Civil Service

LSPECS is an organization composed of engineers and land surveyors who work in state government. Our organization has members from many state agencies, however approximately 90% of our membership are employed by DOTD. Like most state agencies, DOTD utilizes consultants to provide various services. One such service is construction plan development. It appears that in the near future all plans prepared for DOTD will have to be done electronically via CADD. The following is an edited version of an article written by Mrs. Nancy Seal for the DOTD Road Design section. It gives a lighthearted view of computer terminologies and explains why DOTD is likely to request that all plans prepared for DOTD will have to be in Intergraph/MicroStation format. This article does not necessarily reflect current DOTD official policy.

The CADD Car?

As DOTD moves ever closer to total automation of construction plans, questions arise involving computer terminology. The following analogy is an attempt to clarify any misunderstandings and/or misinformation.

Let us compare CADD with a vehicle. When one purchases a car, one gets a certain make and model, year, a particular engine (with specific performance values) and any number of available options. The same is true when one purchases a CADD system. There are many companies who manufacture CADD systems. Two of the more prominent ones are Intergraph/Bentley Systems and Autodesk. DOTD has adopted Intergraph as our preferred "make" of CADD.

Next lets look at the model. One selects a particular model vehicle that best suits ones individual needs. CADD basic software is purchased according to the same philosophy. There are several popular "models" of CADD on the market. They include MicroStation, AutoCADD, VersaCADD and a host of others. All do basically the same things (place lines, draw arcs, write text, etc.). Each system has its own way of operating and some are more powerful than others.

MicroStation is an Intergraph product. AutoCADD is made by Autodesk. MicroStation is the software of choice for DOTD, a majority of other DOTs and the Corps of Engineers. A good number of consultants use AutoCADD. Both are excellent, top of the line systems. Just as people tend to prefer one car company over another, people tend to be as loyal to their computer systems. Claims that either MicroStation or AutoCADD is vastly superior to the other are about the same as an owner claiming that his full size Ford pickup completely outshines his neighbors comparable Chevy truck. Mostly an opinion.

Now that we have the make and model established, lets talk about what's under the hood. Just as car buyers can choose from diesel or gas and V6 or V8, the CADD consumer has similar "engine" options. These options are commonly referred to as operating systems, platforms or environments. We are not going to get into performance levels here (torque, liters, MHz and megabytes). Hardware configuration is another matter altogether. Just the basics, for now.

The operating systems (engines) include, but are not limited to, DOS, CLIX, VAX, Windows NT, Sparc, Sun and Macintosh. DOS is the most widely used. Road Design's IBM PCs used for WordPerfect

& LOTUS and our MicroStations are all DOS driven. Most consultants operate on the DOS platform. Windows NT is based on DOS. Road Design's new CADDs will be this Windows NT system. Road Design's four workstations utilize Intergraph's version of CLIX named UNIX. Each operating system speaks its' own language. In order for information to pass from one system to the other, an interpreter is required. We have an interpreter built into our UNIX workstations that can translate UNIX to DOS and vice versa.

So now we have selected a make, model and engine. Now we want to select some options to really customize our vehicle. In the CADD world, there are a multitude of options available from the extremely large to the very minute. The most important to us in Road Design is the design software option. The three most popular and powerful design packages on the market are InRoads, GEOPAK and Eagle Point. All can be added to MicroStation. All are great packages and selection of one over the other is mostly just a matter of preference. The design sections have selected InRoads/InXpress as our design software option.

The last item we need to discuss in relationship to this CADD vehicle is versions. Versions are similar to the model year of a particular car. Unlike cars, however, computer manufacturers don't wait until the new computer year to release upgrades. Each component can, and usually is, upgraded independently. What this means is that even though two design firms are operating the same software they may not be completely compatible because their versions may be different. This is not as bad as it may seem. Usually, information can be passed successfully from an older version to a newer one (which is the majority of transfers). Problems occur when the opposite is attempted.

So now you know the basics of the CADD hardware and software vehicle. DOTD drives Intergraph/MicroStation with an InRoads design option and with different engines (platforms) and years (versions). We need to shift this car analogy around a bit for this last explanation. For this purpose, we are going to view a specific CADD design project (design files, data files, auxiliary info.) as the vehicle.

Now the DOTD has determined that the only vehicle we're going to drive is say a...Chevy truck (known to the computer world as .dgn). Intergraph's MicroStation with InRoads is our Chevy truck. Now consultants can drive anything they want. They can have Fords, Toyotas, Mazdas, etc. We don't care. It doesn't matter. What does matter is what happens at trade in time. Since DOTD only drives Chevy trucks, we only accept the same as trade ins. If a consultant wants money in exchange for his design project, he best show up with a Chevy truck (.dgn). But what if he owns a Ford truck (AutoDesks' AutoCADD, called .dwg) like so many do? Not to worry. The consultant has the means by which he can perform the miraculous transformation.

Some consultants are reluctant to do this because the services of a good mechanic are not free. Still, as you will see later, the consultant must be the one to provide translations.

The mechanic is known as the translator. He can either be added to the staff or be hired on a per job basis from companies which exist solely for this purpose. The process of translation works like this:

The mechanic starts by stripping down the Ford (.dwg) to a huge pile of parts. Following our Chevy specifications (level placement, symbology, naming convention, etc.) he picks out the pieces which are interchangeable. Next, he substitutes equivalent Chevy parts for the unusable Ford parts. And finally, he adds new parts for anything that is unique to the Chevy. The mechanic then puts all this new pile of stuff together and VOILA!... a Chevy (.dgn).

Now you might ask "What's the big deal?" "Why do we insist that the consultant do this?" There are two main reasons why this conversion process has to be the responsibility of the consultant.

First, DOTD is so short-handed we barely have enough qualified people to just write the Chevy specifications. And, Ford isn't the only other make out there. We would have to have mechanics and blueprints for dismantling and reassembling each and every make and model on the market in order to allow such a policy.

Second, what if something is wrong with the Chevy truck that the consultant trades in (submits)? How will the coordinator know whether the mistake was in the original vehicle or a result of improper translation? Only the consultant can accurately compare his original Ford (.dwg) with the converted Chevy (.dgn) for accuracy and completeness.

Some consultants will suggest transferring information in ".dxf" format. Remember that pile of vehicle pieces parts that resulted from the dismantling of the Ford truck (.dwg)? That big pile of stuff is what ".dxf" format is. Since we don't employ master mechanics to

build Chevys (.dgn) from the ground up, we must just say "no" to .dxf.

So why doesn't the department just buy AutoCADD and VersaCADD and eliminate this problem? There are several arguments against this avenue.

The department has invested over ten years in acquiring equipment and training and developing a competent Intergraph/MicroStation work force. This to the tune of millions of dollars. Asking even a handful of over burdened design staff to learn another CADD system, when the current one meets our needs, doesn't make much sense.

Also, due to budget constraints, the design sections don't have nearly all the copies of MicroStation and InRoads we need yet. Each section would have to purchase copies of AutoCADD in order to process consultant plans. And who will maintain the alternate systems and other packages? DOTD's Automation section is already stretched.

Requiring Intergraph/MicroStation electronic plan submittals is no different than requiring consultants to purchase pertinent manuals, or provide final plans on matte film or maintain specific staffing. Every consultant exercises their free will in deciding whether or not to do work for DOTD. Most consulting firms understand this and have already begun to make the necessary adjustments.

Hopefully, this clears up some of the misunderstandings and mysteries of graphics computers and files.*LE*

LES Forum

Are There Too Many Engineering Schools?

by Charles E. Prewitt, P.E.

The article by Dean John Crisp in the June 1994 *Louisiana Engineer* regarding the number of engineering colleges in Louisiana, compared to those in other states was very enlightening. The data indicates that, based on the ratio of population per engineering school, Louisiana is "near the median". While this observation may have some merit, there are other comparisons which may be more meaningful, than nationwide population per engineering school.

Since the southern states are often compared in other studies, the attached Figure 1 compares Louisiana's population per engineering school with the 12 other southern states. You will note that Louisiana ranks fourth lowest for the 13 southern states.

In addition, perhaps the most important consideration is the ability of a state to fund its schools. One way to measure the financial resources of a state is to multiply the per capita income times the population per school to obtain the "income per school" in a given state. While this does not measure resources directly available to each school, it does provide a measure of the available economic potential in a state to support education. Figure 2 shows the income per engineering school for the same 13 southern states. In this comparison, Louisiana also ranks fourth from the bottom. This means Louisiana has less potential economic support per school than does Georgia. With fewer schools, there would be more people and financial strength for each school.

These comparisons show that perhaps there is justification for reduction and realignment of degree programs to eliminate much of the wasteful and costly duplication which weakens the engineering education system in Louisiana. The statistics show that Louisiana spends far more resources on engineering schools than do the other southern states. We should be using our resources to find solutions to our state's identified problems instead of perpetuating the status quo with biased and self-serving studies, which do a disservice to our profession and our fellow citizens.*LE*

Figure 1

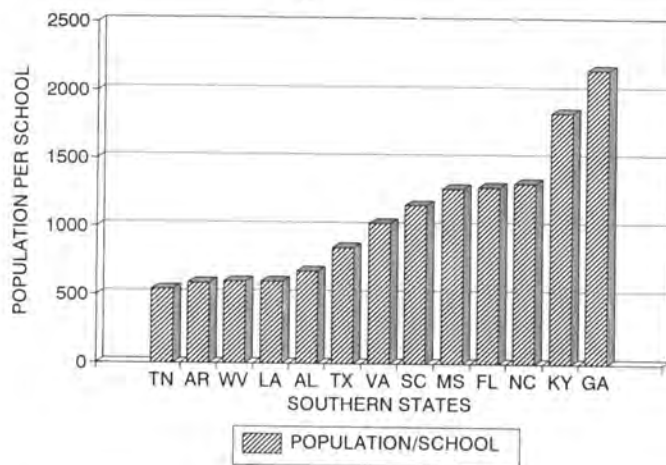
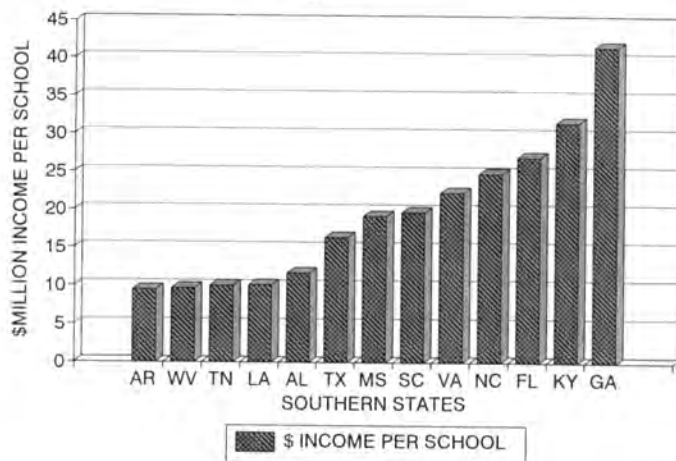


Figure 2



The Society Reports

LES Membership

by Theodore H. Thompson, P.E.

Membership Committee Chairman

September is once again our "kick-off" month for our annual membership drive, and many of you will be contacted to join the Louisiana Engineering Society. Some of you may ask "Why? I'm already a member; I receive the *Louisiana Engineer* magazine." You are not a member of the LES just because you receive the magazine. All registrants of the Louisiana Board receive the magazine. This brings me to your next question, or to others your first question, "Why join? What's in it for me?"

We know you're not being cynical, at least not in all cases. In today's world, you want to be sure you're getting the best possible value for your dollar and you want that dollar to work for you. We, as current members, feel the same way. We know that we do receive value for our dollar. Read the chapter reports that appear in this magazine each year, and learn what is being accomplished at the local level.

At the local chapter level our members have informative speakers come in and speak on local economic conditions, city mayors talk about problems and solutions facing their communities, port directors on area growth and future projects, and Department of Natural Resource engineers on coastal erosion problems to name just a few. Chapters have also discussed continuing education requirements, liability of engineers, non-registrants using the title of "engineer", and the so-called industry exemption of professional registration requirements. The local chapters also take plant tours, get involved in community activities, have tail-gate parties at local universities, provide speakers to area elementary and high schools, promote and hold area MATHCOUNTS competitions, do community improvement projects, promote Engineers Week at local malls, and promote science and math interest with school engineer-project competitions.

At the state level our annual meetings have had seminars on Life Safety Codes, EPA regulations, Project Management, and Continuing Education to name just a few. The state offices represent all of us to the state board and to the legislature on matters which affect all engineers, not just civil or not just consulting firms.

At the national level we are represented by the National Society of Professional Engineers. Space does not permit to explain all the things that LES and NSPE accomplish; but, if you are a member, these things would be relayed to you in the chapter newsletters. These newsletters would also tell you how many states have adopted mandatory continuing education as a condition of registration renewal. You would also be aware that NSPE endorses continuing education. Are you prepared to meet these requirements?

Some of you may say, "Well that SOUNDS good; but why doesn't LES do" or "Why doesn't the State do....." Contrary to what some may think the Louisiana Engineering Society is NOT the state level officers or the "group that meets in Baton Rouge"; LES is you, the members at the chapter level. The members make LES what it is or what it is not. If you want something done or an issue brought to the attention of the board, JOIN, and speak up. Chapter officers are not mind readers, they can not reply to your questions if you don't make your thoughts known.

We need you as a member. For the organization to grow and improve we need new thoughts and perspectives on all issues that face us as engineers and entrepreneurs. Current members we need you also, stay involved for you have made LES the successful organization it is; if you have not been active, attend a meeting, let us hear from you. If you don't have the time right now to be active, we very much appreciate your financial support and we will continue to work for you.

This brings me to another matter, at the recent LES annual meeting, the state membership committee met and discussed several issues facing our society. The committee recognizes that just recruiting new members does not keep us strong or maintain growth. We, as an organization must provide a service in order to keep our current members, for they are our best recruiters. We also recognize we must foster closer ties with area schools in order to promote the profession, for without future engineers we can not survive. The committee also recommended to the LES Board of Direction to conduct seminars at the annual meetings which would help us satisfy continuing education requirements.

All of the committees of LES work hard toward improving the society and providing innovative services to the membership. Our committee also has an additional responsibility, just as the name implies, we have the task of coming up with innovative ways of gaining and keeping new members. Well we still haven't found the magic solution; but, we are trying new ideas. One new idea, that was adopted by the Board of Direction, is that any current member who recruits three or more new members during our recruiting drive period (July - March) will have the next years LES portion of their dues waived. So with our "Drive Month" just around the corner invite a prospective member to your local meeting. If you are not currently a member and want to attend your next local chapter meeting or want further information on LES, contact a member, or our state office at (504) 344-4318 for information. LE



Once on the gravel roof, building inspector Grayson realized he would have to cite this contractor for improperly bonding the stones.

Roster of Engineering and Surveying Societies

The Inter-Society Relations Committee of the Louisiana Engineering Society is responsible for compiling a roster of chief executive officers for the other engineering and surveying societies located in the state for publication in the *Louisiana Engineer*, on an annual basis. The purposes of this effort are to identify contacts and improve communications among the entire engineering and surveying communities in Louisiana for such inter-society activities as coordination of legislative actions, technical seminars, Engineers' Week seminars, etc. If your engineering and/or surveying organization is not listed and you wish to be included in next year's roster, please make the request through LES at P. O. Box 2683, Baton Rouge, LA/70821.

American Institute of Chemical Engineers

Baton Rouge Section

John R. Collier, P.E.
Louisiana State University
Chemical Engineering
Baton Rouge, LA 70803
(504) 388-3038

New Orleans Section

J.B. Phillips
4418 LaPlace Street
Metairie, LA 70006
(504) 456-1424

Southwest Louisiana Section

Tom Braatz
1302 11th Street
Lake Charles, LA 70601
(318) 882-1651

South AR & North LA Section

Mark Wilson
Great Lakes Chemical
324 Southfield Cutoff
El Dorado, AR 71730
(501) 862-1355

American Society of Agricultural Engineers

Louisiana Section

Rodney K. Rinehart
P. O. Box 25055
Baton Rouge, LA 70894
(504) 388-8731

American Society of Civil Engineers

Om P. Dixit, P.E., President
Burk-Kleinpeter, Inc.
4176 Canal Street
New Orleans, LA 70119
(504) 486-5901

American Society of Plumbing Engineers

New Orleans Chapter

Louis R. Pastor, CIPE
IMC Consulting Engineers
3120 20th Street
Metairie, LA 70002
(504) 831-9119

American Society of Safety Engineers

Greater Baton Rouge Chapter

Leonard P. Roussel
P. O. Box 113
Hester, LA 70743
(504) 473-4271

New Orleans Chapter

Phillip Mapp
4123 Platt Street
Kenner, LA 70065
(504) 464-0770

Consulting Engineers Council of Louisiana, Inc.

Joe E. Roach, P.E., President
BaLaR Associates, Inc.
401 Edwards Street, Suite 815
Shreveport, LA 71101
(318) 221-8312

Illuminating Engineering Society

Craig Clement
IMC Consulting Engineers
3120 20th Street
Metairie, LA 70002
(504) 831-9119

Institute of Electrical and Electronics Engineers, Inc.

Baton Rouge Section

Kenneth J. Hymel, P.E.
4313 Downing Drive
Baton Rouge, LA 70809
(504) 923-1641

Institute of Industrial Engineers

Bhaba Sarker
3128 CEBA Building
IMSE Department
Louisiana State University
Baton Rouge, LA 70803
(504) 388-5370

Institute of Transportation Engineers

Deep South Section

Denis J. Finigan
3605 Purdue Drive
Metairie, LA 70003
(504) 523-5511

Louisiana Engineering Foundation

Charles L. Eustis, P.E., President
4747 S. Park Drive
Apt. #203
Baton Rouge, LA 70816
(504) 293-2460

Louisiana Engineering Society

Edgar P. Benoit, P.E., President
5523 Stones River
Baton Rouge, LA 70817
(504) 291-3060

Louisiana Society of Professional Engineers in Civil Service

Robin Romeo, P.E., President
18470 Lakehaven Court
Baton Rouge, LA 70817
(504) 231-4151

Louisiana Society of Professional Surveyors

Timothy J. Allen, P.L.S., President
1246 Bayou Blue Road
Houma, LA 70364
(504) 752-5955

Louisiana Water Pollution Control Association

Linda M. McConnell, P.E.
G&E Engineering, Inc.
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70816
(504) 292-9007

National Society of Professional Engineers

Monte L. Phillips, P.E., President
University of North Dakota
Civil Engineering
Upson II Building, Room 260J
Grand Forks, ND 58202-8115
(701) 777-3780

Society of American Military Engineers

Alexandria Post

Neil H. Klock, P.E., President
P. O. Box 5532
Alexandria, La 71307
(318) 448-0888

Louisiana Post

Captain J.G. Rogers, III, President
U.S. Navy Commander Naval
Reserve Force, Attn: Code 01E
Bldg. 603, Room 234
4400 Dauphine Street
New Orleans, LA 70146-5000
(504) 948-5711

Shreveport Post

Kenneth V. Hill, P.E., President
401 Edwards Street, Suite 1600
Shreveport, LA 71101
(318) 221-7117

Society of Manufacturing Engineers

Chapter 60

Ronald H. Burch, Chairman
P. O. Box 10799
Jefferson, LA 70181

New Registrants of the State Board

New Registrants for the Period 05/11/94 - 07/05/94

Professional Engineers:

CHEMICAL

Christopher Ernst Kuttruff
New Orleans, LA
Mark August Knobloch
Slidell, LA
Cheng-Shen Fang
Lafayette, LA
Lori Terrien Luther
Baton Rouge, LA
Jennifer Anne Savoie
Baton Rouge, LA
Miron Lee Salvador
Baton Rouge, LA
Arthur Freedman
Baton Rouge, LA
Gerald Johnson Wilborn
Baton Rouge, LA
Claire Roach Dooley
Baton Rouge, LA
James Edward Hackney
Baton Rouge, LA
Sharon Patterson Hampton
Houston, TX

CIVIL

Chong Shing Liew
West Malaysia
Alan Francis Hassett
Berwyn, PA
Samuel Arthur Wood
Winfield, WV
Taher Mowaffaq Abu-Lebdeh
Jamestown, NC
Gulamhussein Turabally Fazleabas
Charlotte, NC
Harold Arthur Frediani, Jr.
Roswell, GA
Joseph Alan Carris
Acworth, GA
Michael Paul O'Reardon
Pelham, AL
Harry Glenn Summers III
Anniston, AL
Terrance Richard Coleman
Kettering, OH
Leonard Weintraub
Chesterfield, MO
Mohammed Ibrahim
St Louis, MO
Thomas Michael Vossmeier
St Louis, MO
Mahboob Ahmed Choudhry
Metairie, LA
William James Meliet
Metairie, LA
Mahmoud Reza Mowla
Kenner, LA
Thomas Joseph Martin, Jr.
Kenner, LA
Mary Ann Yazgi
New Orleans, LA
Matthew John Wallace
New Orleans, LA
Susan Michelle Hidalgo
River Ridge, LA
John Edward Fulton
New Orleans, LA
James Richard Kreimborg
Slidell, LA

Jeffrey Louis Duplantier
Lafayette, LA
Frank Martin DeBlanc
Saint Martinville, LA
Tadeusz Antoni Cybin
Lake Charles, LA
Kurt Emil Wartenbach
Lake Charles, LA
Gregory Baten Young
Lake Charles, LA
Daniel Earle Kidd
Lake Charles, LA
Christopher Peter Knotts
Brusly, LA
Fang Xin Yu
Baton Rouge, LA
Gregory Paul Wilson
Baton Rouge, LA
Juliette Pierce
Baton Rouge, LA
Fred Joseph Borne, Jr.
Baton Rouge, LA
Scott Anthony Longon
Baton Rouge, LA
Byron James Becnel
Baton Rouge, LA
Christine Connella Richmond
Baton Rouge, LA
David Leroy Thompson
Baton Rouge, LA
Dana Anne Lawton
Baton Rouge, LA
Michael Joseph Murphy
Bossier City, LA
Dean DeWitt Brown
Shreveport, LA
Steven Wayne McCrary
Ruston, LA
Michael Paul D'Angelo
Alexandria, LA
John Hamid Nourzad
Rogers, AR
Jeffrey Alan Decoteau
Houston, TX
Terrance Richard Coleman
Houston, TX
Tommy Dale Overton, Jr.
Houston, TX
Thomas Francis Clark
Houston, TX
John McWhirter Cape
Humble, TX
Abdelrahman Deifallah
Montgomery, TX
Siamak Fariabi
Katy, TX
David Layne Diehl
Clute, TX
Mark Anthony Board
Friendswood, TX
Rory Carl Rottschalk
Chico, CA

CONTROL SYSTEMS

Eugene Louis Lambert
Exeter, NH
William Alvin Dyar
Gretna, LA
Phillip Walter Dziubla
Kenner, LA
Leo Leonard Holzenthal, Jr.
New Orleans, LA
Robert Mejia
New Orleans, LA

Michael Ephrem Boustany, Jr.
Lafayette, LA
Robert Pearce Larkan
Baton Rouge, LA
Leslie Gerald Rester
Baton Rouge, LA
John Edward Johnson
Baton Rouge, LA

ELECTRICAL

Lee Roy Sims, Jr.
Central, SC
Larry Kent Henderson
Gainesville, FL
Jason Jerome Barbera
Daphne, AL
Matthew Bate Dozier
Nashville, TN
Donald Austin Josephs
Kentwood, MI
John Thomas Caldwell
Chicago, IL
Daniel Patrick O'Grady
Leawood, KS
Richard Earl Nichols
Metairie, LA
Ronald Joseph Ledet, Jr.
Metairie, LA
Michael Dean Harbison
Destrehan, LA
George Robert Bartlett
New Orleans, LA
Kenneth Edward Swayne
River Ridge, LA
Kevin John Anderson
New Orleans, LA
James Edward Dragoset
New Orleans, LA
Hui Fung Wang
New Orleans, LA
Louis August Barrios, Jr.
Mandeville, LA
Felipe Humberto Rengifo
Slidell, LA
Leo Paul Henny
Lake Charles, LA
Henry Yik-yu Woo
Lake Charles, LA
Randal Thomas Tassin
Zachary, LA
Dean Peter Brown
Baton Rouge, LA
Monty Blane Lacour
Baton Rouge, LA
Edmund Walter Winston III
Baton Rouge, LA
Lonnie Louis Buie, Jr.
Maumelle, AR
Gregory Allen Biasetti
Houston, TX

ENVIRONMENTAL

James Jackson Smith
Birmingham, AL
Charles Hutson Rollins, Jr.
Pass Christian, MS
Thomas Lee Jackson
Metairie, LA
Mark Stephen Witten
Metairie, LA
John Bernard Grieshaber
Metairie, LA

John William Giardina, Jr.
Gretna, LA
Kerry Anthony Mire
Gretna, LA
Thomas Martin Schreiner
Kenner, LA
Vincent Charles Provenza
Kenner, LA
Frederick Louis Wetekamm III
Kenner, LA
Kim Lyle Harvey
Luling, LA
Herbert Anderson Clark, Jr.
Marrero, LA
James Richard Danner, Jr.
New Orleans, LA
Julie Zitzmann LeBlanc
New Orleans, LA
Charles Edward Prewitt
River Ridge, LA
Michael Otis Waguespack
New Orleans, LA
Larry Douglas Wink
New Orleans, LA
Columbus Russell Rader, Jr.
New Orleans, LA
Cheryl Goodling Peyton
Folsom, LA
Charles Stewart Hedges
Slidell, LA
Eldridge Alexis Monette III
Slidell, LA
Michael Ephrem Boustany, Jr.
Lafayette, LA
Raymond Joseph Reaux
Lafayette, LA
Vincent Stephan Palumbo II
Lafayette, LA
Gerald Anthony Dubroc
Lafayette, LA
Charles Timothy Mader
Lafayette, LA
Howard Mitchell McCain
Lafayette, LA
Richard James Primeaux
Broussard, LA
Warren Paul Boudreaux
Carencro, LA
Glenn Edward Miller
Baldwin, LA
John Calvin Fore, Jr.
Jeanerette, LA
John Autry Key
Rayne, LA
Gary Lynn Whitaker
Lake Charles, LA
Ronald Houston Jones, Jr.
Lake Charles, LA
Wayne Robert Talbot
Brusly, LA
Kent James Veron
Gonzales, LA
Ronald Roy Edward Hebert
Plaquemine, LA
Robert David Crawford
Zachary, LA
Clyde Edward Carlson
Baton Rouge, LA
Douglas James Gremillion
Baton Rouge, LA
Kerry Mahler Hawkins
Baton Rouge, LA
Richard Patrick Wright
Baton Rouge, LA
Zahir Bolourchi
Baton Rouge, LA

Billy Roy Prochaska
Baton Rouge, LA
Elwood Jacob Hartley
Baton Rouge, LA
Allen Richard Major, Jr.
Baton Rouge, LA
Karl Junius Finch
Baton Rouge, LA
Lee David Knight
Baton Rouge, LA
Emily Ruffin McCreary
Baton Rouge, LA
Leslie Gerald Rester
Baton Rouge, LA
Timothy John White
Baton Rouge, LA
Gregory Karl Schultz
Baton Rouge, LA
Mark Burgess Hudson
Shreveport, LA
James Austin Hagan, Jr.
Shreveport, LA
Ali Mohammad Mustapha
Shreveport, LA
Ronald Edgar Smith
Shreveport, LA
James Wayne Roberson
Shreveport, LA
Marty Edward Herlevic
Monroe, LA
John Patrick Kelly
Monroe, LA
John Allen Guillot
Ruston, LA
John William Moore
Ruston, LA
Donald Wayne Plummer
West Monroe, LA
David Lane Beard
West Monroe, LA
Bryant O'Dare Hammett, Jr.
Ferriday, LA
Garland Paul Pennison
Pineville, LA
Charles Daniel Campbell
El Dorado, AR
Dorsey Raymond Perry, Jr.
Houston, TX
Raymond Joseph Battalora
Lakewood, CO
Rance Roy Wall
Eagle River, AK

MECHANICAL

Ronald Wallace Lieblein
Marlboro, NJ
Gerald Charles Grubsky
McMurray, PA
Martin Scott George
Marietta, GA
Howard Matthew Yonge
Pensacola, FL
Larry James Kilgore
Mobile, AL
Walter Roberts Green
Franklin, TN
Edward Spivey Lipsey, Jr.
Nashville, TN
Dudley Carl Lightsey
Laurel, MS
Carl Raymond Jackson
Diamondhead, MS
Philip Wayne Grossman
Belmont, MI

Osman Ayoob Meah
Markham, IL

David James Pieper
Metairie, LA

Robert Edward Chachere, Jr.
Metairie, LA

Robert Anthony Binder, Jr.
Metairie, LA

Brian Ray Heath
Metairie, LA

Michael Allen Murray
Harvey, LA

Donald Ohrling Wittke
Kenner, LA

Yvonne Marie Traynham
New Orleans, LA

Gerald Gabriel Lagarde, Jr.
New Orleans, LA

Jefferson Walton Watkins
Pearl River, LA

David Christopher Qualls
Lafayette, LA

Perry Dominic Yoder
Lake Charles, LA

Roland John Doucet, Jr.
Lake Charles, LA

Randal Craig Liprie
Lake Charles, LA

Jon Christopher Thomas
Lake Charles, LA

Rodney James Fruge, Jr.
Sulphur, LA

Robert Edward Jelley
Greenwell Springs, LA

Darryl Andrew Pope
Baton Rouge, LA

Tod Arthur Myrum
Baton Rouge, LA

Bruce Arthur du Fresne
Baton Rouge, LA

Ronald Joseph Kobialka
Baton Rouge, LA

Brian Edgar Cusick
Baton Rouge, LA

Darren Mills Hopkins
Baton Rouge, LA

Michael Kent Dunavant
Shreveport, LA

Bradley Ray Tilton
Shreveport, LA

Cengiz Mehmet Topakoglu
Monroe, LA

David Matthew Pfundt
Plano, TX

Owen Charles Taylor, Jr.
Woodville, TX

David John Burkhart
Arlington, TX

Charles William Soltis
Houston, TX

Chao Lu
Houston, TX

Siri Chand Gupta
Missouri City, TX

Steven Jack Stewart
Port Neches, TX

Kevin Mark Hudson
Carlsbad, CA

PETROLEUM

Andrzej Krzysztof Wojanowicz
Baton Rouge, LA

Professional Land Surveyors:

Thomas Whitson Brooks, Jr.
Tuscaloosa, AL

Merlin Jonathan Miller
Saraland, AL

Gary Michael Thornton
Coffeeville, MS

Wesley Doyle Householder
Metairie, LA

Charles Manuel Johnson
River Ridge, LA

Craig Stephen Duet
Houma, LA

John Charles Mattingly
Houma, LA

Henry Maurice Picard III
Mandeville, LA

David Leslie Cormier
Lafayette, LA

Dean Francis Pottle
Carencro, LA

John Raynold Den Vincent
Maurice, LA

Jesse Lee Thibodeaux
Sunset, LA

John Todd Deville
Ville Platte, LA

Robert Lewis Lastrapes
Youngsville, LA

Larry Wayne Danna
Denham Springs, LA

Dennis Ray Hebert
Denham Springs, LA

Cletus Langlois
New Roads, LA

Woody Richard Triche
Port Allen, LA

Robert Hamilton Brooks III
Port Allen, LA

James Stephen Melton
Baton Rouge, LA

David Kevin Burdeaux
Baton Rouge, LA

Barton Lee Rumsey, Jr.
Baton Rouge, LA

Max Overton Usrey III
Baton Rouge, LA

John Michael Bankston, Jr.
Baton Rouge, LA

Dan Bradley Graff
Haughton, LA

Stephen Edward Leroy
Shreveport, LA

Thomas Quilmen Hathorn, Jr.
Bossier City, LA

Don Richard Wood II
Shreveport, LA

John Robert Bowman, Jr.
Shreveport, LA

Paul Brian Rossini
Shreveport, LA

Mark Henry Tooke
Jena, LA

Darrell Dwight Wise
Simpson, LA

H. Timothy Howell
Winnfield, LA

John Patrick Ferrers Going
Houston, TX

James Anthony Stanton
San Antonio, TX

Keith Anthony Jimenez
San Antonio, TX

Richard Henry Charitat
Vevadale, WA

SERVICES & SUPPLIERS

PIPE & LEAK LOCATING

- ✓ LEAKS UNDER SLAB FLOORS
- ✓ SEWER LINE MAPPING & PROFILING
- ✓ WATER & GAS SYSTEM LEAK SURVEYS

LEAK TECHNOLOGY
div. PRO-AM, INC.
3814 HWY 43 NORTH
PICAYUNE, MS 39466

FRANK ZIMBELMAN, PE
NEW ORLEANS
583-1857
(800) 673-5726

The Best People
The Best Equipment
For the Best Product!

We House A Complete
"Independent" Art Department

Ed's ep
PRINTING
COMPANY, INC.

925-0991
9366 Greenwell Springs Rd.
at Monterrey

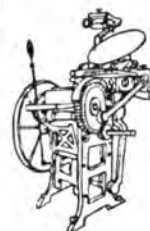
Water King



James E. Bowie, Jr., Ph.D., P.E.

Acadiana Treatment Systems
103 Charbonnet Road
Duson, Louisiana 70529
(318) 988-2360
Fax: (318) 981-7922

USL (318) 231-6846



FAX 355-2178

PRINTING INCORPORATED

3019 PLANK ROAD (504) 357-5961
BATON ROUGE, LOUISIANA 70805

MECO®

Sea Water Conversion Equipment
Pharmaceutical Distilling Plants
Marine Heat Exchangers and Pumps
Reverse Osmosis Systems

MECHANICAL EQUIPMENT COMPANY, INC.
861 CARONDELET STREET, NEW ORLEANS, LA 70130 U.S.A.

PHONE: (504) 523-7271
TELEFAX: (504) 525-4846

TELEX: 460165

PROFESSIONAL LISTINGS

WALDEMAR S. NELSON AND COMPANY

INCORPORATED
ENGINEERS AND ARCHITECTS

1200 ST. CHARLES AVENUE
NEW ORLEANS, LA 70130



TELEPHONE: (504) 523-5281
FACSIMILE: (504) 523-4587
TELEX: 584351 HELBEG

COMPLETE ENGINEERING AND PROJECT MANAGEMENT SERVICES
45 YEARS OF EXPERIENCE SERVING INDUSTRY

- SITE PLANNING / PERMITTING
- CHEMICAL / PROCESS / PETROLEUM
- CIVIL / STRUCTURAL
- ELECTRICAL / ELECTRONIC
- ENVIRONMENTAL / SANITARY
- INSTRUMENTATION / CONTROLS
- CONSTRUCTION MANAGEMENT

- MONITORING / MODELING
- MECHANICAL
- PIPELINE
- MINING
- HVAC
- ARCHITECTURE
- ASBESTOS



Parsons Brinckerhoff Quade & Douglas, Inc.

One Lakeway Center
3900 North Causeway Blvd.
Suite 1460
Metairie, LA 70002
504-830-0070
Fax: 504-830-0071

BALAR

CONSULTING ENGINEERS



STEVEN W. BROWN, P.E.

BALAR ASSOCIATES, INC.
401 EDWARDS ST. SUITE 815
SHREVEPORT, LA 71101
(318) 221-6312
FAX (318) 424-6508

- CIVIL
- STRUCTURAL
- ENVIRONMENTAL



SIMMONS J. BARRY & ASSOCIATES

A UTILITY OPERATORS, INC. COMPANY

CONSULTING ENGINEERS
AND PROFESSIONAL LAND SURVEYORS
FOR INDUSTRIAL, GOVERNMENTAL, AND COMMERCIAL CLIENTS

POST OFFICE BOX 1751 BUS 504-769-3400
BATON ROUGE, LOUISIANA 70821 FAX 504-769-3596

LOURIE CONSULTANTS

geotechnical and geoenvironmental
consulting services

...quality measured in the client's terms

3924 Haddon Street
Metairie, Louisiana 70002-3011
Tel: (504) 887-5531
Fax: (504) 888-1994



Roger D. Melancon, P.E.

GULF INDUSTRIES, INC.

SAFETY ENGINEERING

P.O. BOX 309 • MANDEVILLE, LA 70470-0309
(504) 892-6500 • FAX (504) 892-0707



MONTGOMERY WATSON

3501 N. Causeway Blvd.
Suite 300
Metairie, Louisiana
70002

Telephone: 504 835 4252
Fax: 504 835 8059

Serving the World's Environmental Needs



ERM-Southwest, Inc.

ENVIRONMENTAL
CONSULTING
ENGINEERS &
SCIENTISTS

412 La Salle Street
Shreveport, Louisiana 71107
318-222-5821
Ben D. Atchley Sr. P.E., P.L.S.
Ben D. Atchley Jr. P.E., P.L.S.



CORPORATE OFFICE
17170 PERKINS ROAD
BATON ROUGE, LA 70810
(504) 755-1000
FAX: (504) 751-2010

YOUR FULL SERVICE
ENVIRONMENTAL
CONSULTANT

LAMY J. CHOPIN, JR., P.E.

Engineered Solutions to Regulatory Issues
Baton Rouge • Lake Charles • Shreveport • Besumant-Port Arthur



LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

Geotechnical Engineers

Engineering Consultation
Laboratory and Field Testing
Land and Marine Site Explorations

10555 Airline Highway Baton Rouge, LA 70816-4199
Telephone (504) 293-2460 Fax (504) 293-2463



ALLIANCE, INC.

Architecture • Engineering • Planning
Airport Consulting • Surveying

Petroleum Square, Suite 100 1324 North Hearne Avenue
Shreveport, LA 71107 FAX (318) 221-7635
Phone (318) 221-7501



WINK INC. COMPANIES

WINK ENGINEERING
W/E PROFESSIONAL SURVEYS

4949 Bullard Ave. - New Orleans, LA 70128-3147
Office: (504) 246-7924 Fax: (504) 246-8759

MEYER, MEYER LACROIX & HIXSON, INC.

Consulting Engineers & Land Surveyors

P. O. Drawer 5444
3666 Government St.
Alexandria, Louisiana 71301
Telephone (318) 448-0888

P. O. Drawer 1245
401 West Mississippi Ave.
Ruston, Louisiana 71270
Telephone (318) 255-7236

James L. Meyer, P.E., R.L.S. R. B. LaCroix, R.L.S.
Arthur E. Meyer, P.E., R.L.S. T. D. Hixson, P.E., R.L.S.

CONSULTING ENGINEERS



pyburn & odom, inc.

RIVER CROSSINGS • WATERFRONT STRUCTURES
HYDROGRAPHY • HIGHWAYS • INDUSTRIAL SITES
ENVIRONMENTAL STUDIES • SINCE 1948

8178 GSRI AVENUE • BATON ROUGE, LA 70820-7405 • (504) 766-6330



FORTE AND TABLADA, INC.

CONSULTING ENGINEERS



OFFICE (504) 927-9321 • FAX (504) 927-9326
P.O. BOX 64844 • BATON ROUGE, LA 70896
9107 INTERLINE AVE. • BATON ROUGE, LA 70809



professional engineering consultants corporation

Consulting Engineers

1450 Seaboard Drive
Baton Rouge, La. 70810 (504) 769-2810

TQM Systems®

Making Quality a Reality

12382 Mollylea Drive
Baton Rouge, LA 70815-6616
Phone: 504-273-4972

M.M. "Mickey" Christensen, P.E.
President IQA Assessor # A003773

RPM ENGINEERING, INC.

A PROFESSIONAL ENGINEERING CORPORATION



9969 Professional Boulevard
Baton Rouge, LA 70809
(504) 292-9901



BROWN & BUTLER, INC.

Consulting Engineers and Land Surveyors

General Civil Engineering & Land Surveying

8335 KELWOOD AVE.-SUITE D PH. 504/ 924-0235
BATON ROUGE, LA 70806-4804 FAX: 504/ 926-1687



THE MEYER GROUP



Meyer and Associates, Inc.
Engineers • Planners
Vernon F. Meyer and Associates, Inc.
Surveyors
The Meyer Group, Inc.
Project & Construction Management

600 Cities Service Hwy. • P.O. Box 2149 • Sulphur, Louisiana 70664 • (318) 625-8353
5525 Mounes Street, Suite 102 • New Orleans, Louisiana 70123 • (504) 733-3770



SALMON & ASSOCIATES, INC.

Consulting Engineers serving the
Chemical, Petrochemical,
Petroleum and Metallurgical Industry

626 HIGHLANDIA
BATON ROUGE, LA 70810
(504) 752-7250

Office Ph. (504) 868-1050
N.O. Ph. (504) 586-8222
Home Ph. (504) 872-6003
FAX Ph. (504) 868-5843

T. BAKER SMITH & SON, INC.
CIVIL ENGINEERS & SURVEYORS
LAND - OFFSHORE HYDROGRAPHIC
ENVIRONMENTAL RESEARCH

550 South Van Ave.
P.O. Box 2266
Houma, LA 70361

WM. CLIFFORD SMITH, P.E., L.S.
President

QED

Quest Engineering & Development Corp.



Specializing In:

STRUCTURAL & EQUIPMENT DESIGN,
REDESIGN, FAILURE ANALYSIS, &
COMPUTER FEM SIMULATION

7500 North Belt-Humble (Houston) TX. 77396

Call: SAM BROWN, Ph.D., P.E.
(713) 441-2525



WALK, HAYDEL & ASSOCIATES, INC.

Project Managers
Engineers
Construction Managers

600 Carondelet St. New Orleans, LA 70130
(504) 586-8111

Baton Rouge Mobile Little Rock



LaBaue and Company

CONSULTING ENGINEERS
CIVIL STRUCTURAL

3717 GOVERNMENT ST.
ALEXANDRIA, LA 71302

318-445-8910



CSRS

CHENEVERT • SONGY • RODI • SODERBERG

An Engineering/Architectural Corporation

10725 Perkins Road, Suite 200 • Baton Rouge, LA 70810
Phone (504) 769-0546 • Fax (504) 767-0060

Norman J. Chenevert, AIA Michael B. Songy, P.E., P.L.S.
Ronald J. Rodi, P.E. Curtis D. Soderberg, AIA

COYLE ENGINEERING
CO., INC.



CHARLES G. COYLE, P.E.

P.O. BOX 6177
BOSSIER CITY, LOUISIANA 71111-6177

3925 BENTON RD
PHONE (318) 746-8987

DAVID VOLKERT & ASSOCIATES, INC.

ENGINEERS • ARCHITECTS • PLANNERS
3500 N. Causeway Blvd • Suite 1240
Metairie, LA 70002
(504) 837-6234 • FAX (504) 837-6237
Major offices in Metro Washington, D.C.
Mobile, AL • Tampa & Miami, FL

Office (504) 632-5596

Res. (504) 632-5646

J. W. P., INC.

J. Wayne Plaisance, Inc.
Civil Engineers • Land Surveyors

JOHN J. PLAISANCE, II
President

Post Office Drawer 730
Galliano, Louisiana 70354

Alliet, Fenner, Jolly & McClelland, Inc.

Consulting Civil & Structural Engineers

Robert R. Alliet, Robert D. Fenner, Leland H. Carter
Richard R. Alliet, Gary W. Fenner

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

1055 Louisiana Avenue
Shreveport, Louisiana 71101
AC 318 425-7452

MODJESKI AND MASTERS

CONSULTING ENGINEERS

Bridges • Highways • Structures
Mass Transit • Special Foundations
Reports Inspections Design
Inspection of Construction

1055 St. Charles Ave., New Orleans, La. 70130
(504) 524-4344

3645 Williams Boulevard
Suite 206
Kenner, LA 70065-3464
504 443 3437



Engineers, Architects
and Planners

Ford, Bacon & Davis

INCORPORATED



♦ CONSULTING
♦ ENGINEERING
♦ PROCUREMENT
♦ CONSTRUCTION

100 YEARS OF ENGINEERED SOLUTIONS

MONROE
318/323-9000

EDISON
908/287-7800

ATLANTA
404/717-3830

HNTB

ARCHITECTS ENGINEERS PLANNERS

Comprehensive Services in

• Aviation • Construction Management
• Bridges and Structures • Environmental Services
• Civil Engineering • Transportation and Planning

HNTB CORPORATION
Califish Tower, Suite J-200, 100 St. James Street
Baton Rouge, LA 70802 (504) 346-0006



Metallon, Inc.

Metallurgical Testing Laboratories

2524 Sutherland
Houston, Texas 77023
(713) 923-7761

Mechanical Testing
Specimen Machining

Chemical Analysis
Metallographic Evaluation

DOMINGUE SZABO & ASSOCIATES, INCORPORATED

PROFESSIONAL ENGINEERS & LAND SURVEYORS

400 East Kaliste Saloom Road
Suite 1100
P.O. Box 52115
Lafayette, LA 70505-2115

(318) 232-5182
LA WATTS (800) 737-5182
FAX (318) 237-1132

SWL

SOUTHWESTERN
LABORATORIES

ENGINEERING & ENVIRONMENTAL SERVICES

Louisiana Locations
SHREVEPORT • MONROE
BATON ROUGE • ALEXANDRIA



DEMOPULOS & FERGUSON, INC.

CONSULTING ENGINEERS
SINCE 1953

• ENGINEERS • ARCHITECTS • PLANNERS

401 Edwards - Suite 1600 - Shreveport, Louisiana 71101-5530 - (318) 221-7117
2603 Augusta - Suite 880 - Houston, Texas 77057-5638 - (713) 783-7117

BURK-KLEINPETER, INC.

ENGINEERS ARCHITECTS PLANNERS ENVIRONMENTAL SCIENTISTS

• CIVIL	• PLANNING	• ENVIRONMENTAL ASSESSMENT
• STRUCTURAL	• TRANSPORTATION PLANNING	• SOLID WASTE
• MECHANICAL	• ARCHITECTURE	• HAZARDOUS WASTE
• HIGHWAY	• LANDSCAPE ARCHITECTURE	• AIR QUALITY
• DRAINAGE		• CONSTRUCTION MANAGEMENT
• PORT / MARINE FACILITIES		

4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119
TEL 504-486-5901 FAX 504-488-1714



GERAGHTY
& MILLER, INC.
Environmental Services

2900 West Fork Drive, Suite 540
Baton Rouge, Louisiana 70827
(504) 292-1004
Offices Located Nationwide

AREA CODE 318
433-0561

D. W. JESSEN & ASSOCIATES
CIVIL & CONSULTING ENGINEERS

440 KIRBY ST.
LAKE CHARLES, LA
D. WALTER JESSEN, JR.

CDM environmental engineers, scientists,
planners, & management consultants

JAMP DRESSER & McKEE INC.

445 North Causeway Boulevard, Suite 600
Metairie, Louisiana 70002
(504) 832-7272

236 Third Street, Suite 200
Baton Rouge, Louisiana 70801
504 387-3822

offices nationwide

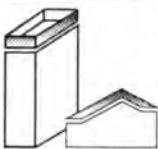
gregory c. rigamer & associates, inc.
professional consulting services

3230 W. Esplanade, Suite A
Metairie, LA 70002 (504) 836-6166

Michael W. Flores, P.E., P.L.S.
David C. Murla, P.E.
André DeHaan, P.E.
Gary Burt, P.L.S.



CIVIL ENGINEERS • PLANNERS • LAND SURVEYORS • CONSULTANTS



Jim D. Koontz & Associates, Inc.
P. O. Box 1054
Hobbs, New Mexico 88240
Ph 505 392 7676
Fx 505 392 7602

Jim D. Koontz, P.E.
President

JN JONES AND NEUSE, INC.
Environmental and Engineering Services

Preliminary Planning
Engineering Design
Facilities Permitting
Construction Management
Process and Ambient
Monitoring

Regulatory Compliance
Hydrogeologic and Geotechnical
Investigations
Risk Assessments
Remediation and Field Services
Environmental Litigation

11924 COURSEY BLVD., STE. A
BATON ROUGE, LOUISIANA 70816
PHONE: (504) 291-3055
FAX: (504) 291-4801

MOHR & ASSOCIATES, INC.
Consulting Civil Engineers & Land Surveyors

6025 Buncomb Road
Shreveport, Louisiana 71129
Telephone: 318/686-7190



JAMES D. MOHR
PROFESSIONAL ENGINEER
PROFESSIONAL LAND SURVEYOR

ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS



1700 GRAND CAILLOU RD.
HOUMA, LA 70363
(504) 876-6380
FAX 876-0521

1000 LEONIDAS ST.
NEW ORLEANS, LA 70178
(504) 866-1821
FAX 866-1781



CONSULTING ENGINEERS
SERVING THE PETRO-
CHEMICAL AND OIL & GAS
INDUSTRIES

OFFICE (504) 835-2577
FAX (504) 837-5924

3330 WEST ESPLANADE AVE. • SUITE 300 • METAIRIE, LOUISIANA 70002

**PETROLEUM ENGINEERS
INTERNATIONAL, INC.**

Drilling Completion & Workover Programs
Office and Field Supervision
Property Management • Total Operations
Turnkey Operations
Reservoir Engineers
Industry Training Schools

P.O. Box 52588
Lafayette, Louisiana 70505 (318) 233-5346



Cliff Knight, P.E.
A. J. McPhate, P.E.
Dan Bouillon, P.E.

Areas of Expertise:

Mechanical Troubleshooting
Failure Analysis
Vibration Analysis/Rotor Dynamics
Machine Design
Computational Fluid Dynamics
Finite Element Analysis
Stress Analysis/Pipe Stress
Pressure Vessel/Heat Exchanger Design
Heat Transfer
Risk Assessment

8126 One Calais Ave., Suite 1B • Baton Rouge, LA 70809
Phone: 1-800-737-0591 • (504) 767-0591 • FAX (504) 766-5765

EUSTIS ENGINEERING
GEOTECHNICAL ENGINEERS

CONSTRUCTION QUALITY CONTROL
AND MATERIALS TESTING
MONITORING WELL INSTALLATION
(504) 834-0157



3011 28TH STREET METAIRIE, LA 70002

MAHL AND ASSOCIATES, INC.
CONSULTING ENGINEERS

GEORGE J. MAHL, III, P.E.

800 HICKORY AVENUE, SUITE 100
HARAHAN, LOUISIANA 70123
(504) 737-8904
FAX (504) 738-7770



SERVING
CLIENTS
WORLDWIDE

Geotechnical/Materials Testing
Cone Penetrometer Testing
Environmental Consulting
Drilling, Monitor Wells
Marine Geosciences
Marine Surveys
LAKE CHARLES, LOUISIANA
(318) 439-1731



LANIER & ASSOCIATES
CONSULTING ENGINEERS, INC.

INDUSTRIAL • MARINE • ENVIRONMENTAL

NEW ORLEANS, LA

HOUSTON, TX

WOODWARD-CLYDE CONSULTANTS
engineers • geologists • environmental scientists

Recognized leaders in:

- earth & environmental sciences & engineering
- geotechnical engineering
- waste management
- environmental regulatory issues & applications

2822 O'Neal Lane • Baton Rouge, LA 70816 • (504) 751-1873



FRANK D. EDWARDS
BRANCH MANAGER/ SR. CHEMICAL ENGINEER

P. O. Box 83277
BATON ROUGE, LA 70884-3277
504/756-2555 • FAX 504/756-2562

LINFIELD, HUNTER AND JUNIUS, INC.
ENGINEERS AND ARCHITECTS

651 RICHARD STREET
NEW ORLEANS, LA 70130
(504) 581-1407

Poché Associates
LIMITED

CONSULTING ENGINEERS • ENERGY MANAGEMENT CONSULTANTS

224 Rue Dejean, Suite 200 Lafayette, LA 70508 (318) 237-6517

LA Lazenby & Associates, Inc.
CONSULTING ENGINEERS & LAND SURVEYORS

JERRY G. LAZENBY, P.E., P.L.S.
FOY B. GADBERRY, P.E.
PAUL D. FRYER, P.E.

2000 North 7th Street • P. O. Box 728 • West Monroe, LA 71291-0728 • 318/287-2710
FAX 318/287-2718

SOIL TESTING ENGINEERS

GEOTECHNICAL
SOIL BORINGS
LABORATORY TESTS
ENGINEERING REPORTS

GEOTECHNICAL CONSULTANTS

ENVIRONMENTAL
GEOPHYSCAL
GROUNDWATER MONITORING
SUBSURFACE PROTECTION

QUALITY CONTROL
FILL INSPECTION
MATERIAL TESTING
FIELD LOAD TESTS

316 HIGHLANDIA DR.
4100 LOUISIANA AVE.
1350 LIVINGSTON LANE

BATON ROUGE, LA
LAKE CHARLES
JACKSON, MS

504-752-4790
318-474-1340
601-982-0746

**BADEAUX &
ASSOCIATES
INCORPORATED**
CONSULTING ENGINEERS
STRUCTURAL/CIVIL

115 EAST SIXTH STREET (504) 447-2317
P. O. BOX 1056 THIBODAUX, LA 70302

J. Alvin Badeaux, P.E.
President



Civil/Structural Engineers

9229 Bluebonnet Boulevard
Baton Rouge, LA 70810
504•765•7400
FAX 504•765•7244

One Of These Concrete Pipelines is Much Better Than The Other. . . .



Manufacturing Date: 1981



Manufacturing Date: 1992

. . . . But only a petrographer can tell which.

Of course, the newer pipeline will not withstand more pressure, or support greater external loads. And the same size new pipe won't convey more water than the older pipe.

So what's the difference?

Refinements in GHA's pipe mortar coating application techniques have created much tougher, stronger, and less permeable coatings than the pipe coatings we produced just a few years ago, (and still without any admixtures!)

Petrography : The description and systematic classification of rocks.

The independent testing and consulting firm, Wiss, Janney, Elstner Associates, Inc. (*petrographers*) proved the new mortar coatings were twice as strong and roughly 20 times less permeable to water-borne chlorides. That means the coating can withstand even more abuse without damage prior to installation. And the new pipe coating is many times more resistant to corrosion caused by a high chloride and oxygen-rich environment.

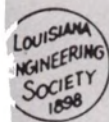
In most soil environments, concrete pressure pipe doesn't need this extra level of performance. Usually you can bury it, forget it, let your grandkids dig it up years later and still find no signs of corrosion. But it's nice to know you now get this terrific new level of performance in every GHA concrete pipe you buy, built-in at no extra cost to you, whether your project needs it or not.



Gifford-Hill-American, Inc.

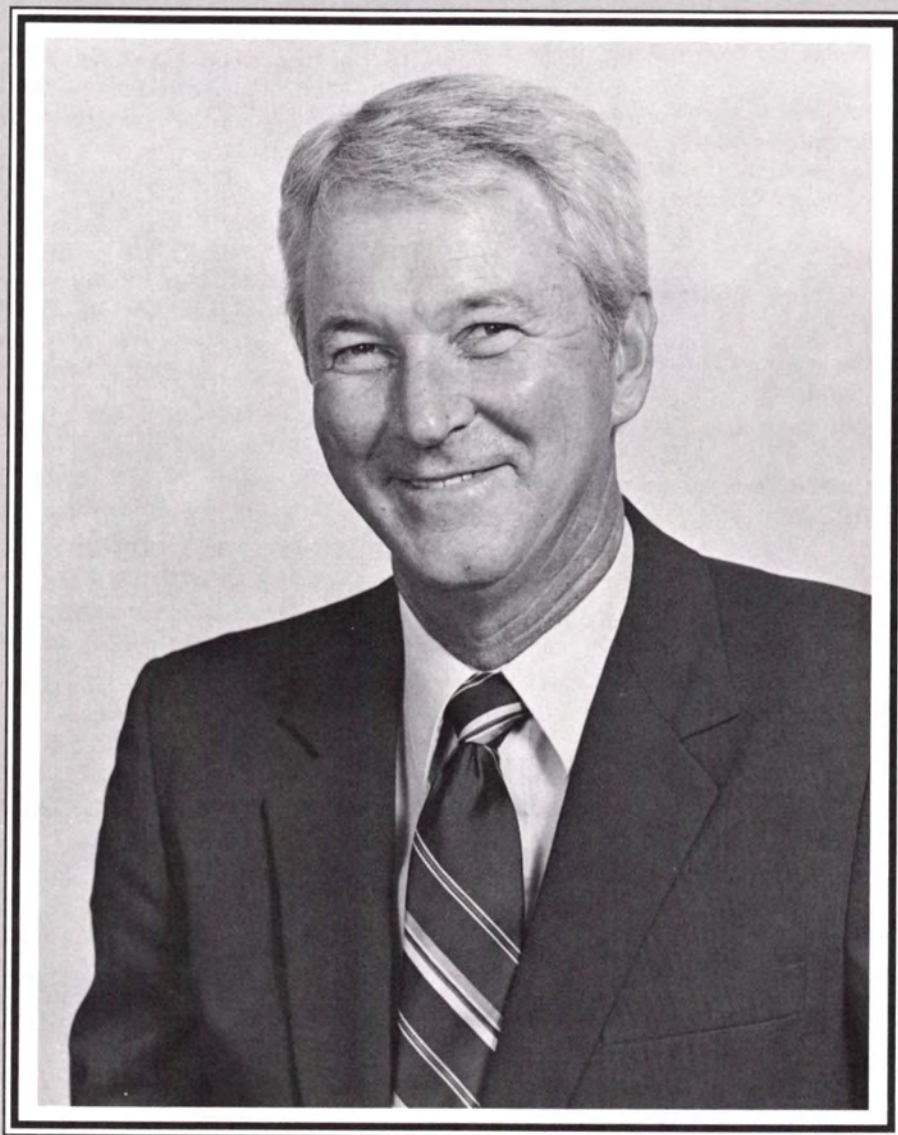
MANUFACTURER OF CONCRETE PRESSURE PIPE

P.O. BOX 569470 / DALLAS, TX 75356-9470 / 214-262-3600



OCTOBER, 1994

LOUISIANA ENGINEER



LARRY A. MCKEE, P.E./P.L.S.

Chairman 1995

Louisiana State Board of Registration for Professional Engineers
and Land Surveyors

Give a Colleague The NSPE Advantage

1994-95 NSPE State Membership Recruitment Program

When you participate in the 1994-95 NSPE State Membership Recruitment Program, you help enhance the professional lives of your colleagues as well as help strengthen your professional society.

Your personal experience as an NSPE member is very important in recruiting new members, since a prospective member is more likely to join the Society because of your personal recommendation as a trusted friend and colleague.

When you become a new-member sponsor, NSPE will recognize and reward your individual achievements. This is our thanks to you for helping us serve you and the engineering profession now and in the future.

Sponsor Recognition

1. You will be honored as a *member of the President's Society of Sponsors*.
2. Your achievements as a new-member sponsor will be rewarded and recognized.
3. You can also gain distinction as a *member of the President's Membership Advisory Council* by recruiting 10 or more new NSPE members from July 1, 1994 through March 31, 1995.

Sponsor Rewards

1. Personal gratification from enhancing the professional life of a colleague.
2. Satisfaction in knowing your efforts are helping to strengthen your State Society, NSPE, and the engineering profession.
3. The opportunity to make new friends and business contacts while gaining new leadership, negotiating and interpersonal skills.

4. Recruit 1 or 2 members and receive . . .

- Recognition as a *member of the President's Society of Sponsors*.

Recruit 3 members and also receive . . .

- An NSPE Lapel Pin.

Recruit 5 members and also receive . . .

- An exclusive NSPE Pen and Pencil Set.

Recruit 10 members and also receive . . .

- An NSPE Executive Business Portfolio and Special Distinction as a *member of the President's Membership Advisory Council*.

Top Sponsors

THE TOP SPONSOR WHO RECRUITS THE MOST NEW MEMBERS FROM JULY 1, 1994-MARCH 31, 1995 WILL ALSO RECEIVE . . .

- A \$750 Gift Check, courtesy of MBNA AMERICA BANK, N.A., issuer of the NSPE MasterCard and Visa.

THE FIRST RUNNER-UP TO THE TOP SPONSOR WILL ALSO RECEIVE . . .

- A \$500 Gift Check, courtesy of MBNA AMERICA BANK, N.A., issuer of the NSPE MasterCard and Visa.

THE SECOND RUNNER-UP TO THE TOP SPONSOR WILL ALSO RECEIVE . . .

- A \$250 Gift Check, courtesy of MBNA AMERICA BANK, N.A., issuer of the NSPE MasterCard and Visa.

Get Involved Today

To get involved right away, contact either your Chapter President, your State Society office or NSPE at (703) 684-2810 and ask to be sent a Membership Recruitment Kit. Your active involvement in this membership program for 1994-95 is greatly appreciated.

EXECUTIVE DIRECTOR

The National Society of Professional Engineers (NSPE) with a staff of 70 and budget of \$6 million, is seeking a New Executive Director to lead and motivate staff, build membership, participate in strategic planning and be a spokesperson on a broad range of selected engineering issues.

Founded in 1934, NSPE is a not-for-profit organization representing all engineering disciplines, specialties and types of employment dealing with professional aspects of engineering. It is composed of 54 State Professional Engineering societies and over 500 local chapters and over 70,000 members. It is headquartered in Alexandria, Virginia.

Requirements include senior level management experience, expertise in leading and motivating staff, excellent oral and written communication skills, budget development and oversight experience. Desired qualifications include knowledge of the engineering profession and industry and engineering and/or association management experience. A Professional Engineer registration is desired but not required. A competitive compensation package is offered for this career position.

NSPE is an equal opportunity employer.

To apply, please send letter of interest and Resume to NSPE Executive Search Committee, Post Office Box 12270, Norfolk, Virginia 23541-0270.

LOUISIANA ENGINEER



About the Cover

Features Larry A. McKee, P.E./P.L.S., 1995 Chairman of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors

In This Issue

Presidential Privilege	4
Guest Forum	5
Calendar of Events	5
The Spec Sheet	6
1994 NSPE Annual Meeting Highlights	8
Notre Metier	11
The Washington Bulletin	12
Engineers in Government	14
The Society Reports	15
McNeese State University News	16
New Registrants of the State Board	17
Welcome New Members	18
The State Legislative Bulletin	19

(Please note: Receipt of Louisiana Engineer Magazine does not necessarily mean that you are registered with the Louisiana State Board of Registration for Professional Engineers and Land Surveyors, or that you are a member of the Louisiana Engineering Society.)



STATE OF LOUISIANA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

1055 ST. CHARLES AVE., SUITE 415
NEW ORLEANS, LA 70130-3997
(504) 568-8450
FAX - 568-8256

Office Hours
Monday thru Friday
8:00 am until 4:00 pm

Chairman
Larry A. McKee, P.E./P.L.S.

Vice Chairman
Morris P. Hebert, P.L.S.

Secretary
Charles L. McDonald, P.L.S.

Other Members
Jorge M. Ferrer, P.E.
Lawrence Mann, Jr., P.E.
Vernon F. Meyer, P.E./P.L.S.
Merlin A. Pistorius, P.E./P.L.S.
Richard M. Primeaux, P.E./P.L.S.
Richard E. Ruckstuhl, P.E./P.L.S.
Sam L. Sullivan, Jr., P.E.
William J. Thevenote, Jr., P.E.

Executive Secretary
Paul L. Landry, P.E.

PUBLICATIONS COMMITTEE

Chairman
Allison J. P. Launey, P.E.
Managing Editor
Leta G. Bueto
Publishing Consultant
Printing Incorporated



LOUISIANA ENGINEERING SOCIETY
P.O. BOX 2683, BATON ROUGE, LA 70821 TELEPHONE (504) 344-4318
STREET ADDRESS: 1213 NICHOLSON DR., BATON ROUGE, LA

LES OFFICERS AND BOARD

President
Edgar P. Benoit, P.E.
First Vice President
Carl A. Jakob, P.E.
Second Vice President
Robert A. Brossette, P.E.
Secretary-Treasurer
Ronald J. Rodi, P.E.

NSPE DIRECTORS
James L. Meyer, P.E.
Edgar P. Benoit, P.E.

STATE DIRECTORS
John J. Plaisance, II, P.E.
Ann Forte Trappey, P.E.
James N. Moore, P.E.
Theodore H. Thompson, P.E.

PAST PRESIDENT
Dale T. Hunn, P.E.

CHAPTER PRESIDENTS
Alexandria
Donald W. Clayton, P.E.
Baton Rouge
Steve M. Boudreaux, P.E.

Bayou
Kenneth W. Smith, P.E.

Lafayette
Susan H. Richard, P.E.

Lake Charles
Ronald R. Dupont, P.E.

Monroe
John H. Eason, P.E.

New Orleans
Lonnie G. Bassett, P.E.

Shreveport
Ruth L. Baker, P.E.

PRACTICE DIVISIONS
Construction
Roger D. Melancon, P.E.

Education
Bobby E. Price, Ph.D., P.E.
Government
Christopher D. Abadie, P.E.
Industry
Harold P. LeRay, P.E.
Private Practice
Foy B. Gadberry, P.E.

COMMITTEE CHAIRPERSONS
Constitution and Bylaws
Frederick J. Trahan, P.E.
Engineering Education
R.J. Yakupzack, P.E.

Young Engineers
Angela L. DeSoto, E.I.T.
Ethics and Professional Conduct
Foy B. Gadberry, P.E.

Honors and Awards
Glynn P. Gautreau, P.E.

Inter-Society Relations
John S. Bruce, P.E.

Legislative
Raymond G. Areaux, P.E.

Membership
Theodore H. Thompson, P.E.

Public Relations
John J. Plaisance, II, P.E.

Scholarship
Keith M. Warden, E.I.T.

Long-Range Planning
Robert A. Brossette, P.E.

Liaison Committee/State Board of Registration
James L. Meyer, P.E.

Louisiana Engineering Foundation
Charles L. Eustis, P.E.

EXECUTIVE DIRECTOR
Leta G. Bueto

The LOUISIANA ENGINEER is the official publication of the Louisiana Engineering Society. The LOUISIANA ENGINEER is the journal of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors. The magazine is published in February, April, June, August, October and December. Subscription \$2.17 per year for engineers registered in Louisiana and non-registered members of the Louisiana Engineering Society. Two dollars of each LES member's annual dues is set aside for six issues of the LOUISIANA ENGINEER. Second class postage paid at Baton Rouge, La. The Louisiana Engineering Society and the Louisiana State Board of Registration for Professional Engineers and Land Surveyors do not guarantee the accuracy of statements made or necessarily concur with opinions expressed in this publication. ISSN: (0024-6794)

POSTMASTER: Please send Change of Address Forms to LOUISIANA ENGINEERING SOCIETY, P. O. Box 2683, Baton Rouge, La. 70821. Telephone 504/344-4318, FAX 504/344-4319; 1213 Nicholson Drive, Baton Rouge, La.



Edgar P. Benoit, P.E.
President
Louisiana Engineering
Society

Presidential Privilege

YES ? ? ? NO
Mandatory
Continuing Professional Competency
{Yes or No}

Decision Time

On November 4, 1994 the LES Board of Direction will be voting on the issue of Continuing Professional Competency (CPC). Should professional engineers be required to complete specific educational requirements each year to keep their registration?

"Should continuing education be mandatory for professional engineers?"

This article will try to summarize the issue and list some of the pros and cons. A survey form is provided below to express your thoughts and opinions. Your best source for information on this complex issue, however, is your local LES chapter meeting.

Model Rule

A model rule on CPC has been endorsed by NSPE. Some of the highlights of the model rule will be helpful in understanding this issue. The model requires engineers to earn 15 professional development hours (PDHs) per year. One PDH is equivalent to one hour of instruction. Other conversions which may be helpful in understanding the equivalence is 1 CEU equals 10 PDHs. Another equation has 1 semester course equal to 45 PDHs. The 15 hours of educational training could be received through correspondence, television, video tape, workshops, teaching, paper publication, or active professional society participation. At the time of your license renewal, you would report successful completion of the required PDHs. The Board of Registration for professional engineers under the model could audit any engineer.

Other States

Currently, four states require CPCs for engineers. Alabama and Iowa have active programs, with Michigan and New Mexico having the law but are developing their specifics of the program.

Enabling Legislation

One of the terms that is often mentioned in connection with CPC is "enabling legislation" or some time called "enabling authority". Rather than mandating a CPC requirement in the state law, the law would grant the Engineering Licensing Board the authority to establish CPC requirements at its discretion. Ten registration boards have such authority over engineers. Passing such a law is considered a first step toward mandatory CPC.

"Enabling legislation would grant the power of mandatory CPC to the Registration Board."

Land Surveyors

The land surveyors in Louisiana have proposed that the Louisiana Legislature pass enabling legislation. Some of the officers from both organizations have met along with other engineer groups to discuss our position on such a proposal.

"The land surveyors requested LES's position before moving ahead with the proposed enabling legislation."

Hence, the voting on November 4, by the LES Board of Direction will probably center more on, should LES support the land surveyors' push for enabling legislation or oppose it? Details of the specific rules governing the process would be debated at a future date.

The Pros

There have been many fine articles written about the pros and cons of this issue in recent NSPE magazines. A summary of some of those points follow:

1. The engineering profession is behind the curve when compared to other professions. For example, 50 states require accountants to earn CPCs, 40 states require lawyers, 23 states require physicians, and 3 states require architects.
2. Voluntary CPC does not work. Past indications show only 10% voluntarily participate in CPC.
3. If we don't do it ourselves, someone else will do it for us.
4. Mandatory CPC is the way to go if we're truly a learned profession that cares more about the public's interest than our own.
5. Every accelerating technology advancement in our profession requires CPC.

The Cons

1. The public's confidence in engineers will not be enhanced with mandatory CPC. For example, look at the public's confidence towards attorneys.
2. There have been few or no complaints on engineers from the public because of mistakes done due to lack of knowledge. Therefore, there is no problem fix as far as engineers lacking continuing education.
3. The few engineers that do not keep up with technology get left behind in their jobs. In private practice, for example, they lose business and in industry they may lose their job.
4. Taking 15 hours of educational courses has no correlation with competency.
5. Could the use of the word competency lead to retesting in the future.
6. Historical numbers has shown a reduction in the number of members and licensees because of mandatory CPC.
7. Why the big rush? The public is not jumping up and calling for this now.
8. A true profession does not need to be required to continue with its education.

Continued on page 13

Guest Forum



Larry A. McKee, P.E./P.L.S.
Chairman 1995
Louisiana State Board of
Registration for Professional
Engineers and Land
Surveyors

I welcome this opportunity to communicate with my fellow engineers, surveyors, and all registrants of the State Board of Registration for Professional Engineers and Land Surveyors. I would like to share with you some of my experiences, some Board actions and some views of the engineering and surveying professions.

It has indeed been an honor to serve on the Board. As I enter the last year of my six-year term, I realize how rewarding and gratifying this service has been. My rookie year on the Board was very challenging and definitely a year of learning. I was amazed at the large number of applications for registration as EIT's, PE's, LSIT's, and PLS's, being processed by staff and reviewed by Board members. Also the number of complaints received by the Board was much greater than I ever anticipated. Although very few of the complaints result in disciplinary action, all must be given a proper and fair evaluation by staff and Board members. Also, I served as a member of the Professional Land Surveying Committee my first year. In this capacity, I was able to participate in oral examinations as well as application review of PLS and LSIT candidates. This was definitely a learning experience and very helpful for future work on the Board.

In subsequent years, in addition to reviewing applications and complaints, I had the honor of chairing an Ad Hoc Committee that considered a prohibition against price quotation by registrants as well as an Ad Hoc Committee that considered single registration as a professional engineer in lieu of specific-discipline registration. I also chaired the Industrial Advisory Committee and co-chaired the Architect's Board and Engineer's Board Liaison Committee.

During my time of service on the Board, the registration law has been changed to permit land surveying members to vote on all matters coming before the Board (this was a much needed and very welcomed change); to add a surveying member to the Board; and to institute a modest fee increase. Rules have been added to include two additional engineering disciplines for registration and to clarify language in Section 37:701(C) which addresses industrial exemption.

The Board also changed its domicile from the City of New Orleans to the City of Baton Rouge.

The Board during my term as Chairman, will be locating new office space in Baton Rouge; evaluating naval architecture-marine engineering as a possible additional discipline for registration; and evaluating the current and alternate methods of communicating with registrants of the Board. We will also begin dialogue on continuing professional competence.

I think the most rewarding experience of serving on the Board is the opportunity to meet and talk with engineers and land surveyors from throughout the state and the nation. This exposure to the engineering and land surveying professions has renewed and fortified my belief that these two professions are the greatest on earth.

The Louisiana State Board of Registration for Professional Engineers and Land Surveyors' sole purpose for being is to protect the general public by enforcing the registration law. The registrants of the Board likewise have a responsibility to protect and look after the interest of the public. I believe that the engineering and surveying professions have fulfilled this responsibility very ably and I know we will continue to do so in the future.

However, for the professions to continue to serve the public well and retain the respect we enjoy, we must not relax the values or standards of technical and ethical practices that have been passed on to us by our predecessors. In fact we must, and I know we will, continue to elevate all aspects of our professions.

As both a professional engineer and a professional land surveyor, I can truthfully say that I am very proud to be included in the ranks of both professional communities. *LE*

CALENDAR OF EVENTS

We invite all technical and professional organizations to submit their meeting dates for publication in the *Louisiana Engineer* to: Editor, P. O. Box 2683, Baton Rouge, LA 70821.

October 1994

- 20-22 ACEC Fall Membership Conference
Billings, MT
28-29 NCEES Written Exams

November 1994

- 4 Honors and Awards Selection Meeting
Shreveport, LA
4 LES Board of Direction Meeting
Shreveport, LA
7-8 State Board of Registration Meeting
New Orleans, LA

January 1995

- 6 LES Board of Direction Meeting
New Orleans, LA
13 Professional Land Surveyor, Oral Exams
14-21 NSPE Winter Meeting, Hyatt Regency
Houston, TX
23-24 State Board of Registration Meeting
New Orleans, LA

March 1995

- 4 State MATHCOUNTS Competition
Holiday Inn Holidome
Baton Rouge, LA

The Spec Sheet

Small Firm Coalition Creates Market for Liability Insurance

In the four short years the Small Firm Coalition (SFC) has been in existence, it has managed to create a new market for liability insurance.

Not long ago, insurance companies were extremely reluctant to insure small firms against liability claims. The SFC, by pooling several firms, convinced Kirke-Van Orsdel, Inc. (KVI) to create an insurance package for its smaller firms. The pooling arrangement helped to reduce the risks to the insurance company in providing the coverage, while enabling small firms to get the insurance required to participate in a wide assortment of design projects.

Currently, the liability insurance program has been approved for sale in 33 states and the District of Columbia. But perhaps more importantly, the SFC has proven that there is indeed a market for small firm liability insurance coverage and its actions have encouraged other insurance carriers to enter the competition. The result is that small firms now have a choice in insurance programs, whereas, just a few years ago, there was not only no choice, but no insurance coverage at all. For more information about small firm insurance coverage, contact Ed Bajer at ACEC.

The 1995 ACEC Convention — CEC/L Gears Up . . .

The CEC/L Host Committee has been hard at work on its own and with the meetings and conventions staff of the American Consulting Engineers Council (ACEC) for several months to help plan special events in connection with the national organization's upcoming annual convention in May of 1995 when member engineers, their spouses and families from all over the United States will converge on New Orleans for several days of business seminars, a three-day Board of Directors meeting, and a whole lot of fun! The meeting will be headquartered at the Sheraton Hotel, just outside the historic French Quarter.

CEC/L, the host Member Organization, is responsible for hosting several events during the convention including a tour and luncheon for the spouses of the ACEC Executive Committee (national officers), a dinner for the Executive Committee, spouses and ACEC staff, and to help plan the convention's highlight, Local Color Night, an event which is designed to reflect the unique flavor and charm of the locality. As always, there will be plenary, business related seminars and coalition meetings, legal forums, along with a variety of special daily activities for the spouses. Pre-and post-convention tours and trips are also being planned and will be offered to the ACEC membership as optional functions.

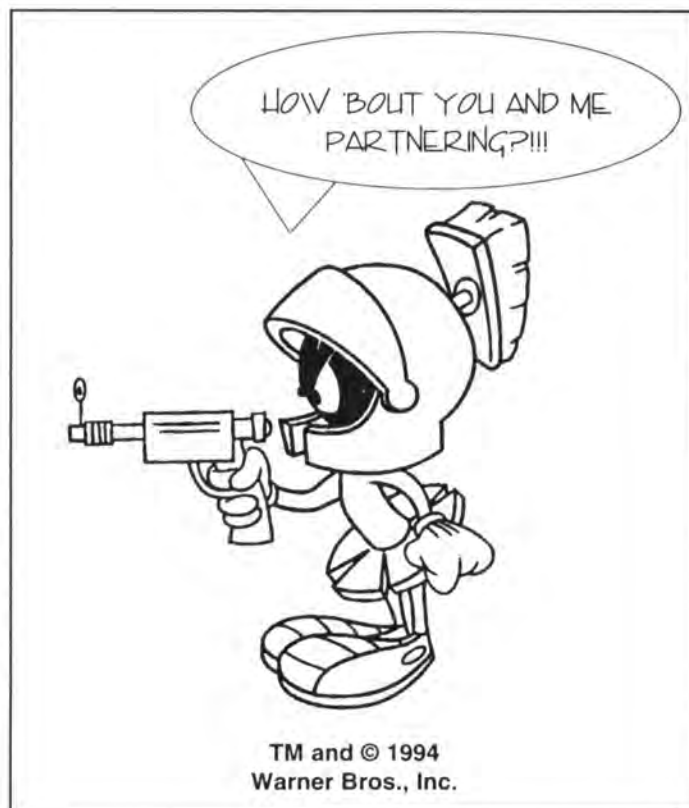
The host committee is being chaired by Frank and Peggy Nicoladis of Metairie. Other members include Ralph and Sandra Junius, Anthony and Kay Mumphrey, Richard and Linda Van Wootten, Chuck and Pat Prewitt, and David and Patsy Kanter, all of

New Orleans, Larry and B.J. McKee of Baton Rouge, and CEC/L's Executive Director, Warren Wilder, and his wife, Sarah. The ACEC membership will be receiving information about this memorable meeting toward the end of this year.

Winning the Battle . . . Winning the War

The August 5, 1994 issue of *The Last Word*, the newsletter of the American Consulting Engineers Council, reported a victory in the fight for the use of Qualifications-Based Selection for design professional services at the federal level.

After discussions with ACEC, the U.S. Department of Energy (DOE) has agreed to amend and reissue a recent solicitation that did not use Qualifications-Based Selection (QBS) procedures prescribed in the Brooks A/E Act. In the original solicitation, DOE sought to purchase building energy efficiency audits and screenings for potential water conservation and renewable energy projects by means of calls against Blanket Purchase Agreements (BPAs). Competition for the project was to be based on technical and price quotations. ACEC vigorously objected to the use of price quotations among the selection criteria, and DOE's Golden Field Office agreed to resolicit the contract based on demonstrated competence. (Chalk up one for the good guys!)





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



What is Partnering?

The Partnering concept is not a new way of doing business—some have always conducted themselves in this manner. It is going back to the way people use to do business when a person's word was their bond and people accepted responsibility. Partnering is not a contract, but a recognition that every contract includes an implied covenant of good faith.

While the contract establishes the legal relationships, the Partnering process attempts to establish working relationships among the parties (stakeholders) through a mutually-developed, formal strategy of commitment and communication. It attempts to create an environment where trust and teamwork prevent disputes, foster a cooperative bond to everyone's benefit, and facilitate the completion of a successful project.

For the most effective results, stakeholders should conduct a Partnering workshop, ideally at the early stages of the contract. The sole agenda of the workshop is to establish and begin implementing the partnering process. This forum produces the opportunity to initiate the key elements of Partnering.

The key elements of Partnering are

- **Commitment** - Commitment to Partnering must come from top management. The jointly-developed Partnership charter is not a contract, but a symbol of commitment.
- **Equity** - All stakeholders' interests are considered in creating mutual goals and there is commitment to satisfying each stakeholder's requirements for a successful project by utilizing win/win thinking.
- **Trust** - Teamwork is not possible where there is cynicism about others' motives. Through the development of personal

relationships and communication about each stakeholder's risks and goals, there is better understanding. With understanding comes trust and with trust comes the possibility for a synergistic relationship.

- **Development of Mutual Goals/Objectives** - At a Partnering workshop the stakeholders identify all respective goals for the project in which their interests overlap. These jointly-developed and mutually agreed to goals may include achieving value engineering savings, meeting the financial goals of each party, limiting cost growth, limiting review periods for contract submittals, early completion, no lost time because of injuries, minimizing paperwork generated for the purpose of case building or posturing, no litigation, or other goals specific to the nature of the project.
- **Implementation** - Stakeholders together develop strategies for implementing their mutual goals and the mechanisms for solving problems.
- **Continuous Evaluation** - In order to ensure implementation, the stakeholders agree to a plan for periodic joint evaluation based on the mutually agreed to goals—to ensure the plan is proceeding as intended and that all stakeholders are carrying their share of the load.
- **Timely Responsiveness** - Timely communication and decision making not only save money, but also can keep a problem from growing into a dispute. In the Partnering workshop the stakeholders develop mechanisms for encouraging rapid issue resolution, including the escalation of unresolved issues to the next level of management. *LE*



SERVING DESIGN PROFESSIONALS IN PRIVATE PRACTICE

PROFESSIONAL LIABILITY INSURANCE

LOSS PREVENTION - RISK MANAGEMENT ASSISTANCE

ALEXANDER & SANDERS INSURANCE

9613 BROOKLINE • BATON ROUGE • 70809 • 504/924-1371

1994 NSPE Annual Meeting Highlights

The NSPE Board of Directors met July 14-16 at the Society's 1994 Annual Meeting in Kansas City, Missouri. Highlights of the Board's actions follow.

Actions of the Board

Reorganization of NSPE

- Responding to societal and demographic changes affecting engineering and NSPE, the NSPE Reorganization Task Force recommended substantive changes in Society operations and governance. The new vision, aimed at positioning NSPE to meet the needs and expectations of current and future members, will now be discussed at chapter, state society, and national meetings throughout the new fiscal year.

The task force considered NSPE's new focus on PE issues, stagnant membership, and the Society's large and complex bureaucracy in proposing a plan the task force says would offer better value to members by reducing complexity and redundancy, allowing NSPE to respond quickly to member needs, and creating an entrepreneurial culture within the Society.

The new, leaner NSPE would offer core services at a reduced dues level. Such services would include a publication, government relations, licensing advocacy, youth development, and Society governance. Additional services in response to specific member needs would have to stand on their own feet as self-sustaining; if members did not want to pay for a particular service, then the service would no longer be offered. The Society would become a seamless organization, without an elaborate committee structure and separate practice divisions. However, it would maintain a practice perspective through proposed Practice Forums arising from the proposed new regional structure.

Under the task force proposal, the current six geographic regions would become ten. Through grass-roots involvement at regional meetings, each region would elect a vice president (who would have no program responsibility), along with a representative from each of the five practice areas—construction, education, government, industry, and private practice. The 50 regional practice representatives would meet at national Practice Forums to review programs, formulate new grass-roots ideas, and propose project development teams. Five national practice-area representatives would be elected at these meetings.

These five practice representatives; the Society's president, president-elect, and immediate past president; and the ten regional vice presidents would form an NSPE Executive Board. Replacing today's large Board of Directors, the new board would set overall direction for the Society and allocate resources. Program conception and oversight would come from the teams formed through the Practice Forums. Standing

committees as they are currently known would no longer exist. As product and program needs arise, project teams of volunteers and staff would be created. When these projects are completed, the teams would be disbanded.

Market considerations on what particular services NSPE should offer various member segments would include the practice areas in which members work, the members' career stages, and the type of service required—for example, licensing advocacy, government relations activities, career development offerings, education services, and community leadership opportunities.

Additional ideas suggested by the Reorganization Task Force include a general membership meeting, a general assembly, and optional membership in the chapter, state, and national societies.

Registration, Qualifications for Practice

- The Board endorsed the report of the Task Force on Engineering Education Assessment Tools, which advocated major change in the content and format of the Fundamentals of Engineering (FE) exam. The task force—made up of representatives from the Accreditation Board for Engineering and Technology, the American Society for Engineering Education, the Engineering Deans Council, the National Council of Examiners for Engineering and Surveying, and NSPE—called for the development of a new Engineering Competence Assessment exam to serve as the first rung on an engineering student's climb to licensure and could potentially be used by engineering schools as part of an overall educational evaluation process. The proposed exam would contain two modules. The first would cover education received in the lower division, common to all disciplines. The second would be discipline specific, governing the type of material encountered in the upper division.
- A new inter-society task force has been proposed by NSPE to evaluate the current U.S. model for educating and licensing engineers, especially the linkage between education and licensing, and make appropriate recommendations for change. The task force will be composed of members from the Accreditation Board for Engineering and Technology, the American Society for Engineering Education, the Engineering Deans Council, the National Council of Examiners for Engineering and Surveying, and NSPE.
- Under a newly adopted resolution from the South Carolina Society of Professional Engineers, NSPE will, upon request, support states that wish to enact enabling legislation that will allow state engineering boards to control the establishment of continuing professional competency requirements. The NSPE Board agreed that by putting the power to develop requirements in the hands of state boards, the engineering profession

can retain more control over its own destiny and can see to it that states maintain uniform requirements modeled after the NCEES model rules on CPC.

- The Board passed a new policy on interprofessional relations stating that "any license or certification process enacted or developed for other professionals should contain safeguards preventing that profession from engaging in the practice of engineering." The policy also calls on federal, state, and local governments not to require licensed PEs to become "certified" in specialty areas as a condition of service or employment.
- The Board established the Legal Pursuit Fund as approved in Tucson and ratified an action plan as well as operating and professional policies for the effort. If fund raising under the plan is successful, the Legal Pursuit Fund will allow NSPE to provide financial support to states that request aid in legal actions aimed at halting the unlawful practice of engineering. The Board also provided \$50,000 of seed money for the fund to come out of the surplus from the 1993-94 fiscal year.
- The NSPE Accreditation Review Task Force, whose report the Board endorsed, called on ABET to ensure that revised criteria not weaken its commitment to engineering design as an integral part of an accredited program. The task force also urged that a balanced mix of educators and practitioners be involved in the accreditation process. NSPE is providing active input into a series of ABET workshops dealing with accreditation.
- The Board passed a resolution from the Washington Society of Professional Engineers that calls on ABET "to make the FE examination prior to graduation a part of the accreditation criteria."
- A resolution from the Florida Engineering Society, passed by the Board, calls for NSPE representatives on the ABET Board of Directors and the Engineering Accreditation Commission to promote the need for additional exposure to ethical concepts, including course work, within the basic engineering programs accredited by ABET.
- The Board ratified an interim statement from the NAFTA Forum on Engineering Registration and Practice, which is composed of engineering representatives from the U.S., Canada, and Mexico. NSPE has seats on the U.S. Council for International Engineering Practice, the American negotiating group. The forum is developing recommendations on granting temporary licenses to engineers to do cross-border work in the three NAFTA nations. The recommendations are due by the end of 1995.
- A transition team for the National Institute for Engineering Ethics, which is looking into options on how the institute might continue operations as an organization separate from NSPE, presented its report to the Board. The possibility of affiliating NIEE with other engineering societies has been discussed.

Government Relations

- Under a new policy, NSPE put itself on record as opposing unfunded federal mandates, unless "significant and imminent harm to the public health, safety, and welfare can be documented." The policy notes that state and local governments'

budgets already are strained and that raising additional tax revenues to cover unfunded mandates from Washington puts "inappropriate constraints" on local policymakers' setting their own priorities. Currently the Senate is considering eight bills that include unfunded mandates.

- Aiming to ensure a viable NSPE political actions program for the future, the Society's Board of Directors voted in concept to raise member dues by one dollar, to be earmarked for the Legislative Educational Fund, and to revise management of the NSPE Political Action Committee. Due to Society notification rules, the increase cannot take effect until approval by the Board in July 1995.

The action came as the Board endorsed the report from the NSPE-PAC Task Force, which had argued that the PAC was an integral part of NSPE government relations activities and that without it, the Society would have a much more difficult time making its voice heard on Capitol Hill. NSPE-PAC supporters have long argued that the Society's PAC does not attempt to buy votes—as some PAC critics contend—but that it provides access to key members of Congress to address issues affecting professional engineers.

NSPE-PAC contributions from members have declined steadily over the years, falling from a high of \$350,611 in the 1980-82 election cycle to a projected \$42,000 for 1993-94. The PAC Task Force had concluded that for the PAC to be viable, it would need \$80,000 for direct contributions to candidates in each two-year election cycle. Some \$100,000 in direct and staff support would be needed each administrative year to raise such a contributions figure. By law, funds raised through a dues increase cannot be used for direct contributions to candidates.

Support for the PAC has generally been strong from the NSPE Board, while general member views have been ambivalent. In a recent survey that asked Society members whether NSPE should continue to operate a PAC, votes were almost equally divided among "yes," "no," and "no opinion."

Membership

- In response to a resolution from the Ohio Society of Professional Engineers calling on NSPE to look into the causes of declining Society membership and to consider pilot membership programs, NSPE will form a task force headed by Rick Toole, chairman of the NSPE Membership Committee. The group will identify several states societies—large and small—to undertake a systematic examination of such issues as customer needs, satisfaction drivers, measurable levels of performance, and member tracking mechanisms. The goal is to launch two integrated pilot programs that will provide guidance for revamping current organizational, membership, and dues structures, as well as member programs, services, benefits, and delivery processes, to significantly increase recruitment and retention of NSPE members.
- In addressing the proposed new Senior Engineer Member status, the Board deferred finalizing the new policy to next July. Until the new status is implemented, eligible members have the opportunity to apply for Retired and Life Member status. As the proposed policy stands now, members would become eligible for Senior Engineer status if they are at least 65 years

of age and have paid dues for 25 years above the student grade. Dues would be one half the full member dues. Eligible members, their chapters, and their state societies would be able to submit the application for Senior Engineer status. Those members holding Life Member status would be given the option to discontinue receiving national publications, to transfer to the Senior Engineer status, or to retain their status as is. No one would be accepted into Life and Retired Member status once the policy takes effect. Retired members would have the option of changing to Senior Engineer status if they meet the eligibility requirements.

The Senior Engineer policy has been referred to the Membership Committee for further review.

Governance

- The Board approved a balance budget of \$5.941 million for 1994-95. The budget includes monies for the upcoming purchase of a new computer system for NSPE Headquarters; finding a replacement for Executive Director Donald Weinert, who will be retiring in September 1995; and for mailing the NSPE ballot, which will also provide an opportunity to generate sales for the NSPE Income and Salary Survey and to raise funds for the NSPE-PAC, solicitations that have been successful in the past. Also, under the approved budget, Practice Divisions now pay a part of the costs incurred by the NSPE meeting planner in arranging Practice Division meetings and Outstanding Engineering Achievement Awards will no longer be awarded at the national level.
- A new Continuing Professional Competency Review Committee to oversee the activities of NSPE's Professional Development Registry for Engineers and Surveyors was created by the Board. The registry—formerly the National Professional Development Registry for Engineers—will offer engineering professionals a newly expanded program to track their continuing education credits. The committee will review the registry's course approval process and look into courses and sponsors for accreditation and registration.
- A resolution from the Florida Engineering Society seeking to add the words "to protect the health, safety, and welfare of the public we serve" to the NSPE mission statement was not accepted by the Board, which noted that protecting the public is already inherent in the mission's "to promote the ethical, competent, and licensed practice of engineering," given the NSPE Code of Ethics and the intent of state licensing laws.
- The Board voted to formalize the current practice of staggered two-year terms for regional vice presidents so that half take office each year. Under the change, no vice president could serve consecutive terms as a regional vice president.
- With the 1995 retirement of current Executive Director Weinert, the Board approved an advertisement for a new executive director, in which it is stated that a PE is desired but not required. The rationale is that the Society seeks the best overall candidate for the position. A search committee will select a candidate and negotiate a salary, with the hope of introducing a new director at the Society's Annual Meeting in Louisville next July.

- Under a newly approved policy, the personal and financial records, data, and related information compiled or maintained by NSPE involving individual NSPE members will remain confidential. Requests for such information can be honored only through written consent of the individual member.

Other Board Actions

- A revised bylaw on travel reimbursement fulfills the intent of a resolution submitted by the Texas Society of Professional Engineers. Texas has argued that previous policy limiting travel reimbursement to no more than four National Directors was unfair to large state societies. The amended bylaw provides one travel reimbursement for each 1500 members or part thereof.
- NSPE's National Institute for Engineering Management and Systems, which had promoted total quality management in engineering organizations, was officially disbanded. Although the Society remains committed to the total quality management principles espoused by NIEMS, it was noted that such principles were being promoted by a large number of organizations.

NIEMS recommended the Board action after the institute realized that it was no longer financially viable as a separate organization. The thrust of NIEMS programs will now be assumed by the Professional Engineers in Industry practice division, which has provided seed money for NIEMS.

- Under a newly approved "closed proposal process" for selecting NSPE Annual and Winter meeting sites—crafted by the NSPE Meetings Task Force—the Society's professional meetings planner will create a list of prequalified sites. Convention and business bureaus from those cities will then be asked to submit competitive proposals. The new procedure, aimed at cutting costs and improving quality, will not prevent any state from submitting a proposal of its own. Also, financial management and responsibility for the event will remain with the host state society.
- A Board-passed policy on *Engineering Times* advertising states that "acceptance of an advertisement for placement in *Engineering Times* does not constitute an endorsement or commendation of any kind by NSPE, and readers must judge for themselves the suitability of the product, service, or solicitation to their needs."

NSPE's 60th Anniversary

- With 1994 marking the 60th anniversary of NSPE, the Annual Meeting showcased numerous anniversary activities. An evening gala celebration featured an audio-video presentation highlighting the vision of NSPE's founders and a special commemorative publication of the writings of D.B. Steinman, NSPE's founding president. In addition, the Society's past presidents were honored at a special luncheon. *LE*



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



Good News/Bad News

We have all heard that one — "Which one would you like to hear first?"

This one has to do with environmental engineers and control systems engineers. For over a year you may have read articles about the Board registering engineers in these two new branches of engineering. The Board "in its wisdom made the decision to register in these two new branches".

Whenever a new branch is added, the Board, under the authority of Section 909 of the Board rules, may register engineers who are current engineer registrants of the Board without having to take the engineering examination. The logic being that those engineers had been practicing in those areas before the new branches of engineering were added. Therefore, current engineer registrants of the Board who apply for registration in the new branches within one year after the Board establishes the new branch may be registered by presenting evidence that they are qualified by experience and education. That's the good news.

More than 500 engineers applied for consideration under Section 909 of the Board rules in the month of July alone. The cut-off date for applying was July 20, 1994.

The bad news is that many states may not recognize environmental engineering registration or control systems engineering registration. For whatever reasons some states may be slow in accepting these new branches of engineering or may never accept them. We can't do very much about that.

Another reason registrants of these two branches of engineering may have problems in getting reciprocity registration in another state may be the examination requirements. Some states will register environmental and control systems engineers only if they have taken and passed the written examinations.

If you plan to apply for reciprocity registration in another state and you learned it is necessary for you to have taken and passed the written examination and you have not done so, the Louisiana Board has a provision whereby you can apply to take an examination for record purposes under the provision of Section 1511 of the Board rules. Should you find yourself in this predicament, please give the Board office a telephone call (504-568-8450) so that we can assist you in preparing to obtain reciprocity registration. *LE*

SCHEDULE OF EXAMINATION DATES

Examination	Examination Date	Application Postmark Date
Principles & Practice of Engineering (8 hr.)	04/07/95	01/09/95
Civil (Including Structural & Sanitary), Chemical, Electrical, Environmental & Mechanical	10/27/95 04/19/96	07/31/95 01/22/96
Agricultural, Control Systems, Industrial, Metallurgical, Mining, Nuclear and Petroleum	10/27/95 10/25/96 10/31/97	07/31/95 07/29/96 08/04/97
Principles & Practice of Land Surveying (6 hr.)	04/07/95 10/27/95 04/19/96	10/10/94 05/01/95 10/23/95
LA Laws & Procedures of Land Surveying (2 hr.)	04/07/95 04/19/96 04/18/97	10/10/94 10/23/95 10/21/96
Fundamentals of Land Surveying (8 hr.)	04/08/95 10/28/95 04/20/96	10/10/94 05/01/95 10/23/95
Fundamentals of Engineering (8 hr.)	04/08/95 10/28/95 04/20/96	01/09/95 07/31/95 01/22/96

Application — NOT Pre-application — must be postmarked not later than the date indicated before an applicant will be considered for the respective examination. Note that the approximate interval between postmark dates and examination dates is 180 days for land surveying examinations 90 days for engineering examinations.

The Board may schedule an applicant for an examination later than the examination requested by the applicant and cannot guarantee that the applicant will be scheduled for the examination initially requested.

An oral examination will be scheduled for Professional Land Surveyor applicants prior to any required written examinations.

If you are applying for reciprocity registration and examination may not be required.

BOARD MEETING NOTICE

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

1994

Nov. 7-8

1995

Jan. 23-24
March 20-21
June 5-6

July 24-25
Sept. 25-26
Nov. 6-7



The Washington Bulletin

Design-Build

NSPE Participates in Design-Build Negotiations. NSPE has been an active participant in efforts to craft legislative language acceptable to design professionals that would permit federal agencies to procure design-build services through a two-phase selection procedure, in which the second phase requires contractors to submit cost information. The language, proposed by the General Services Administration (GSA) and the U.S. Army Corps of Engineers (USACE), is expected to be offered during a House-Senate conference on acquisition reform legislation (H.R. 2238/S. 1587) that has cleared both chambers.

Under the two phase process, the soliciting agency would select at least five offerors on the basis of qualifications in the first phase, and then, in the second phase each of the offerors would be required to submit detailed proposals, including cost information. An award would be made to one offeror using regular procedures.

In its discussion with the agencies on the proposal, NSPE and other architectural and engineering (A/E) groups emphasized that the process should not weaken the procurement of A/E services through qualifications-based selection (QBS) procedures, result in increased liability exposure, jeopardize the direct line of communication between the owner and the design professional, or result in allowing large contractors to dominate the market to the detriment of smaller firms.

GSA and the USACE have attempted to address A/Es' concerns by incorporating several of their suggestions into the bill language, including developing criteria for using the two-phase process; using QBS when contracting out the scope of work; incorporating QBS evaluation factors in phase one; raising the maximum number of offerors to be selected from three to five; and authorizing the agency to provide stipends or reimbursements to phase-two offerors who are not selected.

GSA and USACE have emphasized that the design-build procedure is not intended to replace the traditional project delivery system, but is merely an alternative that should be available for the government's use in appropriate cases.

Design-Build Update

Conference on Procurement Reform Underway. House and Senate conferees are meeting to resolve differences between two versions of acquisition reform legislation (H.R. 2238/S. 1587) that have passed their respective chambers. NSPE is monitoring the conference for the outcome with respect to language contained in the Senate bill that would permit federal agencies to procure design-build services through a two-phase selection procedure. The second phase requires offerors to submit detailed proposals that include cost information. NSPE participated in discussions with the provision's authors, the U.S. General Services Administration and the U.S. Army Corps of Engineers, but did not endorse it because of concerns that the two-phase process may weaken the qualifications-based selection (QBS)

method of procuring architectural and engineering services as prescribed under the Brooks A/E Act.

Representative Jack Brooks (D-TX), the author of the Brooks A/E Act and a conferee on the procurement reform measure, has voiced his opposition to the design-build provision because it may weaken QBS procurement.

Unfunded Mandates

NSPE Declares Opposition to Unfunded Federal Mandates. NSPE went on record in opposition to the practice whereby the federal government adopts requirements that must then be implemented **and funded** by state and local government. The NSPE Board of Directors adopted a professional policy on these so-called "unfunded mandates" at its Annual Meeting in Kansas City. The new NSPE professional policy states:

"NSPE opposes Federal imposition of unfunded mandates on units of state and local government except where significant and imminent harm to the public health, safety, and welfare can be documented. State and local government budgets are severely strained and obtaining financial resources or new taxes to implement these unfunded mandates imposes inappropriate constraints on state and local government. In addition, it inhibits their ability to address local needs and priorities. In those limited cases where such mandates are necessary, they must be phased into existence so as to minimize the financial impact on state and local government."

In adopting the policy, NSPE joins the chorus of state and local governments and others who have made the unfunded mandates issue a major item for Congressional attention this session, particularly in environmental legislation.

Welfare Reform

NSPE Voices Opposition to License Sanction and Superfund Tax Provisions in Welfare Reform Legislation. One of the last policy debates in which professional engineers would have expected to be engaged is welfare reform. But NSPE has given it its attention since President Clinton unveiled his welfare reform initiative in June. Included in omnibus legislation that implements the Administration's initiative are two provisions of concern to NSPE. Section 667 of the Work and Responsibility Act of 1994 (S. 2224/H.R. 4605) requires the states to adopt procedures to withhold or suspend, or to restrict the use of professional and other licenses of individuals who are delinquent in their child support obligations. Section 907 of the legislation extends the Superfund corporate environmental income (CEI) tax into 1998 and converts it to a mechanism for financing welfare reform.

NSPE has communicated its objection to these provisions in correspondence to members of the House Ways and Means and Senate Finance Committees. These committees hold jurisdiction over most of the welfare reform package. NSPE also submitted a formal statement for the hearing record of the two committees.

Among the objections that NSPE raised with the license sanction provision is that it would infringe on the traditional prerogative of state governments to regulate professions and occupations. NSPE noted that the license sanction provision would impose an unfunded mandate on the states, as nothing in the bill proposes to reimburse them for the cost of implementing the mandate. NSPE also objected to the license sanction mandate because it would impede state licensing authorities' ability to fulfill their primary responsibility of protecting the public health, safety and welfare.

NSPE also raised concerns that the license sanction provisions are troublesome on constitutional grounds and would set an alarming precedent by placing the discretion and authority to determine the practice qualifications of licensed professionals outside the authority of the appropriate state licensing board.

With regard to the Superfund CEI tax, NSPE stated its objection to extension of the special tax for any purpose other than that which it was imposed, the financing of Superfund-mandated hazardous waste remediation. NSPE stated that revenues generated by extending the CEI tax should continue to be directed to the Superfund program.

It is unlikely that the welfare reform bills will see Floor action this Congress, as health care reform is likely to consume much of the remaining floor time. The issue could move, however, if health care reform stalls and Congress turns its attention to other social policy issues on the President's agenda.

Guaranty/Warranty

Senate Highway Legislation Free of Warranty Language. The Senate Environment and Public Works Committee recently approved legislation (S. 1887) to designate the National Highway System (NHS). Floor action is anticipated in September. The NHS has the aim of identifying existing highways for priority funding.

Consistent with NSPE's recommendation to the Committee in testimony earlier this year, the legislation does not contain a provision that would authorize states to require warranties on Federal-aid highway projects. The House version of the NHS legislation (H.R. 4385) contains a provision that authorizes states to require contractors, but not engineers or designers, to warrant their work. NSPE is concerned that the contractor warranty language sets a dangerous precedent that may lead regulators to attempt later on to require design professional warranties as well.

The warranty language is just one of the differences between the House and Senate versions that will have to be worked out in conference. The House has loaded its bill with authorizations for demonstration projects and other transportation policy matters unrelated to the NHS designation. The Senate legislation, on the other hand, is a "clean" bill. The difference in these approaches is expected to make a conference on the legislation contentious. *LE*
(Reprinted from *Washington Bulletin*, July and August 1994)

Presidential Privilege

Continued from page 4

Conclusion

As you can see, the issue is not whether the engineers should continue their education but whether it should be mandatory. If enabling legislation is the first step toward mandatory, it needs to be thought out very clearly and discussed by the members of the profession. We value your opinion. *LE*



Please mail or fax your response back to:

Louisiana Engineering Society,
P. O. Box 2683, Baton Rouge, LA, 70821-2683.
Fax number is (504) 344-4319.

I am a registered EIT or professional engineer in Louisiana and based on my current knowledge of this issue, I make the following choices:

Mark one choice:

- ☐ 1. Support mandatory continuing professional development
- ☐ 2. Against mandatory continuing professional development.
- ☐ 3. Neutral.

Mark one choice:

- ☐ 1. I would support enabling legislation for land surveyors and engineers.

- ☐ 2. I would support land surveyors only.
- ☐ 3. I would be against enabling legislation.
- ☐ 4. Neutral.

Mark area of practice:

- ☐ 1. Private Practice
- ☐ 2. Industry
- ☐ 3. Education
- ☐ 4. Government
- ☐ 5. Construction

LES Chapter Location: _____

Engineers in Government



Louisiana Society of Professional Engineers in Civil Service

The Futile Pursuit of Professionalism

by: James C. Porter, P.E.

There was an insightful article - if not a spoof - first published in 1973 that facilitated a better understanding of my concept and definition of professionalism. It is titled "Perils of Professionalism" and written by William J. Haga, an assistant professor of management and sociology. I believe Haga's article offers us a baseline perception - though largely ignored - we who consider ourselves to be professionals can use to appreciate and explain ourselves in more meaningful terms. He begins by identifying the essence of professionalism in these forms:

A true PROFESSIONAL is one who is simply in an occupation that is "socially defined" as a profession. The term PROFESSIONAL can be bestowed on anyone in any occupation who stands out in his/her field and it is a title bestowed by knowing admirers. It can also be applied to distinguish between those paid for their skills and those unpaid such as amateur athletes.

A PROFESSION is an extraordinary occupation that is of higher social status than ordinary occupations not so recognized. How a profession attains its social status as an extraordinary occupation may be too esoteric to put in specific terms.

PROFESSIONALISM is a behavior one expects from a member of a true profession, or one attempts to demonstrate though in fact he/she is not a member of a recognized profession. It is an obsessive behavior in certain ordinary occupations that are on the outside looking in.

PROFESSIONALIZATION is the deliberate and predictably futile attempt by those in an ordinary occupation to attain the social status of a true profession.

Sociologists, according to Haga, have identified what are considered the outward attributes recognized professions seem to embody. A true profession is an extraordinary occupation that (1) invokes service to public, (2) requires long training for its entrants, (3) embraces a code of ethics, (4) publishes learned journals, (5) forms professional support associations, (6) requires an entrance examination, (7) has symbols (black robes, white coats, etc.), (8) requires mandatory continuing education and (9) limits who can practice by licensure. The obsessive pursuit of these attributes by the "wan-a-be" (want-to-be a profession) ordinary occupations for years has netted them no significant gain. Either an occupation has it or it doesn't and nothing can be done intentionally by its members to achieve the much coveted status of a true profession.

What is it that a true profession has? Haga suggests that the list of outward attributes are actually the consequences of being a true profession. They are not causal elements that convert an ordinary occupation into a true profession. Haga suggests that a combination

of cruciality and mystique differentiate the true profession from the ordinary occupation.

Cruciality is a perception held by an audience of significant others or lay people who believe that their life, health, wealth, or freedom at some point may depend on a particular occupation. Mystique is earned by an occupation with an audience of significant others that believes its members have extraordinary knowledge, judgement and expertise not possessed by mere mortals. Cruciality and mystique combine to create an authority relationship between the professional and the lay person. This authority relationship is strangely defined as the suspension of judgement by the lay person in the presence of and in deference to a respected other - the true professional.

What do the wan-a-be occupations want? They want to be (1) autonomous (no supervision) on the job, (2) recognized through their occupation rather than their employment, (3) monopolistic over their line of work, and (4) in control of their own discipline. What do they get? Frustrated!

Haga suggests that intimidation is the ultimate professional behavior. Members of a true profession depend on intimidation to control the audience of significant others with whom they must interact. Professional intimidation is what a physician tends to threaten a patient with that questions a diagnosis or treatment.

It is a threat of abandonment or withdrawal of services. Once the authority relationship or suspension of judgement on the part of the lay person occurs, this can be a significant threat. The wan-a-be druggists gain professional stature with some by working on a raised platform with a mind boggling number of pill bottles in clear sight. They stand behind their counter peering down on the daunted customer. They fail as a true profession because physicians ultimately control their activities.

Occupational societies for engineers, journalists, certified public accountants, teachers, real estate agents, beauticians, etc. tirelessly pursue the true professional grail for their occupation. They encourage job classifications to stratify their workplace by class that make their occupation the highest classification possible - of course. When some true professions recently established mandatory continuing education licensure, the wan-a-be members in the societies for the ordinary occupations like engineering have been unable to control an irrepressible urge to ape the behavior. Doctors put M.D. after their name; we wan-a-be engineers put the pretentious P.E. after ours - and get it regulated by law. We jealously guard its use even though it is not usually recognized except among a small number of our fellow engineers. When it is recognized by someone else, it usually makes front page headlines in nationally published society news organs. Simply put, when the true professions sneeze, we wan-a-be ordinary occupations get a cold. A savvy, ordinary lay person may suggest we, "Get a Life!" LE

The Society Reports

Lake Charles Chapter News

by: Ronald R. Dupont, P.E.
Lake Charles Chapter President

The Lake Charles Chapter of LES is preparing for another great year! Our membership is increasing, student-interest is high, and we are working closely with McNeese State University sponsored engineering societies. We are excited about our prospects for growth and the increased participation by McNeese faculty and students in our organization.

One of the most important aspects of LES membership is the opportunity to hear from a variety of speakers. Last year our speakers included: the newly elected mayor of Lake Charles, Willie Mount; Ulysses J. St. Germain, Jr. Director of the Port of Lake Charles; our own Edgar Benoit, P.E., LES 1st Vice-President; Dudley Hixson, P.E., P.L.S., President of the National Society of Professional Engineers (NSPE); Carrol Clark, P.E., LA Department of Natural Resources; and Joe Cironi, President of the Chamber of Commerce Southwest Louisiana. Our May meeting concluded the year with a plant tour of the W. R. Grace Company.

This year's plans include actively recruiting new members as well as maintaining our current level of membership. We are planning to have a variety of speakers, a joint society meeting, and a McNeese faculty and student meeting. Also during Engineers' Week, we are planning an exhibit at Prien Lake Mall which will involve McNeese Engineering student societies. Plans are presently being implemented for MATHCOUNTS fund raising and coach's clinic. This year's goal is participation by fifty-five percent of the five-parish area schools.

In conclusion, the coming year promises to be one of continued success for our organization. We need the active support of all members in order to realize our ambitious goals. Please join us!

Lafayette Chapter News

by: Susan H. Richard, P.E.
Lafayette Chapter President

What's the Lafayette Chapter of LES up to lately? PLENTY! The newly-elected officers of the Lafayette Chapter have outlined a host of activities designed to appeal to the entire engineering community. Our first meeting on September 14 kicked off the year with the installation of officers and an informative talk by Edgar Benoit, P.E., the new State President of LES. Mr. Benoit spoke on the hot topics in LES and NSPE, such as Continuing Professional Competency and the reorganization of NSPE. Our First Vice-President, Dale LeBlanc, P.E., is developing a list of speakers and programs for our chapter meetings that will attract all members. Please feel free to contact Dale at (318) 989-4545 with your ideas for programs or field trips.

In an attempt to bring our chapter more in touch with the community, and to emphasize engineering as a "people-serving profession", we are organizing a Thanksgiving Food Drive, and a Habitat for Humanity project. Look for details in upcoming newsletters. We hope that all members, and any prospective members, will volunteer for these worthwhile causes.

The chapter is also attempting to entice participation of members outside of metropolitan Lafayette and all engineering disciplines by

moving meetings to New Iberia and Opelousas, and by holding joint meetings with other technical societies.

Our MATHCOUNTS program is still going strong and we hope to increase participation of schools through incentives. Monetary awards are being considered for the top three individual finishers and the top school's mathematics department.

Aside from the "professional" activities, we have some social activities in store too. Back by popular demand is the Second Annual LES Lafayette Chapter Tailgate Party, scheduled for Homecoming, October 8th. This is our chance to meet the upcoming U.S.L. engineering graduates, and to socialize with our peers. Bring a potential member so they can see what LES has to offer. Our Christmas Social is also back, scheduled for December 15 at Ray's Sports Bar.

We hope all members will volunteer in some capacity in implementing the activities outlined for the year. Members and would-be members alike are encouraged to contact any officer with your ideas for activities or programs which would be of interest to you. Remember, the Chapter is here for you, to represent your opinions and inform you - the Professional Engineer.

LES Public Relations Committee

by: John J. Plaisance, II, P.E.

Public Relations Committee Chairman and State Director

The Louisiana Engineering Society Public Relations Committee is hard at work trying to let everyone know about engineers and letting engineers know about their societies. Last year, the LES Board of Direction adopted a Public Relations Master Plan. The Public Relations Committee will work hard this year at implementing it.

One of the goals of this committee is being partially met by the publication of this article in the Louisiana Engineer. Every chapter and state committee will have an article similar to this published to let the engineering public know what is happening in our organization. Also, President Benoit has directed us to have each chapter publish at least three articles in their local newspapers concerning their activities. Election of officers, MATHCOUNTS, and award winners will be publicly acknowledged. It would also be interesting to see articles about activities such as Baton Rouge's Math Initiatives or even tailgate parties with the local colleges.

Another of President Benoit's directives is to bring out the humanitarian side of engineers. After all, engineers are people, too. Each chapter should try to get together to help some charitable cause. You can help by volunteering (or at least cooperating when your chapter president calls) to help bring disadvantaged kids to a sporting or cultural event, or helping a local charity with its fund raising drive. It would help your community, your own self esteem, and the engineering profession.

It is the Public Relations Committee's job to let the world know about the engineers in Louisiana. It is also our job to let you know what is going on in LES and NSPE. There are several important issues that we must face. Continuing professional competency, the industry exemption, NSPE reorganization, and turf battles with architects are all issues that your state and national leaders are dealing with. Please keep yourself informed and participate in these discussions. Your future is at stake.

Professional Engineers in Private Practice (PEPP)

by: Foy B. Gadberry, P.E.

State PEPP Chairman

At the summer NSPE meeting in Kansas City, several items were discussed, some of which were implemented. Membership is always a topic, with retention being the key. As always, Louisiana is the leader in membership dues collected. A new program will begin this year on Professional Development. It is a series of video tapes on different subjects which, if taken, will credit all attendants with PDU's. The unique idea behind this program is being able to take the subjects in your office, or as a chapter. There is a cost involved but is minimal compared to the benefits received. The EJCDC documents

have been revised and will also be available on electronic disk later this year.

On a state level, PEPP is continuing its rapport with LDOTD. Recently we met with LDOTD personnel to discuss electronic media requirements in the future. Presently, the Location and Survey Section will require projects after January 1, 1995 to be compatible with Microstation and Inroads. The Roadway and Bridge Design Sections are working on a set of guidelines and specifications for their requirements. It appears at this time that in the future the LDOTD will require projects on electronic media being compatible with Microstation and Inroads.

If you have any concerns or comments on any topic that may benefit our membership, please contact any officer and we will incorporate it into future agendas or committees. *LE*

McNeese State University News

The McNeese State University College of Engineering was among 14 universities worldwide that had an entry in the 1994 Intercollegiate Solar/Electric Boat Regatta held August 18-21, in Pewaukee Lake, WE.

According to Dr. Roy C. Johnston, head of the MSU Department of Civil and Mechanical Engineering, the purpose of the event is to promote renewable resource energy and friendly competition among college students. This event is sponsored by Johnson Controls Solar Energy Division, the American Society of Mechanical Engineers and the Institute of Electrical and Electronics Engineers.

Three MSU engineering majors designed and built the boat during the 1994 spring semester. The students participated in an endurance race, a sprint race, and maneuverability event. The MSU team included Mike Griffiths of Kinder, Craig Hare of Bridge City, Texas and Jim Alexander of Lake Charles.

The McNeese boat is a catamaran style hull with central cockpit fitted with solar panels. Significant safety features include: Styrofoam hulls for ensured flotation, adequate ventilation of the battery compartment, shock and fire prevention devices and a quick pilot exit for emergencies.

The boat was built at an approximate cost of \$20,000, and several donations were received from area businesses, such as Howell Industries, Inc. of Sulphur, which made this project possible.

The McNeese entry, which was the only Louisiana entry, competed against entries from University of Arkansas at Little Rock, Columbia University in New York, NY, the University of the District of Columbia, Washington, D.C., Grand Valley State University in Grand Rapids, MI, University of Florida at Gainesville, Kanazawa Institute of Technology in Kanazawa, Japan, Kobe University of Mercantile Marine in Kobe, Japan, Marquette University in Milwaukee, WE, University of Michigan in Ann Arbor, University of Puerto Rico

at Mayaguez in Mayaguez, Puerto Rico, University of South Carolina in Columbia, University of Texas at Arlington, and Western New England College in Springfield, MA.

The McNeese entry came in fourth in the 200-meter sprint race, sixth in the two-hour endurance race and second in maneuverability. *LE*



Pictured is McNeese Engineering major Mike Griffiths of Kinder, LA on the McNeese solar powered entry.

New Registrants of the State Board

New Registrants for the Period 07/06/94 - 09/06/94

Professional Engineers:

CHEMICAL

Chet Eric Yeo
Kenner, LA

Gerald Garriss McGlamery
Mandeville, LA

Ernest Ray Elshury IV
Lake Charles, LA

CIVIL

Michael Irving Saltzman
Erie, PA

Kim Minh Thi Truong
Vienna, VA

Charles Andrew Lysaght, Jr.
Raleigh, NC

Sandra Lee Glenn
Decatur, GA

Charles Keith Pharr
Stone Mountain, GA

Nanette Elaine Dean
Fort Myers, FL

John Griser Schmohl
Mobile, AL

Gilliam Stelling Harris
Columbus, MS

Eulas Gilbert Conner, Jr.
Versailles, KY

Donald Louis Stilger
Corydon, IN

Martin Lariosa de la Rosa
Dakota Dunes, SD

Kathryn A. Zimmerman
Urbana, IL

Terry Gene Noltensmeyer
Derby, KS

Mark Francis Hargroder
Metairie, LA

John Berterant Falcon
Baton Rouge, LA

Donald Dean Adrian
Baton Rouge, LA

Mansoor Monghale
Tulsa, OK

William Joseph Bonefas
Arlington, TX

Wayne John Scholl
Houston, TX

David Anthony Eastwood
Houston, TX

Robert Ray Jester
Humble, TX

Donald Eugene Champion
The Woodlands, TX

Harold Pauley Barber, Jr.
Sugar Land, TX

Darrell Doss Barker, Jr.
San Antonio, TX

Stephen Frederick Drott
Scottsdale, AZ

CONTROL SYSTEMS

William Pratt Mounfield, Jr.
Columbia, SC

Stephen Michael Schmaltz ✓
Metairie, LA

Thomas Tobin Miller, Jr. ✓
Metairie, LA

Glenn Arthur Garaudy
Metairie, LA

William Raiford Broome
Kenner, LA

Robert Maurice Bailliet
Kenner, LA

Ricardo Tomas Romeo
Kenner, LA

John David Norris, Jr. ✓
La Place, LA

John Paul Fleming ✓
Marrero, LA

Allan Thomas Simpson
Harahan, LA

Robert John Alonzo
New Orleans, LA

Raymond Joseph Yakupzack ✓
Houma, LA

Bruce Michael Hoppe
Mandeville, LA

Scotty James Baudoin ✓
Lafayette, LA

Richard Lee Hawkins
Lafayette, LA

John Wallace Bergeron
Carenco, LA

Gary John LaCombe ✓
Gonzales, LA

Bryon Everett Jackson
Baker, LA

Daniel Thomas Calongne
Baton Rouge, LA

Pradeep Vishwas Adarkar
Baton Rouge, LA

Henry Paul Arboreaux, Jr.
Baton Rouge, LA

Jose Nicanor German
Baton Rouge, LA

John Howard Dartez
Baton Rouge, LA

Jeremiah Joseph Doody
Baton Rouge, LA

Jack Robert Goldberg
Baton Rouge, LA

Karl Junius Finch
Baton Rouge, LA

Gerald Leo Glahn
Baton Rouge, LA

Edmund Walter Winston III
Baton Rouge, LA

S. Dale Hancock
Baton Rouge, LA

Gerard Joseph Elshout
Baton Rouge, LA

Robert Perry Bayly, Jr.
Baton Rouge, LA

Jeffrey Martin Harriss
Shreveport, LA

Edward Joseph Davis
Little Rock, AR

Roydan Curtis Conley
Beaumont, TX

ELECTRICAL

Dana Joe Jeanes
Memphis, TN

Daniel Ivan Schoenberger
Reynoldsburg, OH

William Louis Sonnenthal, Sr.
River Ridge, LA

Craig Koehn
Houston, TX

ENVIRONMENTAL

Ronald Edward Schroeder
North Kingstown, RI

Jeffery Stuart Masters
Raleigh, NC

Charles Earl Cook
Montgomery, AL

Duke Levy, Jr.
Waveland, MS

Herbert Irving Miller
Metairie, LA

Percy Peter St Amant, Jr. ✓
Metairie, LA

Om Prakash Dixit
Metairie, LA

Patrick Alan Owens
Metairie, LA

Kenneth Mike Hatcher ✓
Belle Chasse, LA

Ray Anthony Davezac
Destrehan, LA

William David Scott
Gretna, LA

Subhash Vishnu Kulkarni
Kenner, LA

Karen Sue Cannon Irion
Kenner, LA

Ben James Haney ✓
New Orleans, LA

Gerald Eugene Fair
New Orleans, LA

George Joseph Sullivan
New Orleans, LA

Richard Lee Harmon
New Orleans, LA

Dale Thomas Hunn ✓
New Orleans, LA

Ann Lynn Springston
New Orleans, LA

Michael Medwin Hattaway
New Orleans, LA

Arthur Leon Long
Houma, LA

George Wadih Mikhael
Morgan City, LA

Lyle Francis Kuhlmann
Madisonville, LA

Steven Earl Whiteside ✓
Mandeville, LA

David Bruce Scalfano
Mandeville, LA

Ali Reza Fathi
Pearl River, LA

August John Szabo ✓
Lafayette, LA

Jerry A. Grooms
Lafayette, LA

Barry Jude Hebert
Lafayette, LA

Eugene Marshall Sellers ✓
Lafayette, LA

Peter Anthony Hoppe, Jr. ✓
Lafayette, LA

Frederick Joseph Trahan ✓
Lafayette, LA

Malcolm Huval
Breaux Bridge, LA

Robert Lawrence Wolfe, Jr. ✓
Opelousas, LA

Mitchell Paul Wyble ✓
Opelousas, LA

George Fredericks Webb III ✓
Lake Charles, LA

Joseph Watson Hutchins, Jr.
Lake Charles, LA

Wilton George Wallace
Lake Charles, LA

Lamy Jean Chopin, Jr. ✓
Denham Springs, LA

Stephen Dudley Field
Livingston, LA

Atly Brasher
Livonia, LA

Mariano G. Hinojosa ✓
Baton Rouge, LA

Jefferson Thomas Tessier, Jr.
Baton Rouge, LA

Gregory Lynn Goodman
Baton Rouge, LA

Paul Timothy Tate
Baton Rouge, LA

John David Weaver
Baton Rouge, LA

Frank Peter Frey II
Baton Rouge, LA

Tarek Elnaggar
Baton Rouge, LA

Yalcin Bekir Acar
Baton Rouge, LA

Ed Wayne Buford
Baton Rouge, LA

Glynn Paul Gautreau ✓
Baton Rouge, LA

Manop Vanichchagorn
Baton Rouge, LA

Stephen Jerome Burnham
Baton Rouge, LA

Joroy Hamilton
Baton Rouge, LA

Thomas Cunningham Ewing
Baton Rouge, LA

Bryan Anthony Guidry ✓
Baton Rouge, LA

John Keith Shackelford ✓
Baton Rouge, LA

Louis Joseph Thibodeaux
Baton Rouge, LA

Harold Alexander Moise III
Baton Rouge, LA

Gordon Powers Boutwell, Jr. ✓
Baton Rouge, LA

Dennis Jay Meyer ✓
Mansfield, LA

Gordon Rockwell Moore
Shreveport, LA

Oliver Lee Underwood, Jr. ✓
Bossier City, LA

Danny Fred Martin ✓
Bossier City, LA

John Earl Scotto, Jr.
Shreveport, LA

Gary Vance Edwards, Jr.
Monroe, LA

Kenneth Carl McManus ✓
Monroe, LA

Michael Alan Causey ✓
Ruston, LA

Robert Charles Browder ✓
Ruston, LA

Thomas Cheney David, Jr. ✓
Pineville, LA

Bennie Wayne Wilkinson
Pineville, LA

Michael Andrew Cazes
Pineville, LA

Pat Bernard Keller
Desoto, TX

Richard Murrell Graves ✓
Lufkin, TX

Daniel Everett McKay III
Missouri City, TX

MECHANICAL

Thomas Wayne Mooney
Pinson, AL

James Michael Rogers
Mobile, AL

Joseph Bernard Uicker
Detroit, MI

Robert Lee Tazelaar
Willowbrook, IL

Stanley Slazas III
Naperville, IL

Howard Robert Verduin
Chicago, IL

David Craig Launey
Baton Rouge, LA

Andrew Charles Higgins
Tulsa, OK

Ned Brian Heminger
Plano, TX

✓ Indicates member of LES

Welcome New Members

Alexandria Chapter

Jerome J. Acosta, Jr., EIT
Edward K. Dodge, EIT
Mark E. Owen, EIT

Baton Rouge Chapter

James H. Beard
Scott Develle, P.E.
John P. Earles, P.E.
James J. Gilbert, P.E.
David A. Gutierrez, EIT
B. Allen Jones, EIT
Ronald J. Kobialka, P.E.

Bayou Chapter

Roy C. Mayet, P.E.

Lake Charles Chapter

Kwok K. Chang, P.E.,
Nandish M. Gowda
Keith M. Hamilton, EIT
Rex J. King, EIT
Franklin B. Stagg, P.E.

Monroe Chapter

Michael I. Bell, P.E.
Robert A. Davis, P.E.
Jackie W.D. Robbins, II, EIT

New Orleans Chapter

Wade Angel, EIT
Nelson Capote, EIT
George Drouant, P.E.
Darren Englade, EIT
Arthur Garza, III, EIT
Terry M. Green, P.E.
Kenneth M. Hatcher, P.E.
Paul L. Horton, P.E.
Troy M. Jeanfreau, EIT
Albert C. Maenz, P.E.
Dwayne Malborough, EIT
Mark A. Mertz, EIT
Michael J. Picou, EIT
John D. Taylor, P.E.
Trav A. Thiesse, P.E.
Patrick Wilson, P.E.
Franza J. Zemmer, EIT
Lawrence P. Zeringue, EIT

Shreveport Chapter

Jeffrey L. Wreyford, EIT
Kevin T. Wright, P.E.

THE VALUE OF A SMILE

A smile creates happiness in the home, fosters good will in business—and is the countersign of friends.

It is a rest to the weary, daylight to the discouraged, sunshine to the sad, and nature's best antidote for trouble.

Yet, it cannot be bought, begged, borrowed or stolen, for it is something that is no earthly good to anybody until it is given away!

And if someone is too tired to give you a smile, just give them one of yours anyway. For nobody needs a smile as much as those who have none left to give.

A smile is contagious, lets's start an epidemic!!!



The State Legislative Bulletin

Building Inspection

One area in which licensed professional engineers are authorized to practice is building inspection. Some elements of a building inspection are not exclusively within the realm of engineering, however. Individuals who provide building inspection services, other than licensed engineers, architects, or contractors, are unregulated except in two states (**North Carolina, Texas**).

In their 1993-94 legislative sessions, twelve states (California, Delaware, Georgia, Massachusetts, North Carolina, New Hampshire, New Jersey, Pennsylvania, Rhode Island, South Carolina, Tennessee, Virginia) **considered regulation of building/home inspectors**. This is a significant increase from the handful of states that considered similar bills in the 1991-1992 session. While only four states (**Georgia, North Carolina, Tennessee and Virginia**) adopted legislation in 1993-1994, the mere increase in the number of bills indicates that the issue is likely to continue in coming years.

Licensed engineers should be alert to the threats to their authority to provide building/home inspection services that may exist in such legislation, chiefly:

- the proposed scope of practice of building/home inspectors may encroach on the practice of engineering;
- the legislation may not recognize a PE license as sufficient for meeting the education and experience requirements of a building/home inspector;
- the legislation may not exempt PEs from the additional licensing requirement, necessitating them to apply for a building inspection license in order to continue their existing practice.

NSPE Professional Policy 149 - *Building Inspection* - offers the following guidance for addressing the building inspection issue:

It is the policy of the National Society of Professional Engineers that those aspects of building inspections which require the application of engineering principles constitute the practice of engineering and should only be performed by registered professional engineers. Further, it is the position of the National Society of Professional Engineers that such aspects include but are not limited to the examination and evaluation of commercial, industrial, and institutional buildings and, when appropriate, residential dwellings, regarding the structural, electrical, or mechanical systems. The policy is not intended to prevent or affect:

1. the practice of architecture;
2. the normal or routine inspection of buildings by designated municipal inspectors or other authorized governmental officials for code compliance; or
3. the identification and reporting of evidence of apparent system failure, defects, or improper performance through observation or normal operation of user controls, provided that, as needed, engineering evaluations are referred to an appropriate registered professional engineer.

Private Investigations

The Governor of Ohio has signed legislation that exempts professional engineers providing investigative services from the state's private investigator (PI) licensing act.

The Ohio Society of Professional Engineers (OSPE) sought the exemption following a state court decision that ruled that PEs must hold PI licenses before their testimony can be admissible in court. The Montgomery County Court of Appeals had ruled in December 1993 that a PE must hold a private investigator's license to visit a scene to gather evidence for the purposes of providing expert testimony. The court placed strict limitations on PEs and suggested that they are not qualified to perform fire investigations without a PI license. OSPE and NSPE had filed an amicus brief in the case.

OSPE convinced the legislature that the PI law, which the court had upheld, would lead to ludicrous results, such as prohibiting a structural engineer from entering the site of a structural collapse to investigate the cause of a disaster.

Ohio is not the only state that has had to grapple with this conflict. In 1990, the Michigan legislature adopted a similar exemption to its PI law.

Interprofessional Relations

The NSPE Board of Directors adopted a professional policy on interprofessional relations at its July 1994 meeting in Kansas City, Missouri. The policy states that NSPE shall encourage all professions to establish, by law, minimum criteria of competency and practice in their field. The policy continues that "NSPE believes any license or certification process enacted or developed for other professions should contain safeguards preventing that profession from engaging in the practice of engineering." The policy also states NSPE's belief that federal, state, and local governments should not require licensed professional engineers to become "certified" in specialty areas as a condition of service or employment. The policy will provide guiding principles for NSPE to use when responding to policy issues, including encroachment matters, that arise when other groups seek licensure or certification.

NSPE-PAC

NSPE-PAC Earns Strong Support in 1993-94. During the 1993-94 election cycle, NSPE members continued to show strong support for NSPE-PAC. More than 950 individuals contributed \$37,000 in 1993. 1994 has kept pace thus far with more than 700 individuals contributing over \$25,000.

This high degree of involvement has given NSPE-PAC the opportunity to support candidates who understand the engineering profession, thereby strengthening NSPE's government relations efforts on Capitol Hill. NSPE-PAC has disbursed \$31,500 to 33 candidates for Congress during the 1993-94 election cycle.

There is still much work to be done before the November 8th elections. The goal for the remainder of 1994 is to involve more NSPE members in NSPE-PAC. Please call the NSPE Government Relations Department at 703/684-2841 if you would like to contribute to the PAC or for further information on NSPE-PAC or other NSPE government relations programs. **LE**

(Reprinted from NSPE State Bulletin)

AD SPACE AVAILABLE

The *Louisiana Engineer* has advertising space available for your products and services. The *Louisiana Engineer* is the official journal of the Louisiana Engineering Society and the Louisiana State Board of Registration for Professional Engineers and Land Surveyors. Over 19,500 professionals (including all professional engineers, professional land surveyors, engineers-in-training, and surveyors-in-training) receive the magazine six times per year.

If you want to introduce yourself and your products or services to engineers and land surveyors across the State of Louisiana, contact Leta Bueto, Editor, P. O. Box 2683, Baton Rouge, LA 70821, Phone (504)344-4318, FAX (504)344-4319.

Advertising Rates

Advertising net rates per issue in the *Louisiana Engineer* magazine are as follows:

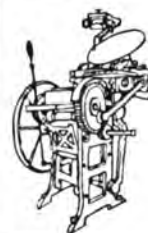
	One Time	Three Times	Six Times
Full Page	\$600	\$540	\$510
2/3 Page	420	375	350
1/2 Page	360	325	305
1/4 Page	215	195	180
1/8 Page	130	115	110
Professional Listing or Service Listing	N/A	40	25

SERVICES & SUPPLIERS

PIPE & LEAK LOCATING

- ✓ LEAKS UNDER SLAB FLOORS
- ✓ SEWER LINE MAPPING & PROFILING
- ✓ WATER & GAS SYSTEM LEAK SURVEYS

LEAK TECHNOLOGY FRANK ZIMBELMAN, PE
div. PRO-AM, INC. NEW ORLEANS
3814 HWY 43 NORTH 583-1857
PICAYUNE, MS 39466 (800) 673-5726



FAX 355-2178
**PRINTING
INCORPORATED**
3019 PLANK ROAD (504) 357-5961
BATON ROUGE, LOUISIANA 70805

The Best People
The Best Equipment
For the Best Product!

We House A Complete
"Independent" Art Department

Ed's ep
**PRINTING
COMPANY, INC.**

925-0991
9366 Greenwell Springs Rd.
at Monterrey

Water King



James E. Bowie, Jr., Ph.D., P.E.

Acadiana Treatment Systems
103 Charbonnet Road
Duson, Louisiana 70529
(318) 988-2360
Fax: (318) 981-7922

USL (318) 231-6846

MECO

Sea Water Conversion Equipment
Pharmaceutical Distilling Plants
Marine Heat Exchangers and Pumps
Reverse Osmosis Systems

MECHANICAL EQUIPMENT COMPANY, INC.
861 CARONDELET STREET, NEW ORLEANS, LA 70130 U.S.A.

PHONE: (504) 523-7271
TELEFAX: (504) 525-4846

TELEX: 460165

PROFESSIONAL LISTINGS

WALDEMAR S. NELSON AND COMPANY

INCORPORATED
ENGINEERS AND ARCHITECTS

1200 ST. CHARLES AVENUE
NEW ORLEANS, LA 70130



TELEPHONE: (504) 323-3281
FACSIMILE: (504) 323-4587
TELEX: 584351 NELSENG

COMPLETE ENGINEERING AND PROJECT MANAGEMENT SERVICES
43 YEARS OF EXPERIENCE SERVING INDUSTRY

- SITE PLANNING / PERMITTING
- CHEMICAL / PROCESS / PETROLEUM
- CIVIL / STRUCTURAL
- ELECTRICAL / ELECTRONIC
- ENVIRONMENTAL / SANITARY
- INSTRUMENTATION / CONTROLS
- CONSTRUCTION MANAGEMENT
- MONITORING / MODELING
- MECHANICAL
- PIPELINE
- MINING
- HVAC
- ARCHITECTURE
- ASBESTOS



Parsons Brinckerhoff Quade & Douglas, Inc.

One Lakeway Center
3900 North Causeway Blvd.
Suite 1460
Metairie, LA 70002
504-830-0070
Fax: 504-830-0071

BALAR

CONSULTING ENGINEERS



STEVEN W. BROWN, P.E.

BALAR ASSOCIATES, INC.
401 EDWARDS ST., SUITE 815
SHREVEPORT, LA 71101
(318) 221-8312
FAX (318) 424-6506

- CIVIL
- STRUCTURAL
- ENVIRONMENTAL



SIMMONS J. BARRY & ASSOCIATES

A UTILITY OPERATORS, INC. COMPANY

CONSULTING ENGINEERS
AND PROFESSIONAL LAND SURVEYORS
FOR INDUSTRIAL, GOVERNMENTAL, AND COMMERCIAL CLIENTS

POST OFFICE BOX 1751 BUS 504-769-3400
BATON ROUGE, LOUISIANA 70821 FAX 504-769-3596

LOURIE CONSULTANTS

geotechnical and geoenvironmental
consulting services

...quality measured in the client's terms

3924 Haddon Street
Metairie, Louisiana 70002-3011
Tel: (504) 887-5531
Fax: (504) 888-1994



Roger D. Melancon, P.E.

GULF INDUSTRIES, INC.

SAFETY ENGINEERING

P.O. BOX 309 • MANDEVILLE, LA 70470-0309
(504) 892-6500 • FAX (504) 892-0707



MONTGOMERY WATSON

3501 N. Causeway Blvd.
Suite 300
Metairie, Louisiana
70002

Telephone: 504 835 4252
Fax: 504 835 8059

Serving the World's Environmental Needs



ATCHLEY & ATCHLEY, INC.

Consulting Civil Engineers • Land Surveyors • Planners

412 La Salle Street
Shreveport, Louisiana 71107
318-222-5821
Ben D. Atchley Sr. P.E., P.L.S.
Ben D. Atchley Jr. P.E., P.L.S.



CORPORATE OFFICE
17170 PERKINS ROAD
BATON ROUGE, LA 70810
(504) 753-1000
FAX: (504) 751-2010

YOUR FULL SERVICE
ENVIRONMENTAL
CONSULTANT

LAMY J. CHOPIN, JR., P.E.

Engineered Solutions to Regulatory Issues

Baton Rouge • Lake Charles • Shreveport • Beaumont-Port Arthur • Austin



LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

Geotechnical Engineers

Engineering Consultation
Laboratory and Field Testing
Land and Marine Site Explorations

10555 Airline Highway Baton Rouge, LA 70816-4199
Telephone (504) 293-2460 Fax (504) 293-2463



ALLIANCE, INC.

Architecture • Engineering • Planning
Airport Consulting • Surveying

Petroleum Square, Suite 100 1324 North Hearne Avenue
Shreveport, LA 71107 FAX (318) 221-7635
Phone (318) 221-7501



WINK INC. COMPANIES

WINK ENGINEERING
W/E PROFESSIONAL SURVEYS

4949 Bullard Ave. • New Orleans, LA 70128-3147
Office: (504) 246-7924 Fax: (504) 246-8759

MEYER, MEYER LaCROIX & HIXSON, INC.

Consulting Engineers & Land Surveyors

P.O. Drawer 5444
3666 Government St
Alexandria, Louisiana 71301
Telephone (318) 448-0888

P.O. Drawer 1245
401 West Mississippi Ave
Ruston, Louisiana 71270
Telephone (318) 255-7236

James L. Meyer, P.E., R.L.S. R. B. LaCroix, R.L.S.
Arthur E. Meyer, P.E., R.L.S. T. D. Hixson, P.E., R.L.S.



pyburn & odom, inc.

RIVER CROSSINGS • WATERFRONT STRUCTURES
HYDROGRAPHY • HIGHWAYS • INDUSTRIAL SITES
ENVIRONMENTAL STUDIES • SINCE 1948

8178 GSRI AVENUE • BATON ROUGE, LA 70820-7406 • (504) 766-6330



FORTE AND TABLADA, INC.

CONSULTING ENGINEERS



OFFICE (504) 927-9321 • FAX (504) 927-9326
P.O. BOX 64844 • BATON ROUGE, LA 70896
9107 INTERLINE AVE • BATON ROUGE, LA 70809



professional engineering consultants corporation

Consulting Engineers

1450 Seaboard Drive
Baton Rouge, La. 70810 (504) 769-2810

TQM Systems®

Making Quality a Reality

12382 Mollylea Drive
Baton Rouge, LA 70815-6616
Phone: 504-273-4972

M.M. "Mickey" Christensen, P.E.
President IQA Assessor # A003773

RPM ENGINEERING, INC.

A PROFESSIONAL ENGINEERING CORPORATION



9969 Professional Boulevard
Baton Rouge, LA 70809
(504) 292-9901



BROWN & BUTLER, INC.

Consulting Engineers and Land Surveyors

General Civil Engineering & Land Surveying

8335 KELWOOD AVE.-SUITE D PH. 504/ 924-0235
BATON ROUGE, LA 70806-4804 FAX: 504/ 926-1687



THE MEYER GROUP



Meyer and Associates, Inc.
Engineers • Planners
Vernon F. Meyer and Associates, Inc.
Surveyors
The Meyer Group, Inc.
Project & Construction Management

500 Cities Service Hwy. • P.O. Box 2149 • Sulphur, Louisiana 70664 • (318) 625-8353
5525 Mounes Street, Suite 102 • New Orleans, Louisiana 70123 • (504) 733-3770



SALMON & ASSOCIATES, INC.

Consulting Engineers serving the
Chemical, Petrochemical,
Petroleum and Metallurgical Industry

626 HIGHLANDIA
BATON ROUGE, LA 70810
(504) 752-7250

Office Ph. (504) 868-1050
N.O. Ph. (504) 586-8222
Home Ph. (504) 872-6003
FAX Ph. (504) 868-5843

T. BAKER SMITH & SON, INC.

CIVIL ENGINEERS & SURVEYORS
LAND - OFFSHORE - HYDROGRAPHIC
ENVIRONMENTAL RESEARCH

550 South Van Ave.
P.O. Box 2266
Houma, LA 70361

WM. CLIFFORD SMITH, P.E., L.S.
President

QED

Quest Engineering & Development Corp.

Specializing In:

STRUCTURAL & EQUIPMENT DESIGN,
REDESIGN, FAILURE ANALYSIS, &
COMPUTER FEM SIMULATION

7500 North Belt-Humble (Houston) TX. 77396
Call: SAM BROWN, Ph.D., P.E.
(713) 441-2525



WALK, HAYDEL & ASSOCIATES, INC.

Project Managers
Engineers
Construction Managers

600 Carondelet St. New Orleans, LA 70130
(504) 586-8111

Baton Rouge Mobile Little Rock



LaBauve and Company

CONSULTING ENGINEERS
CIVIL STRUCTURAL

3717 GOVERNMENT ST.
ALEXANDRIA, LA 71302

318-445-8910



CSRS

CHENEVERT • SONGY • RODI • SODERBERG

An Engineering/Architectural Corporation

10725 Perkins Road, Suite 200 • Baton Rouge, LA 70810
Phone (504) 769-0546 • Fax (504) 767-0060

Norman J. Chenevert, AIA Michael B. Songy, P.E., P.L.S.
Ronald J. Rodi, P.E. Curtis D. Soderberg, AIA

COYLE ENGINEERING CO., INC.



CHARLES G. COYLE, P.E.

P.O. Box 6177
BOSSIER CITY, LOUISIANA 70117-6177

3925 BENTON RD
PHONE (318) 746-8987

DAVID VOLKERT & ASSOCIATES, INC.

ENGINEERS • ARCHITECTS • PLANNERS

3500 N. Causeway Blvd • Suite 1240
Metairie, LA 70002

(504) 837-6234 • FAX (504) 837-6237
Major offices in Metro Washington, D.C.
Mobile, AL • Tampa & Miami, FL

Office (504) 632-5596

Res. (504) 632-5646

J. W. P., INC.

J. Wayne Plaisance, Inc.

Civil Engineers • Land Surveyors

JOHN J. PLAISANCE, II
President

Post Office Drawer 730
Galliano, Louisiana 70354

Alliet, Fenner, Jolly & McClelland, Inc.

Consulting Civil & Structural Engineers

Robert R. Alliet, Robert D. Fenner, Leland H. Carter
Richard R. Alliet, Gary W. Fenner

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

1055 Louisiana Avenue
Shreveport, Louisiana 71101
AC 318 425-7452

MODJESKI AND MASTERS

CONSULTING ENGINEERS

Bridges • Highways • Structures
Mass Transit • Special Foundations
Reports Inspections Design
Inspection of Construction

1055 St. Charles Ave., New Orleans, La. 70130
(504) 524-4344

3645 Williams Boulevard
Suite 206
Kenner, LA 70065-3464
504 443 3437



Engineers, Architects
and Planners

Ford, Bacon & Davis

INCORPORATED



♦ CONSULTING
♦ ENGINEERING
♦ PROCUREMENT
♦ CONSTRUCTION

100 YEARS OF ENGINEERED SOLUTIONS

MONROE
318/323-9000

EDISON
908/287-7800

ATLANTA
404/717-3830

HNTB

ARCHITECTS ENGINEERS PLANNERS

Comprehensive Services in

• Aviation • Construction Management
• Bridges and Structures • Environmental Services
• Civil Engineering • Transportation and Planning

HNTB CORPORATION

Catfish Turn, Suite J-200, 100 St. James Street
Baton Rouge, LA 70802 (504) 346-0006



Metallon, Inc.

Metallurgical Testing Laboratories

2524 Sutherland
Houston, Texas 77023
(713) 923-7761

Mechanical Testing
Specimen Machining

Chemical Analysis
Metallographic Evaluation

DOMINGUE SZABO

& ASSOCIATES, INCORPORATED
PROFESSIONAL ENGINEERS & LAND SURVEYORS

400 East Kaliste Saloom Road
Suite 1100
P.O. Box 52115
Lafayette, LA 70505-2115

(318) 232-5182
LA WAITS (800) 737-5182
FAX (318) 237-7132

Huntingdon

Huntingdon Engineering & Environmental, Inc.
7222 Greenwood Road 71119, P.O. Box 19220
Shreveport, LA 71149-0220

(318) 636-3673
Fax (318) 636-3723

Lloyd G. Hoover, P.E.

Vice President
Manager - Shreveport, Monroe, Baton Rouge
1-800-467-1803

A member of the [HIH] group of companies



DEMOPULOS & FERGUSON, INC.

CONSULTING ENGINEERS
SINCE 1953

• ENGINEERS • ARCHITECTS • PLANNERS

401 Edwards - Suite 1600 - Shreveport, Louisiana 71101-5530 - (318) 221-7117
2603 Augusta - Suite 880 - Houston, Texas 77057-5638 - (713) 783-7117

BURK-KLEINPETER, INC.

ENGINEERS ARCHITECTS PLANNERS ENVIRONMENTAL SCIENTISTS

• CIVIL	• PLANNING	• ENVIRONMENTAL ASSESSMENT
• STRUCTURAL	• TRANSPORTATION PLANNING	• SOLID WASTE
• MECHANICAL	• ARCHITECTURE	• HAZARDOUS WASTE
• HIGHWAY	• LANDSCAPE ARCHITECTURE	• AIR QUALITY
• DRAINAGE		• CONSTRUCTION MANAGEMENT
• PORT / MARINE FACILITIES		

4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119
TEL 504 - 486 - 5901 FAX 504 - 488 - 1714



GERAGHTY
& MILLER, INC.
Environmental Services

2900 West Fork Drive, Suite 540
Baton Rouge, Louisiana 70827
(504) 292-1004
Offices Located Nationwide

AREA CODE 318
433-0561

D. W. JESSEN & ASSOCIATES
CIVIL & CONSULTING ENGINEERS

440 KIRBY ST.
LAKE CHARLES, LA
D. WALTER JESSEN, JR.

CDM environmental engineers, scientists,
planners, & management consultants

CAMP DRESSER & McKEE INC.

3445 North Causeway Boulevard, Suite 600
Metairie, Louisiana 70002
504 832-7272

236 Third Street, Suite 200
Baton Rouge, Louisiana 70801
504 387-3822

offices nationwide

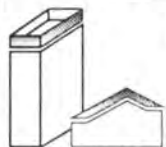
gregory c. rigamer & associates, inc.
professional consulting services

3230 W. Esplanade, Suite A
Metairie, LA 70002 (504) 836-6166

Michael W. Flores, P.E., P.L.S.
David C. Murla, P.E.
André DeHaan, P.E.
Gary Burt, P.L.S.



CIVIL ENGINEERS • PLANNERS • LAND SURVEYORS • CONSULTANTS



Jim D. Koontz & Associates, Inc.
P. O. Box 1054
Hobbs, New Mexico 88240
Ph 505 392 7676
Fx 505 392 7602

Jim D. Koontz, P.E.
President

JN JONES AND NEUSE, INC.
Environmental and Engineering Services

Preliminary Planning
Engineering Design
Facilities Permitting
Construction Management
Process and Ambient
Monitoring

Regulatory Compliance
Hydrogeologic and Geotechnical
Investigations
Risk Assessments
Remediation and Field Services
Environmental Litigation

11924 COURSEY BLVD., STE. A PHONE: (504) 291-3055
BATON ROUGE, LOUISIANA 70816 FAX: (504) 291-4801

MOHR & ASSOCIATES, INC.
Consulting Civil Engineers & Land Surveyors

6025 Buncomb Road
Shreveport, Louisiana 71129
Telephone: 318/686-7190



JAMES D. MOHR
PROFESSIONAL ENGINEER
PROFESSIONAL LAND SURVEYOR

ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS

GULF SOUTH ENGINEERS, INC.
ENGINEERING CONSULTANTS



1700 GRAND CAILLON RD.
HOUMA, LA 70363
(504) 876-6380
FAX 876-0521

1000 LEONIDAS ST.
NEW ORLEANS, LA 70178
(504) 866-1821
FAX 866-1781



3330 WEST ESPLANADE AVE. • SUITE 300 • METAIRIE, LOUISIANA 70002

CONSULTING ENGINEERS
SERVING THE PETRO-
CHEMICAL AND OIL & GAS
INDUSTRIES

OFFICE (504) 835-2577
FAX (504) 837-5924

**PETROLEUM ENGINEERS
INTERNATIONAL, INC.**

Drilling Completion & Workover Programs
Office and Field Supervision
Property Management - Total Operations
Turnkey Operations
Reservoir Engineers
Industry Training Schools

P.O. Box 52588
Lafayette, Louisiana 70505 (318) 233-5346



Providing solutions in

- Design
- Analysis
- Pipe Stress
- Vibration Analysis
- Field Services
- Troubleshooting

of static and rotating equipment

8126 One Calais Ave. Baton Rouge, LA 70809
1-800-737-0591 • Fax (504) 766-5765

EUSTIS ENGINEERING
GEOTECHNICAL ENGINEERS

CONSTRUCTION QUALITY CONTROL
AND MATERIALS TESTING
MONITORING WELL INSTALLATION
(504) 834-0157



3011 28TH STREET METAIRIE, LA 70002



LANIER & ASSOCIATES
CONSULTING ENGINEERS, INC.

INDUSTRIAL • MARINE • ENVIRONMENTAL

NEW ORLEANS, LA

HOUSTON, TX

WOODWARD-CLYDE CONSULTANTS
engineers • geologists • environmental scientists

Recognized leaders in:

- earth & environmental sciences & engineering
- geotechnical engineering
- waste management
- environmental regulatory issues & applications

2822 O'Neal Lane • Baton Rouge, LA 70816 • (504) 751-1873



FRANK D. EDWARDS
BRANCH MANAGER/ SR. CHEMICAL ENGINEER

P. O. Box 83277
BATON ROUGE, LA 70884-3277
504/756-2555 • FAX 504/756-2562



LINFIELD, HUNTER & JUNIUS, INC.
CONSULTING ENGINEERS AND ARCHITECTS

3500 North Causeway Blvd. / Suite 200
Metairie, Louisiana 70002
(504) 837-1666 / (504) 835-9933 fax

MAHL AND ASSOCIATES, INC.
CONSULTING ENGINEERS

GEORGE J. MAHL, III, P.E.

800 HICKORY AVENUE, SUITE 100
HARAHAN, LOUISIANA 70123
(504) 737-8904
FAX (504) 738-7770

Poché Associates
L I M I T E D
CONSULTING ENGINEERS • ENERGY MANAGEMENT CONSULTANTS

224 Rue Dejean, Suite 200 Lafayette, LA 70508 (318) 237-6517



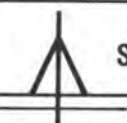
Geotechnical/Materials Testing
Cone Penetrometer Testing
Environmental Consulting
Drilling, Monitor Wells
Marine Geosciences
Marine Surveys

LAKE CHARLES, LOUISIANA
(318) 439-1731

LA Lazenby & Associates, Inc.
CONSULTING ENGINEERS & LAND SURVEYORS

JERRY G. LAZENBY, P.E., P.L.S.
FOY B. GADBERRY, P.E.
PAUL D. FRYER, P.E.

2000 North 7th Street • P. O. Box 726 • West Monroe, LA 71291-0726 • 318/387-7710
FAX 318/387-7718



SOIL TESTING ENGINEERS

GEOTECHNICAL CONSULTANTS

GEOTECHNICAL SOIL BORINGS LABORATORY TESTS ENGINEERING REPORTS
ENVIRONMENTAL GEOHYDROLOGY GROUNDWATER MONITORING SUBSURFACE PROTECTION
QUALITY CONTROL FILL INSPECTION MATERIAL TESTING FIELD LOAD TESTS

316 HIGHLANDIA DR. BATON ROUGE, LA. 504-752-4790
4100 LOUISIANA AVE. LAKE CHARLES 318-474-1340
104 E. MARKET RIDGE DR. JACKSON, MS 601-956-0851

BADEAUX & ASSOCIATES
INCORPORATED
CONSULTING ENGINEERS
STRUCTURAL/CIVIL
115 EAST SIXTH STREET (504) 447-2317
P. O. BOX 1056 THIBODAUX, LA 70302

J. Alvin Badeaux, P.E.
President



Civil/Structural Engineers

9229 Bluebonnet Boulevard
Baton Rouge, LA 70810
504•765•7400
FAX 504•765•7244



SPECIAL LICENSE PLATE

Engineers need recognition and identity. There are some 12,000 + Professional Engineers registered to practice in the state of Louisiana; and, even though you may not currently reside in Louisiana, be proud to display this identifying item.

The license plate illustrated above is available for all Professional Engineers registered by the state of Louisiana for \$10.00 postpaid. The plate is made of long-wearing fiberglass (size 6" x 11 $\frac{3}{4}$ "). We believe it will make an attractive addition to the front of your automobile.

RETURN YOUR ORDER FORM NOW!

LOUISIANA ENGINEER LICENSE PLATE

Mail to: LES

P. O. Box 2683

Baton Rouge, LA 70821

_____ I would like to order _____ plate(s) as specified.

_____ \$10.00 per plate enclosed

NAME _____

ADDRESS _____

CITY _____

STATE _____

ZIP _____



DECEMBER, 1994
LOUISIANA **ENGINEER**

Best Wishes



for the Holiday Season.

Professional EDGE

**21 High-Powered
Sessions
Designed
to
Sharpen
Your Skills
and Boost
Your
Productivity.**

Topics include:
Client Retention
Total Quality Man.
Project Management
CADD Management
GIS Bus. Opportunities
Doing Bus. in Mexico
Workforce 2000
Leadership Skills
Liability
Engineering Ethics
Team Building
Partnering
Int. Construction Trends
Persuasive Presentations
Business Development
Winning Proposals
Supervisory Skills



**National Society of
Professional Engineers**

The National Society of
Professional Engineers presents its

First Annual Professional Edge Conference

January 16-18, 1995

**Hyatt Regency
Houston, Texas**

Since you are an engineer in today's changing business climate, you should take advantage of this outstanding opportunity to:

- Update your knowledge base
- Sharpen your skills
- Network with peers and potential clients
- Earn up to 18 professional development hours for participation

About the Professional Edge Conference

Topic selection for the various seminars, interactive sessions, demonstrations, and workshops was based on survey feedback from engineers in Texas and the contiguous states. This conference, designed for ultimate flexibility, allows you the freedom to participate in multiple sessions each day, and ensures you can attend the sessions you want.

PLUS - An exciting Pre-Conference Banquet with featured speaker David Pearce Snyder, Life-Styles Editor of *The Futurist*.

For registration information please fax your name and address to Professional Edge Conference at
(703) 836-4875 or call **(703) 684-4817**.



About the Cover

Best Wishes for the Holiday Season.

In This Issue

Presidential Privilege	4
Engineers in Government	5
The Spec Sheet	6
The Washington Bulletin	8
Welcome New Members	9
Notre Metier	11
Calendar of Events	12
The State Legislative Bulletin	13
Reservation/Tentative Registration	
LES/ASCE Joint Meeting	14
The Society Reports	15
Bueto's Column	17

(Please note: Receipt of Louisiana Engineer Magazine does not necessarily mean that you are registered with the Louisiana State Board of Registration for Professional Engineers and Land Surveyors, or that you are a member of the Louisiana Engineering Society.)



STATE OF LOUISIANA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

10500 COURSEY BLVD. - SUITE 107
BATON ROUGE, LA 70816-4045
(504) 295-8522
FAX (504) 295-8525

Office Hours
Monday thru Friday
8:00 am until 4:00 pm

Chairman
Larry A. McKee, P.E./P.L.S.

Vice Chairman
Morris P. Hebert, P.L.S.

Secretary
Charles L. McDonald, P.L.S.

Other Members
Jorge M. Ferrer, P.E.
Lawrence Mann, Jr., P.E.
Vernon F. Meyer, P.E./P.L.S.
Merlin A. Pistorius, P.E./P.L.S.
Richard M. Primeaux, P.E./P.L.S.
Richard E. Ruckstuhl, P.E./P.L.S.
Sam L. Sullivan, Jr., P.E.
William J. Thevenote, Jr., P.E.

Executive Secretary
Paul L. Landry, P.E.

Deputy Executive Secretary
Michael B. Boudreaux, P.E.

PUBLICATIONS COMMITTEE
Chairman

Allison J. P. Launey, P.E.

Managing Editor

Leta G. Bueto

Publishing Consultant
Printing Incorporated



LOUISIANA ENGINEERING SOCIETY
P.O. BOX 2683, BATON ROUGE, LA 70821 TELEPHONE (504) 344-4318
STREET ADDRESS: 1213 NICHOLSON DR., BATON ROUGE, LA

LES OFFICERS AND BOARD

President

Edgar P. Benoit, P.E.

First Vice President

Carl A. Jakob, P.E.

Second Vice President

Robert A. Brossette, P.E.

Secretary-Treasurer

Ronald J. Rodi, P.E.

NSPE DIRECTORS

James L. Meyer, P.E.

Edgar P. Benoit, P.E.

STATE DIRECTORS

John J. Plaisance, II, P.E.

Ann Forte Trappey, P.E.

James N. Moore, P.E.

Theodore H. Thompson, P.E.

PAST PRESIDENT

Dale T. Hunn, P.E.

CHAPTER PRESIDENTS

Alexandria

Donald W. Clayton, P.E.

Baton Rouge

Steve M. Boudreaux, P.E.

Bayou

Kenneth W. Smith, P.E.

Lafayette

Susan H. Richard, P.E.

Lake Charles

Ronald R. Dupont, P.E.

Monroe

John H. Eason, P.E.

New Orleans

Lonnie G. Bassett, P.E.

Shreveport

Ruth L. Baker, P.E.

PRACTICE DIVISIONS

Construction

Roger D. Melancon, P.E.

Education

Bobby E. Price, Ph.D., P.E.

Government

Christopher D. Abadie, P.E.

Industry

Harold P. LeRay, P.E.

Private Practice

Foy B. Gadberry, P.E.

COMMITTEE CHAIRPERSONS

Constitution and Bylaws

Frederick J. Trahan, P.E.

Engineering Education

R.J. Yakupzack, P.E.

Young Engineers

Angela L. DeSoto, E.I.T.

Ethics and Professional Conduct

Foy B. Gadberry, P.E.

Honors and Awards

Glynn P. Gautreau, P.E.

Inter-Society Relations

John S. Bruce, P.E.

Legislative

Raymond G. Areaux, P.E.

Membership

Theodore H. Thompson, P.E.

Public Relations

John J. Plaisance, II, P.E.

Scholarship

Keith M. Warden, E.I.T.

Long-Range Planning

Robert A. Brossette, P.E.

Liaison Committee/State Board of Registration

James L. Meyer, P.E.

Louisiana Engineering Foundation

Charles L. Eustis, P.E.

EXECUTIVE DIRECTOR

Leta G. Bueto

The LOUISIANA ENGINEER is the official publication of the Louisiana Engineering Society. The LOUISIANA ENGINEER is the journal of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors. The magazine is published in February, April, June, August, October and December. Subscription \$2.17 per year for engineers registered in Louisiana and non-registered members of the Louisiana Engineering Society. Two dollars of each LES member's annual dues is set aside for six issues of the LOUISIANA ENGINEER. Second class postage paid at Baton Rouge, La. The Louisiana Engineering Society and the Louisiana State Board of Registration for Professional Engineers and Land Surveyors do not guarantee the accuracy of statements made or necessarily concur with opinions expressed in this publication. ISSN: (0024-6794)

POSTMASTER: Please send Change of Address Forms to LOUISIANA ENGINEERING SOCIETY, P. O. Box 2683, Baton Rouge, La. 70821. Telephone 504/344-4318, FAX 504/344-4319; 1213 Nicholson Drive, Baton Rouge, La.



Presidential Privilege

Edgar P. Benoit, P.E.
President
Louisiana Engineering
Society

MATHCOUNTS, CPC and Leta

There are times when I can't think of a topic. This is not one of those times. In fact, I have three topics and I have a lot to say about each. Lord, let me find the words.

MATHCOUNTS

One of the most satisfying moments as an engineer was my involvement in MATHCOUNTS. Volunteer a Saturday for MATHCOUNTS and I guarantee you will be glad you did. We need more "one-on-one" between engineers and mathletes. It will be one guaranteed feel good Saturday.

"It will be one guaranteed 'feel good' Saturday."

What is MATHCOUNTS? The typical response is that it is a math competition for 7th and 8th grade students. The best way to find out what MATHCOUNTS is about is by calling the chapter coordinator and spending a few hours on a Saturday morning finding out. You will be happy you did. MATHCOUNTS coordinators are listed below.

Alexandria Chapter
Anthony DeMarco, P.E.
(318) 448-0888

Baton Rouge Chapter
Philip K. Meyers, P.E.
(504) 927-5588

Bayou Chapter
Emery R. Chauvin, P.E.
(504) 868-1050

Lafayette Chapter
Christopher Richard, P.E.
(318) 232-5182

Lake Charles Chapter
Melissa Jessen, P.E.
(318) 433-0561

Monroe Chapter
Anthony D. Franks, E.I.T.
(318) 387-2710

New Orleans Chapter
Allison J.P. Launey, P.E.
(504) 582-4718

Shreveport Chapter
James Hagan, P.E.
(318) 221-8312

Mandatory Continuing Professional Competence(CPC)

The clear message is that the membership is against mandatory CPC at this time and the LES Board of Direction listened to that message. The Board voted to fight against the architects move to impose mandatory CPC requirements on civil engineers. The Board also voted to neither support nor oppose legislation enabling the State Board of Registration the power to require mandatory CPC for "land

surveyors only." Thanks to those who gave us the input. The results of the survey (October 1994) are as follows:

Question	Response
1. Support mandatory continuing professional competency	34
2. Against mandatory continuing professional competency	192
3. Neutral	4

Question	Response
1. I would support enabling legislation for land surveyors and engineers	36
2. I would support land surveyors only	5
3. I would be against enabling legislation	164
4. Neutral	9

Practice Divisions

1. Private Practice	101
2. Industry	77
3. Education	4
4. Government	45
5. Construction	24

"Thanks to those who gave us the input. ."

Leta's Retirement

Has there ever been an event in your life when so many emotions flood in that you don't know how you feel? Sadness and shock, happiness and heartache, joy and jealousy, anticipation and apprehension, are just a few of the emotions and reaction after the announcement of LETA's retirement.

Leta trained and guided the elected officers for years. She got the job done. She put up with multiple bosses, ever changing bosses and bosses who knew less than she did about the topic. She put up with tight budgets, small or no raises, and no or few employee benefits that many of us take for granted.

"Thanks for the years, Leta!"

Thanks for the years, Leta! I thank you, the Society thanks you, every engineer thanks you for your contributions, dedication and devotion to the engineering profession. Much happiness in your retirement. You earned it! LE

Engineers in Government



Louisiana Society of Professional Engineers in Civil Service

Engineering Services: Consultants Role With Government Agencies

By: Edward R. Wedge, P.E.

Public Information Committee Chairman

(Author's Note: The following article is a synopsis of an article published in the May 1994 issue of Engineering Times).

A recent report by the General Accounting Office (GAO) says that federal employees can cost the government less than consultants. To make their conclusion, the GAO studied contracting-out costs at the Department of Energy (DOE) and the Department of Defense (DOD), specifically looking at price, quality and service delivery.

An internal study by the DOE found an estimated average savings ranging from 26% to 53% when government employees did the job. An internal study by the DOD found the savings to be 37% to 51%.

However, while acknowledging the savings by using in-house staff, the GAO was quick to point out the advantages of using outside consultants. Consultants should be used when the services sought were short-term and nonrecurring in nature, when the timeliness of the service is important and when the service requires special skills or knowledge.

LSPECS believes that the long-term recurrent work should be accomplished in-house to assure the appropriateness, adequacy and consistency of all engineering standards, policy, and practice, therefore LSPECS has endorsed guidelines similar to the GAO's for the use of consultants. LSPECS feels it is appropriate to contract with consultants to: 1) ensure that all available funds are captured and used in a timely manner; 2) manage fluctuations in the Department's workload; 3) facilitate the expeditious use of locally raised funds; 4) access resources of expertise; 5) maintain a pool of consultants familiar with DOTD practice.

The National Society of Professional Engineers advocates and supports similar guidelines concerning engineering services for government projects. The NSPE states that public agencies should be competently and sufficiently staffed to perform the base load of long-term in-house engineering assignments, be supported by regular appropriations adequate for the maintenance of salaries and conditions of employment at professional levels, and be supervised by professional engineers within the management and policy making levels of the agency. The NSPE believes that consultants should be

retained by government agencies for projects that require specialized training or experience and for major programs beyond the long-term, in-house capacity of the public agency's in-house staff.

As similarly stated in the NSPE article, state legislators and department heads must weigh the evidence provided by the GAO (and similar studies by CALTRANS and the Texas DOT) when setting budgets and personnel limitations. Public agencies must maintain an adequate staff to handle the long-term recurrent workload and Department heads must be given the authority to hire and shift around personnel to handle this workload.

1995 DOTD Engineering Conference

Plans are beginning to take shape for the next DOTD Engineering Conference. Secretary Jude W.P. Patin has approved holding the conference February 5-8, 1995 in Baton Rouge at the Raddison Hotel. The conference is held every two years with the last one held in February 1993. DOTD engineers and other technical staff as well as representatives from private industry and local government will be in attendance.

The Conference Planning Committee and several working committees have been active over the last several months planning details of the meeting. Although plans have not been finalized, it is anticipated that the conference will open with a general session on Monday morning with 26 concurrent technical sessions spread over the remainder of the two and one-half days. Speakers will include both DOTD and outside experts. Vendor participation through displays and hospitality are also being planned.

Joe Baker, director of LTRC, is chairman of the Conference Planning Committee. Other committee chairpersons and their committees include Dennis Babin, program; Francis Becnel, arrangement/audio visual; Wilma Chustz, reservations/registration; Sal Faldetta, finance; Andrea Populus, communications/information; and Ronald Madden, hospitality/vendor display.

If anyone has suggestions, or wants further information, contact any of the committee chairpersons. LE

AS
INSURANCE
SPECIALISTS

SERVING DESIGN PROFESSIONALS IN PRIVATE PRACTICE

PROFESSIONAL LIABILITY INSURANCE

LOSS PREVENTION • RISK MANAGEMENT ASSISTANCE

ALEXANDER & SANDERS INSURANCE

9613 BROOKLINE • BATON ROUGE • 70809 • 504/924-1371

Design/Build: Good or Bad? . . .

The design/build method, combining engineering, architecture and construction into one package, is definitely here among us. Traditionally, most engineering projects have involved three separate parties: the owner, the design professional, and the constructor. Some say that the traditional method is good and design/build is, at best, risky business. Others feel that design/build is good as it hastens the completion of the total project. The American Consulting Engineers Council (ACEC) has deliberated tirelessly on the subject and, at its annual meeting this past May in Orlando, the ACEC Board of Directors approved the following position statements:

Traditional Design/Bid/Build Project Delivery System Position Statement

Background

Over the years, the vast majority of engineering projects have involved a traditional three-party system, (i.e., owner, design professional, and constructor). This system provides for the owner to directly select and contract with its design professional based on qualifications; followed by a separate contract for construction services.

The process allows for a systematic development of concepts, planning, design, bidding and construction of a quality project. The owner should first select a design professional firm. The best method of selection of the design professional firm is through Qualifications Based Selection (QBS). This selection should occur before concepts are decided and planning has begun. This allows teamwork to begin between the owner and the design professional early in the process and communicates needs and expectations of the owner and the design professional, which is an important ingredient to quality.

Once concepts and planning processes are complete, the independent design can begin with a focus on meeting the clients' needs and expectation. Once design is complete, the owner can bid the project to obtain the most cost-effective price for the construction of the project. Construction can then begin. During the construction, a team of the owner, design professional and the contractor can then complete the project. Each party brings an independent and important view relative to the successful completion of the construction project.

Position Statement

The American Consulting Engineers Council (ACEC) strongly believes that use of the traditional design and separate bid/build project delivery system should be the primary delivery system for public sector projects and is in the best interest of the owner as well as protecting the health, safety and welfare of the general public. By selecting an independent design professional through the Qualifications Based Selection process and utilizing the traditional three-party system, the owner is provided the checks and balances necessary to give the public the greatest degree of assurance that the project is the most appropriate and cost-effective solution.

Adopted: May 18, 1994

Design/Build Position Statement

ACEC believes in the value of a delivery system that guides the design of public and private facilities, is in the best interest of the owner, utilizes a qualifications-based selection (QBS) procedure for the design professionals, provides unbiased protection for the present and future infrastructure, and protects the health, welfare and life safety of the public.

ACEC recognizes that the traditional design/bid/build project delivery system is utilized for the majority of constructed projects. This system provides the owner and the public a great degree of assurance that the constructed facilities are the most appropriate solution for the project requirements.

ACEC also acknowledges design/build as an alternative project delivery process that is used in certain circumstances for private and public projects. There are many processes used today for design/build delivery systems.

As a public policy issue, when design/build is utilized, ACEC endorses a two step procurement and implementation process as the one that best protects the interests of the owner, design professional, contractor and the public.

Step 1: (Selection of Owner's Design Professional)

- a) A registered design professional (either in-house or retained) shall represent the owner throughout the entire project. The retained design professional shall be selected based on their qualifications and experience and shall be fairly compensated by negotiating a mutually agreeable contract.
- b) The design professional shall prepare design criteria, analyses, reports and cost estimates for the proposed project. ACEC recommends that the design professional shall develop the project design requirements to approximately the 35% design level.
- c) The design professional shall be responsible for assembling a design/build package that the owner can use to solicit proposals from design/build teams.
- d) Throughout design and construction, the design professional shall provide technical advice, construction review services and professional expertise on behalf of the owner.

Step 2: (Selection of Design/Build Team)

- e) The design/build team shall include a registered design professional(s). This design professional(s) shall be independent from the owner's and shall be selected based on qualifications and expertise. The design/build design professional(s) shall be named in the proposal and retained for the duration of the design/build project to provide design services, documentation and review.
- f) The owner shall select the design/build team on the basis of a solicited proposal based on criteria developed by the owner's design professional.



Consulting Engineers Section
Warren J. Wilder
CECIL Executive Director



- g) The design/build team shall coordinate all design and construction efforts so as to preserve and enhance the quality of the project and to ensure that the original design intent is achieved.
- h) Open channels for communication between the design professional(s) representing the owner and the design/builder shall be provided as a part of the working relationships. ACEC also recommends that provisions and procedures be implemented for communication among all parties, including the design/build team design professional and the owner of the design/build project.

Adopted: May 18, 1994

And While We're on Design/Build...

Preston H. Haskell, Chairman of the Design-Build Institute of America (DBIA), issued a memorandum recently which outlines a breakthrough on the role of the design community in this process. DBIA has adopted ACEC's legislative proposal on language governing the use of design professionals in Federal design-build procurements. Haskell's memorandum provides the basis for a very positive relationship between DBIA and ACEC. Here is the text of the memo:

During the past several months, we have all been working with the Administration, congressional staff, and one another in developing procurement reform legislation that would facilitate "two-phase selection" for design-build project delivery. I believe that we have now arrived at a consensus on this important matter.

The draft bill entitled "ACEC Proposal (6/28/94)" accords with DBIA policy as to best practices for competitive selection of a design-builder. In particular, this draft embodies the following important principles and practices:

- Design-build is an alternative delivery process to be applied under appropriate circumstances, but does not preclude the use of traditional delivery methods where more appropriate.
- The owner (agency) shall develop an appropriate criteria package to include project requirements, preliminary conceptual design, budget parameters and schedule requirements. The scope and extent of this package may vary according to project type and other circumstances.
- The criteria package should be developed by registered design professionals, either on agency staff or engaged by the agency under QBS procedures.
- Offerors should be shortlisted in the first phase on the basis of technical approach and qualifications. Award shall be made in the second phase on the basis of price and technical/qualitative factors.
- The basis for shortlisting and awarding should be clearly stated by the agency as part of the solicitation process.

- Honoraria may be awarded to unsuccessful second phase offerors.

I invite and encourage all industry associations to join with ACEC and DBIA in supporting this legislation. I believe that the Administration and the Senate will be supportive of this language, particularly if broad and unanimous endorsement is received from the industry. Further, it is my belief that in the House-Senate conference, the House conferees will concur in this bill for the same reasons.

I applaud all of you for your excellent work in bringing this matter to this point, and believe that it is a fine example of the constructive results that can be achieved through cooperation and consensus. My colleagues and I stand ready to assist further in any way that we can.

New TQM Video Course

Approved for Continuing Education Credit

JACKSONVILLE, FL —*Quality By Design (TM)*, a new TQM video course designed especially for A/E/C professionals, has been formally approved for continuing professional education by both the National Society of Professional Engineers and the American Consulting Engineers Council.

NSPE has approved the course for 1.6 Continuing Education Units (CEUs). ACEC has approved the course for 16 Professional Development Hours (PDHs)—the equivalent of 1.6 CEUs.

Engineers can use the CEUs and PDHs to fulfill state board of registration requirements for continuing professional education.

Developed by William M. Hayden Jr., *Quality By Design* is the first comprehensive TQM training program written by an A/E/C professional exclusively for other A/E/C professionals.

The six-hour course consists of three video tapes with on-screen programmed activities, a comprehensive workbook for hands-on use and a facilitator's guide for use in training employees.

"Individual engineers and consulting engineering firms can now use *Quality By Design* as tangible proof of their dedication to life-long learning and professional development," Hayden said. "For companies, the course is particularly beneficial since it can be used over and over to train employees at their place of work for a fraction of the cost of sending them to public seminars."

Additional information on the approved certification process can be obtained from NSPE at 703/684-2880 (FAX 703/836-4875) or ACEC at 202/347-7474 (FAX 202/898-0068). LE



The Washington Bulletin

Design-Build

Design-Build Language Dropped from Procurement Reform Bill. House-Senate conferees on procurement reform legislation have dropped from the final bill provisions contained in the Senate version that would have permitted federal agencies to procure design-build services through a two-phase selection procedure. The second phase would have required offerors to submit detailed proposals that include cost information. The legislation, the Federal Acquisition Streamlining Act (S.1587), should have reached the Presidents' desk in October.

NSPE participated in discussions with the provisions' authors, the U.S. General Services Administration and the U.S. Army Corps of Engineers, but did not endorse it because of concerns that the two-phase process may have weakened the qualifications-based selection (QBS) method of procuring architectural and engineering (A/E) services as prescribed under the Brooks A/E Act. Representative Jack Brooks (D-TX), the author of the Brooks A/E Act and a conferee on the procurement reform measure, insisted that the design-build provision be dropped from the final legislation because of its potential impacts on A/E procurement.

Nor does the final legislation contain any other provisions that modify the Brooks A/E Act itself. Earlier in the year key Senators had considered incorporating provisions that would have made the Brooks A/E Act optional. The battle to protect QBS is likely to continue in the next Congress in the form of extensive hearings and possible new legislation.

Engineers in Congress

NSPE Hosts Luncheon for PE Members of Congress. NSPE President Monte L. Phillips, Ph.D., P.E., recently hosted a luncheon to recognize the three professional engineer members of Congress: Joe Barton, P.E. (R-TX), Jay Kim, P.E. (R-CA), and Lewis F. Payne, Jr., P.E. (D-VA). The luncheon, held in the U.S. Capitol, was historic in that it was the first time that the three PE members of Congress had met together to discuss issues of concern to the engineering profession.

The members appeared honored to be recognized for their distinction as licensed engineers holding federal legislative office. In their remarks, however, the members expressed the need for more engineers to join them as elected officials, not only because the legislation they consider is becoming increasingly technical, but also because engineers engage in a more rationale decision-making process than is typical of the legislative arena.

In his remarks, Phillips highlighted several of NSPE's legislative priorities, including support for the Brooks A/E Act, which requires federal agencies to procure design professional services on the basis

of qualifications; concern with federal legislation that establishes environmental specialty certifications that conflict with state licensing laws; liability relief for engineers and others providing remediation services at Superfund sites; and opposition to proposals that would require engineers to warrant or guarantee their design work.

The luncheon also provided the members an opportunity to raise some of their issues. For example, Rep. Kim urged NSPE to lend its support to legislation he has introduced that would take the highway, airport, and other infrastructure trust funds off-budget.

The interchange between the PE Members of Congress and NSPE was successful. NSPE plans to host a luncheon annually to continue the dialogue.

Guaranty/Warranty

GAO Issues Report on Highway Quality. The U.S. General Accounting Office (GAO) has released a long-awaited report on the means of improving the quality of highway construction. The report includes recommendations on the use of guaranty/warranty clauses in federal-aid highway projects. NSPE member Kermit Prime, Jr., P.E., participated in GAO's study through interviews with GAO staff. NSPE also submitted written comments.

The report is consistent with NSPE's recommendations in that it does not call for mandatory guaranty/warranty clauses for design professionals in federal-aid highway projects. The study does, however, recommend that the Federal Highway Administration (FHWA) continue to promote the states' experimentation and implementation of guarantees/warranties and to adopt model guaranty/warranty provisions that detail their duration, the types of failures they should target, and suggested performance specifications.

Although the GAO recommended continued state experimentation, they concluded that the use of guarantees/warranties as a means of promoting highway quality is uncertain, since evidence on their advantages and disadvantages is limited.

Congress mandated the GAO report in the 1991 Intermodal Surface Transportation Efficiency Act (ISTEA) as an alternative to proposals that would have authorized states to include designer and contractor guarantees/warranties in federal-aid highway projects. NSPE led the design professional community in persuading Congress to drop the provision and substitute it with the GAO study instead.

NSPE plans to formally respond to the GAO report during hearings in the 104th Congress.

Construction Safety

NSPE Recommendations Adopted by OSHA Work Group. The Engineering Work Group, a task force of the Occupational Safety and Health Administration (OSHA) Advisory Committee on Construction Safety and Health, recently completed its review of and recommendations to OSHA on construction regulations as they impact professional engineer involvement in construction and the extent of such involvement. NSPE member Charles A. Worischek, P.E., actively participated on the Work Group and prepared the substance of the recommendations eventually adopted. Key among the recommendations is that OSHA should issue a compliance directive stating that wherever the term "engineer" is used in its construction regulations, compliance officers are to interpret the term to mean "a professional engineer, licensed or registered in the state where the work is to be performed, and who is designated and agrees to perform the required tasks as contained in [the regulation]."

The Work Group's recommendations have been forwarded to its parent advisory committee. If that committee concurs with them, OSHA could then issue a compliance directive to implement many of the recommendations. Some recommendations may require formal rulemaking.

Steel Erection Proposal Concerns NSPE. The Steel Erection Negotiated Rulemaking Advisory Committee (SENAC) of the

Occupational Safety and Health Administration (OSHA) has begun meetings to develop regulations for steel erection activities. Portions of the SENAC's proposal appear to be in conflict with NSPE policy on the responsibility of engineers during construction. NSPE is concerned that the SENAC proposal could make design professionals liable for construction site safety.

Among the items included in the SENAC draft is a "proposal to properly allocate accountability for construction worksite safety." This proposal is intended to "get responsible parties such as owners and designers more involved in the construction safety process." The draft defines "statutory employer" as including: "owners, owners' agents, architects, design engineers and lawyers, as well as construction contractors and subcontractors." Significantly, the SENAC has agreed that its recommendation on allocation of accountability should apply to all construction activities, not only to steel erection.

NSPE is working with other design professional groups to coordinate the profession's response to the SENAC draft. Also NSPE will be participating in upcoming SENAC meetings. *LE*

[Reprinted from NSPE Washington Bulletin, September and October 1994]

Welcome New Members

Baton Rouge Chapter

Dennis Broussard, P.E.
Matt Marcontell, E.I.T.
Tod A. Myrum, Ph.D., P.E.

Bayou Chapter

Chris A. Labat, E.I.T.
Marco Picciola, P.E.

Lafayette Chapter

Brian Begnaud, E.I.T.
Russell C. Hibbeler, P.E.

Lake Charles Chapter

Roy D. Hampton, E.I.T.
Roy Johnston, P.E.

Monroe Chapter

Matt Clausen, E.I.T.

New Orleans Chapter

Bernice I. Kachur, E.I.T.
Mark A. Knobloch, P.E.
James W. Meyer, P.E.
Jefferson W. Watkins, P.E.

Shreveport Chapter

Michael K. Dunavant, P.E.

LOUISIANA ENGINEERING FOUNDATION

Honor Your Loved Ones

The Louisiana Engineering Foundation's Memoriam Program is a most appropriate way to recognize our deceased engineers and loved ones. Contributions are tax deductible and checks should be made payable to LEF.

A Memoriam Plaque hangs in the Foundation Headquarters Building. The name of the deceased and date of death are engraved on individual brass plates.

In lieu of flowers, send a contribution to LEF using the form below. Letters of acknowledgement are sent to the family of the deceased.

Name of deceased: _____

Date of death: _____

Send acknowledgement to: _____

Address: _____ Zip Code _____

Name of donor: _____ Tel. No. _____

Address _____ Zip Code _____

☐ Enclosed is check covering a contribution of \$ _____

The Louisiana Engineering Foundation MEMORIAM PLAQUE This Recognition Honors Those Who Have Passed Our Way

- | | | | |
|---|---|--|--|
| 1. Frank Forte
10-23-81 | 15. Tim P. Landry
06-11-85 | 29. Theresa A. Virgillio
03-15-90 | 43. Roy S. Kelley, P.E.
04-01-93 |
| 2. Hubert G. Sneed, P.E.
03-09-82 | 16. J. E. Jarman
06-11-85 | 30. T. J. Hogue, P.E.
03-28-90 | 44. Paul Phelps
03-10-93 |
| 3. Albert "Buddy" Switzer, P.E.
08-23-82 | 17. Mary M. Spears
07-03-85 | 31. Samuel J. Helfman, P.E.
04-26-90 | 45. Betty S. D'Antoni
06-10-93 |
| 4. Shepard F. Perrin, Sr., P.E.
10-07-42 | 18. George F. Matthes, P.E.
07-20-85 | 32. Carl H. Thomas, P.E.
06-30-90 | 46. Irma B. Gautreau
01-30-90 |
| 5. Mrs. Shirley Stevens
09-16-82 | 19. Robert M. Cook, P.E.
09-20-85 | 33. Charles F. Bean
07-25-90 | 47. Lionel J. Cucullu, P.E.
06-25-93 |
| 6. Louis J. Capozzoli, Sr.
10-08-82 | 20. Wendell C. Sorensen, P.E.
09-26-85 | 34. James N. McDonald, P.E.
07-07-90 | 48. Mrs. Evelyn Derussy Markel
08-16-93 |
| 7. Thomas J. Dean
01-11-83 | 21. E. Hiram Hebert, P.E.
09-03-86 | 35. Mrs. Molly Helfman
05-15-90 | 49. Omer J. Hebert, P.E.
11-12-93 |
| 8. R. J. Robertson, P.E.
06-17-83 | 22. Charles P. Hoyt, P.E.
11-04-86 | 36. Vincent A. Forte, P.E.
05-26-91 | 50. Ernest E. Maddox
01-04-94 |
| 9. Allen J. Gautreau, Sr.
09-22-81 | 23. R. J. "Tom" Cambre
11-26-86 | 37. Shepard F. Perrin, Jr., P.E.
01-29-92 | 51. Lawrence "Larry" Paulk, P.E.
03-08-94 |
| 10. William B. Gurney, P.E.
11-26-83 | 24. A. P. Batchelor, P.E.
01-01-87 | 38. Capt. William Heuer, Jr.
04-16-92 | 52. Mrs. Francis R. Cavell, Sr.
10-13-94 |
| 11. Mr. Otis Hiter
04-01-84 | 25. Yvonne MacDonald
11-19-82 | 39. Wayne P. Wallace, P.E.
03-13-92 | 53. Michael A. Schulz, Jr., P.E.
11-10-94 |
| 12. Anthony Cardinal
11-17-84 | 26. Ronald A. Muller, P.E.
09-23-87 | 40. James N. Aronstein, Jr.
10-31-92 | |
| 13. S. J. "Bay" Cardinal
12-16-84 | 27. John Goodman Blanche, Jr.
10-30-88 | 41. S. Allen Munson, Sr.
11-05-92 | |
| 14. William A. Wintz, Jr., P.E.
01-16-85 | 28. Joseph Bradford Lancaster
02-08-89 | 42. Francis C. Roy, P.E.
02-12-93 | |

*This Memorial Plaque hangs in the meeting room of the Foundation.
Since 1981, a total of \$8,572 has been received in memorials.*



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



ENFORCEMENT CORNER

by: Benjamin S. Harrison

Disciplinary Action Summary

In a recent hearing the Board found a surveyor and his firm guilty of gross negligence in the practice of land surveying, and of violating Board Rule 2103(C). Gross negligence is defined in the Board Rules as:

Gross negligence shall mean the practice of engineering or land surveying by a registrant characterized by his/her lack of reasonable care, precaution, or attention to the right, safety, or welfare of others, which could result in injury or damage to life or property or financial loss. Examples of practice which the Board may consider to constitute gross negligence include, but are not limited to:

1. The preparation of an incomplete or inaccurate engineering or land surveying plan or document that is below acceptable standards, which is released for construction or other lawful purposes, and which could result in financial loss or injury.
2. Failure of the registrant to exercise reasonable diligence and care in providing professional services, which could result in financial loss or damage or injury.

Board Rule 2103(C) mandates that "Registrants shall approve and seal only those design documents and surveys which are safe for public health, property and welfare, which are complete and accurate, in conformity with accepted engineering and land surveying standards or practice; and which conform to applicable laws and ordinances."

For these violations, the Board ordered that the surveyor and his firm be placed on probation for one year. During the one year probationary period, they are to provide the Board with written quarterly reports describing surveying services they provided during that quarter, and attaching to each report a minimum of five property boundary survey plats prepared by them during that quarter.

Disciplinary Action Summary

On June 6, 1994 a hearing was held concerning charges against Lester A. McLin, Jr., P.L.S., and McLin Land Surveying, Inc., both registrants of the Board. In a formal complaint filed with the Board by Ronald A. Wright, Respondent Lester A. McLin, Jr., P.L.S., was charged with providing land surveying services that were not in conformity with the Minimum Standards of Property Boundary Surveying promulgated by the Board. The Board subsequently filed formal charges against McLin Land Surveying, Inc., alleging that the land surveying services at issue were provided through that firm as well as by McLin individually.

McLin was retained by a title company to perform a property survey in Livingston Parish, and was paid \$700.00 for those services. Numerous problems were encountered by his crew in the field, which over time necessitated the drafting of three plats of survey. Complainant Ronald Wright commenced clearing the property after receiving the first plat of survey, which was later found to depict erroneous property boundaries. An Act of Correction of the title to the property was made based on the final (third) plat of survey.

The Board found Respondents in violation of the Minimum Standards of Property Boundary Surveys on all three plats of survey, and expressly held that the Minimum Standards must be followed by all surveyors when performing any property survey, including surveys designated by some as "mortgage surveys." A "mortgage survey" is a property boundary survey governed by the Minimum Standards of Property Boundary Surveys, 46 Louisiana Administrative Code, Part LXI, Chapter 25. The violations of the Minimum Standards found on the three plats of survey at issue included, without limitation: violation of the purpose of the boundary survey - which is to locate or relocate the physical position and extent of the boundaries of real property, and the discovery of visible evidence of prescriptive rights or adverse possession relating thereto; no closure along boundary line with Amite River; encroachments located by survey crew not shown on map; fence and monuments not shown; no bearing reference; distance difference on north and south property lines not shown and no certification [Board Rule 2507(B), (F), (G)].

The Board ordered that for violating the Minimum Standards, Respondents should receive a public reprimand. Publication of a synopsis of the facts, violations found and disciplinary action taken by the Board, identifying Respondents by name, in both the *Louisiana Engineer* and *L'Arpentier Louisiane*, constitutes this public reprimand.

SCHEDULE OF EXAMINATION DATES

Examination	Examination Date	Application Postmark Date
Principles & Practice of Engineering (8 hr.) Civil (Including Structural & Sanitary), Chemical, Electrical, Environmental & Mechanical	04/07/95 10/27/95 04/19/96	01/09/95 07/31/95 01/22/96
Agricultural, Control Systems, Industrial, Metallurgical, Mining, Nuclear and Petroleum	10/27/95 10/25/96 10/31/97	07/31/95 07/29/96 08/04/97
Principles & Practice of Land Surveying (6 hr.)	10/27/95 04/19/96	05/01/95 10/23/95
LA Laws & Procedures of Land Surveying (2 hr.)	04/19/96 04/18/97	10/23/95 10/21/96
Fundamentals of Land Surveying (8 hr.)	10/28/95 04/20/96	05/01/95 10/23/95
Fundamentals of Engineering (8 hr.)	04/08/95 10/28/95 04/20/96	01/09/95 07/31/95 01/22/96

Application — NOT Pre-application — must be postmarked not later than the date indicated before an applicant will be considered for the respective examination. Note that the approximate interval between postmark dates and examination dates is 180 days for land surveying examinations 90 days for engineering examinations.

The Board may schedule an applicant for an examination later than the examination requested by the applicant and cannot guarantee that the applicant will be scheduled for the examination initially requested.

An oral examination will be scheduled for Professional Land Surveyor applicants prior to any required written examinations.

If you are applying for reciprocity registration and examination may not be required.

BOARD MEETING NOTICE

The Louisiana State Board of Registration for Professional Engineers and Land Surveyors will hold its regular meetings at 10500 Coursey Blvd., Suite 107, Baton Rouge, Louisiana 70816-4045 on the following dates.

1995

Jan. 23-24	July 24-25
March 20-21	Sept. 25-26
June 5-6	Nov. 6-7

POSITION AVAILABLE

Chief Geotechnical Engineer (Vice President)

Minimum 10 years experience, professional engineer, strong technical and management skills: Competitive salary, performance bonus, stock ownership. Please mail resume to: Geotech Engineering and Testing, Dept. VP, 5889 West 34th Street, Houston, Texas 77092.



1995 - State of Louisiana Board of Registration for Professional Engineers and Land Surveyors.

Front Row (left to right): Morris P. Hebert, P.L.S., Vice-Chairman; Larry A. McKee, PE/PLS Chairman; Charles L. McDonald, P.L.S., Secretary

Back Row (left to right): Merlin A. Pistorious, PE/PLS; Paul L. Landry, P.E., Executive Secretary; Sam L. Sullivan, Jr., P.E.; William J. Thevenote, Jr., P.E.; Lawrence Mann, Jr., P.E.; Richard M. Primeaux, PE/PLS; Richard E. Ruckstuhl, PE/PLS; Benjamin S. Harrison, Board Investigator; Vernon F. Meyer, PE/PLS, Secretary-Elect; Jorge M. Ferrer, P.E.

CALENDAR OF EVENTS

We invite all technical and professional organizations to submit their meeting dates for publication in the *Louisiana Engineer* to: Editor, P. O. Box 2683, Baton Rouge, LA 70821.

January 1995

- 6 LES Board of Direction Meeting
New Orleans, LA
- 12-18 NSPE Winter Meeting, Hyatt Regency
Houston, TX
- 23-24 State Board of Registration Meeting
New Orleans, LA

February 1995

- 19-25 National Engineers Week
Theme: "Engineers: Turning Ideas Into Reality."

March 1995

- 4 State MATHCOUNTS Competition
Holiday Inn Holidome
Baton Rouge, LA
- 15-18 LES/ASCE/CEC Joint Meeting
Holiday Inn Downtown
Shreveport, LA
- 20-21 State Board of Registration Meeting
Baton Rouge, LA



The State Legislative Bulletin

Hazardous Waste Site Remediation

The states are exploring and implementing regulatory programs that are distinct alternatives to the traditional "command and control" approach to regulating hazardous waste sites. The traditional system has proven to be a costly, staff-intensive, time-consuming, and possibly ineffective system for remediating all of the levels of hazardous waste sites. Increasingly, states are focusing attention on those sites that are not sufficiently contaminated to fall under the regulation of stringent federal hazardous waste programs (Superfund or the Resource Conservation and Recovery Act), yet may nevertheless contain a level of contamination that merits some attention. Often these sites are located in decaying or blighted urban industrial areas, dubbed "brownfields." Officials wish to attract new industries to these brownfield sites rather than to pristine "greenfields" in the suburbs or rural areas, but are hampered from doing so because industry is wary of the presence or potential presence of contaminants at the brownfields. Consequently, state governments are establishing alternative regulatory schemes, including "privatization" and "voluntary cleanup," to expedite the investigation and remediation of the less threatening hazardous waste sites.

These new regulatory approaches directly impact the engineering profession. Under these new programs: PEs may be requested to assume additional responsibility on the owner's behalf; PEs may be asked to perform managerial and administrative functions traditionally within the province of government agencies; PEs may be required to obtain new licenses or certifications in order to continue their existing practice; and, PEs may face greater competition as other professions and occupations gain recognition through new state hazardous waste professional licensing laws. Because of these and other concerns, NSPE's state societies should be vigilant to proposed alternative hazardous waste regulatory programs in their states. Societies should evaluate how such proposals will affect professional engineering licensing and practice.

The following reviews recent state activities in the hazardous waste licensing and certification area.

Massachusetts - In 1992, the legislature adopted major amendments to its hazardous waste statute, including provisions that delegate a substantial portion of the state's hazardous waste regulatory authority to private parties. The law requires the state Department of Environmental Protection (DEP) to establish a permit system whereby some parties may carry out response actions without prior issuance of a permit. **In lieu of the state permit, these parties are required to obtain a "waste site cleanup activity opinion" from a licensed hazardous waste site professional (LSP) before proceeding with their response action.** The LSP will offer his or her professional opinion as to whether 1) any one or more of a variety of proposed response actions are sufficient for protecting the public health, safety, welfare, and the environment and for complying with the provisions of the state hazardous waste law; or 2) whether a DEP permit is required before the response action can proceed.

The statute also establishes a **Board of Registration of Hazardous Waste Site Cleanup Professionals** with full administrative and enforcement powers similar to those of other licensing boards.

The board has established through rulemaking the following qualifications for site professional licensure: 1) bachelor, master or doctorate degree in any one of 29 fields of study, including engineering; 2) eight years of total professional experience, five of which must be "relevant professional experience." Relevant experience is defined as a combination of waste site cleanup decision making experience and practical experience (application of technical knowledge and skills during assessment, containment, or removal projects); and 3) passage of an examination that tests overall regulatory understanding and overall technical understanding. **PEs do not automatically qualify for the LSP license.**

Since the law's passage, officials from other states have invited DEP staff to make presentations on their innovative program. Some states are copying the Massachusetts model. Also noteworthy

from the first year of operation of the licensing program is that a professional association, the Licensed Site Professional Association of Massachusetts, has been formed. Because of the multi-disciplinary composition of LSPs, this association could form the basis of a broader "environmental professional" movement in the state.

Ohio - The Governor has signed legislation from the 1994 session that establishes a voluntary cleanup and industrial reuse program. Under the act, private owners are authorized to undertake voluntary remediation measures and then demonstrate to the Ohio Environmental Protection Agency (OEPA) that such measures meet applicable standards. **The new law requires owners to retain environmental professionals who have been certified by the OEPA for the purpose of issuing "no further action" letters. The environmental professional will certify that the property and any remedial actions undertaken at it comply with applicable federal and state remediation standards.** The OEPA is charged with establishing certification criteria and procedures. As an interim standard while the OEPA develops final standards, the law deems the following as "certified": licensed PEs; geologists certified by the American Institute of Professional Geologists; and, individuals holding a master degree or higher in toxicology. To be certified, individuals in each of these categories must also have at least five years practical experience in the investigation and remediation of or the assessment of risk associated with releases of hazardous substances or petroleum into the environment.

New Jersey - Pursuant to a legislative mandate to examine the issue, a task force of the state Department of Environmental Protection and Energy (DEPE) issued a report in late 1993 recommending that New Jersey adopt a licensing program, identical to the Massachusetts model, to privatize a portion of the reviews and approvals required for the remediation of some sites under the

Continued on page 16

Hotel Reservation Card
Joint Meeting
Louisiana Engineering Society and
American Society of Civil Engineers
March 15-18, 1995
Holiday Inn Downtown, Shreveport, LA

**CLIP OR
REPRODUCE &
MAIL TO:**

**HOLIDAY INN
DOWNTOWN**
102 Lake Street
Shreveport,
LA 71101

(318) 222-7717

Please register early. Reservations must be received by FEBRUARY 16, 1995. On that date the rooms will be placed on a first come, first serve basis.

Your Arrival Date _____ Your Departure Date _____

Name (print) _____

Address _____

City _____ State _____ Zip _____

Room cost is \$69.00 plus tax for single, double, triple or quad occupancy.

All reservations on Monday thru Thursday require a credit card deposit.

Credit Card and Number _____ Expiration _____

Hotel accepts American Express, Visa, Master Charge, Diners Club, Carte Blance and Holiday Inn Corporate Card.

TENTATIVE REGISTRATION FORM
LES/ASCE JOINT MEETING

LES HONORS AND AWARDS MEETING
 1995 ASCE SPRING MEETING

MARCH 15-18, 1995
 SHREVEPORT, LA

REGISTRATION FEES¹

	NO.	Cost		Sub-Total
Members Pre-Registered ²	_____	@ \$30.00	=	\$ _____
Members not Pre-Registered	_____	@ \$40.00	=	\$ _____
Spouses	_____	@ FREE	=	\$ 0.00
Students	_____	@ \$10.00	=	\$ _____

WEDNESDAY GOLF TOURNAMENT³

Members/Guests	_____	@ \$35.00 ³	=	\$ _____
----------------	-------	------------------------	---	----------

THURSDAY ICE BREAKER

Students & Members				
Pre-Registered	_____	@ FREE	=	\$ 0.00
Members Not Pre-Registered	_____	@ \$15.00	=	\$ _____
Spouses/Guests	_____	@ \$15.00	=	\$ _____
Students Not Pre-Registered	_____	@ \$15.00	=	\$ _____

FRIDAY LUNCHEON

Members	_____	@ \$12.00	=	\$ _____
Spouses	_____	@ \$12.00	=	\$ _____
Students	_____	@ \$ 6.00	=	\$ _____

FRIDAY AWARDS BANQUET

Members	_____	@ \$22.00	=	\$ _____
Spouses	_____	@ \$22.00	=	\$ _____
Students	_____	@ \$15.00	=	\$ _____
Award Recipient	_____	@ FREE	=	\$ 0.00

TOTAL FEES REMITTED

\$ _____

1/Registration Fees are required for anyone attending the conference seminars on Thursday and Friday.

2/Prepaid discount applies only if registration and payment are received by March 1st.

3/Estimated cost. Time and location to be announced in the February 1995 issue. Open to everyone.

NAME _____ ☐ P.E. ☐ E.I.T. ☐ NONE

SPOUSES NAME (If Attending) _____

MAILING ADDRESS _____ CITY _____ STATE _____ ZIP _____

COMPANY/UNIVERSITY _____

TELEPHONE: WORK () _____ HOME () _____

PLEASE INDICATE YOUR ASSOCIATION AFFILIATION BELOW:

☐ LES ONLY ☐ ASCE ONLY ☐ LES/ASCE ☐ CEC/L ONLY ☐ CEC/L/LES/ASCE ☐ SWE ☐ ASPE

PLEASE MAKE CHECKS PAYABLE TO: LES/ASCE CONFERENCE

Mail this form and payment to: LES/ASCE Conference, LES State Office, P.O. Box 2683, Baton Rouge, LA 70821.

A Complete program will be printed in the February 1995 Issue of the *Louisiana Engineer*.

The Society Reports

Alexandria Chapter News

by: Donald W. Clayton, P.E.

Alexandria Chapter President

The Alexandria Chapter has been very active this year. Our meeting schedule is such that every alternate month is a business meeting with a guest speaker and the other month is a social function of some kind. This has worked well for the Chapter as we get a chance to discuss things of a technical nature during business meetings and then can socialize with spouses at the other functions. At our September meeting, we were fortunate to have Mayor Ned Randolph talk about Alexandria and the "All American City" award. This is indeed a prestigious award. Out of several hundred cities nationwide that competed, Alexandria is one of ten in the country to be honored.

One of the reasons that Alexandria was chosen was its "community involvement" and forward looking approach to our problems. As you may be aware, several years ago England Air Force Base was closed. This community, through its civic, business and elected officials, made plans to do something with an asset rather than moan and groan about a loss.

The same analogy holds for LES. This organization is an asset to engineers in the state. There are a lot of problems that we confront: continuing loss of membership, declining revenues, continuing professional competency, and general involvement with LES by its members. We are challenged to become involved and to plan for our future not just let it happen.

New Orleans Chapter News

by: Lonnie G. Bassett, P.E.

New Orleans Chapter President

*High quality newsletter contributes to success of
New Orleans Chapter*

Each month the New Orleans Chapter Newsletter is circulated to 800 members with consistently high quality announcements and articles. The newsletter is always a printed, six page publication containing dynamically written material to capture and hold the interest of busy professionals.

A devoted editor, James L. Rike, P.E., and his staff make outstanding use of publication talent and print shop capabilities. All programs are covered by a description preceding the event and by a thorough report following the event. All type is set in easily readable style, and pictures are frequently included to enhance the presentation.

The New Orleans Chapter Newsletter goes well beyond reporting the Chapter news and events. It includes important news of the Society on subjects like MATHCOUNTS, infrastructure, and Qualifications-Based Selection. In addition, it includes special interest articles such as:

- Public Perception of Engineers
- Key Elements of Japanese Competition
- How a Dowser is Used to Find Water
- Technical Presentations on TV
- Conversion of Waste Plastic Into Oil
- Technical Progress Over the Years
- Advances in Quality Control

As illustrated by the New Orleans Chapter, an outstanding newsletter and Chapter success go hand-in-hand.

Long Range Planning Committee Report

by: Robert A. Brossette, P.E.

Chairman and Second Vice President

The Long Range Planning Committee is comprised of six members and the Second Vice President presiding as Chairman. Each member serves a two year term with three members rotating off the Committee each year. The three members rotating off the Committee each year are replaced by three new Committee members appointed by the incoming President and Second Vice-President.

The purpose of the Long Range Planning Committee is to develop, continuously monitor and recommend long and short range goals and procedures for the LES Board of Direction to consider.

Each year there are contemporary issues confronting the Committee that can deplete the Committee's resources. This year is no different. The proposed reorganization of NSPE, membership recruitment and development, continuing professional competency, and changes in the state registration law are just some of the current issues that can be addressed by the Committee. It is very easy to commence attacking and solving current every day problems. We are, after all, engineers and it is more fulfilling and satisfying to see the immediate results of our labor and efforts than it is developing plans for future contingencies. However, it is essential that the Long Range Planning Committee, while being cognizant of the short term issues and 'present' state of the LES, focus on developing and outlining plans that will position the LES to adapt to unforeseen pressures and tensions that can adversely impact the organization. If planning is successful, the organization will be resilient and flexible and will survive and grow during chaotic times.

Is the future state of the LES one in which all engineers must be registered to practice engineering, and mandated to obtain a minimum of continuing education units? Will there be an engineering exit exam given by only two state ABET engineering schools? Will there exist a LES? What will the organization look like? What will be the diversity of its members? The 'future' state of the LES is indeed one which will be effected by plans and decisions made today.

Do we have answers for all these questions? No!

Are these all of the changes that could occur? No!

Will we be accurate in our deliberations and decisions? No!

Must be attempt to plan for contingencies? Yes!

Long range planners know that there is one chance in infinity of being absolutely right, and accept this as fact. They understand that their decisions must weather the test of time and be robust enough to operate within an ever changing environment. That's the objective of the Long Range Planning Committee.

Professional Engineers in Industry

by: Steve Boudreaux, P.E.

Baton Rouge Chapter President

Member of Professional Engineers in Private Practice

Over the past two months I have been privileged to sit in on two of the Industrial Advisory Committee (IAC) meetings. The IAC has

been set up by the Board of Registration to discuss industry operation and functions as related to Louisiana Revised Statute 37:701 (C).

At the heart of the matter is the phrase of an industrial exemption applying to "industrial operations, including, but not limited to, producing, processing, manufacturing, transmitting, distributing, or transporting." However, the statute continues and states this exemption does not apply to "any of these activities ... within the definition of the practice of engineering." In other words, engineering functions and duties were never exempted.

The Board of Registration, in the June issue of the of the *Louisiana Engineer*, issued a "Notice of Intent" to help engineers better understand R.S. 37:701 (C). It contained additional definitions concerning "the supervision and charge of a professional engineer" and "employees" within an industry environment. However, these definitions do not further define the practice of engineering in an industry setting. Instead, they clarify the duties of a supervising professional engineer and clearly define who can be considered employees of an industry.

The IAC developed a questionnaire to gather data on "Engineers in Industry." The results circulated by the Louisiana Association of Business and Industry, the Louisiana Chemical Association, and the Louisiana Mid-Continent Oil and Gas Association showed statistics many expected. Of over 1,400 respondents, 63% have passed the Fundamentals of Engineering Test (EIT), with 83% having practiced for at least four years. Only 20% of the respondents are registered PEs in Louisiana.

The practice areas of these engineers varied, although a large portion listed engineering as their primary or secondary function. Process engineering made up 30%, project engineering made up 34%, and design engineering made up 25% of the responses. These areas of practice, in my opinion, fall within the definition of the practice of engineering as described in Paragraph (8) of Section 682 of the Registration Law for Professional Engineers and Land Surveyors.

Over 30% of the respondents listed project management/supervision as a primary or secondary job function. Even within this job function there are engineering related activities requiring specific knowledge and experience. Depending on the actual work, these activities could fall within the practice of engineering.

The reasons for not registering varied from:

- Did not perceive a need to register (45%)
- Never took the Principles and Practice Test (44%)
- No perceived benefits from registration (40%)
- The company did not encourage registration (31%)

Whatever the reason, a license was not perceived as a significant step in climbing the career ladder.

Do these engineers want to register? **Yes!** Over 81% indicated they would probably register if the Board temporarily reduced registration requirements. Over 76% indicated they would be willing to take a Principles and Practice Test more related to their job.

The IAC concluded measures must be taken to register these engineers. They are recommending practicing engineers in industry:

- with over 15 years experience and an ABET accredited degree be registered without examination,
- with over 10 years but less than 15 with an ABET degree be registered after passing either the EIT or PE,
- with less than 10 years meet the existing requirements.

The LES is considering these recommendations. We need your opinions to represent our profession. Please call your local chapter president with any comments.

The IAC is commended for their many hours of hard work and a sincere desire for a solution satisfying the registration law intent while minimizing hardship to industry and their engineers. **LE**

The State Legislative Bulletin

Continued from page 13

jurisdiction of the Department. The task force recommended providing licensed site professionals the authority to oversee planning and implementation of the assessment of and remedial actions at contaminated sites in accordance with DEPE rules.

Since the report was issued there has been a change in governors; the current Administration has not yet stated its position on the licensing proposal. The report, which included legislative recommendations, was distributed to all state legislators, any one of whom could introduce the legislation.

North Carolina - The legislature adopted a bill in its 1994 session that **authorizes the state environmental agency to select and hire private environmental consulting and engineering firms to implement and oversee voluntary remedial actions on the state's behalf.** The law also encourages the state's Environmental Review Commission to **study the possibility of establishing licensure of site professionals, similar to the Massachusetts model.** **LE**

[Reprinted from NSPE State Bulletin, October 1994]

Key Position with the Sewerage & Water Board of New Orleans

The Sewerage and Water Board of New Orleans is seeking applicants for the position of Deputy General Superintendent (Civil Service Class Code 3038; Announcement No. 7016).

The S&WB is the water, sewerage and drainage utility serving the City of New Orleans.

The Deputy General Superintendent will report to the General Superintendent and be responsible for engineering and administrative duties in the management of all field operation functions and activities for the agency. The salary range is \$3,581 to \$5,600 per month.

Minimum qualifications are:

— A Bachelor of Science degree from an accredited college or university with a major in environmental, chemical, mechanical, civil or electrical engineering, and

— Registration as a Professional Engineer and current license to practice in Louisiana. Proof of registration must be presented within two (2) weeks of filling an application, and

— 10 years of progressively responsible professional experience in the engineering fields listed above which included work in water purification, utilities, pumping operations or waste treatment.

An original entrance examination will be given. A rating of training, experience and license will be weighted 100 percent. Credit will be given only for related experience gained within the last 10 years.

Applications, which must be received by Dec. 29, 1994, can be sent to New Orleans Civil Service, 1300 Perdido St., Room 7W03, City Hall, New Orleans, La. 70112.

More information may be obtained by contacting Tony Moore of the S&WB at 504-585-2023.

The Sewerage & Water Board of New Orleans is an equal opportunity employer and does not discriminate on the basis of race, color, religion, national origin, sex, age, disability or sexual orientation.



Louisiana Engineering Society
Leta G. Bueto
Executive Director



It's Time to Say Farewell

It's with a great deal of sadness and joy that I say farewell. Sadness at leaving an organization in which I've invested so much of my time and made so many friends, and joy at looking forward to retirement.

With over 19 years of service to the Louisiana Engineering Society, I've had the opportunity to observe a

large number of history making events for the Society. To name a few:

- Incorporation of the Louisiana Engineering Foundation in 1978 and the Society relocating to its present headquarters.
- Establishment of the Political Action Committee.
- Automation of the Society records (and, I still ask myself sometime "Are we still sure this is an improvement over changing the ribbon?").
- Participation by both the Consulting Engineers Council of Louisiana, Inc. and the Louisiana Society of Professional Engineers in Civil Service in the *Louisiana Engineer* magazine.
- LES hosting two NSPE National Meetings and two NSPE Regional Meetings.
- Many changes in the registration law, including the addition of one land surveyor member and one engineer member to the Board of Registration, and the addition of three registration disciplines: nuclear, environmental and control systems.
- A qualification-based selection process established for design professionals by the Louisiana Department of Transportation and Development and the East Baton Rouge Parish Public Works Department.
- The introduction and growth of MATHCOUNTS.
- Meaningful dialogue on converting to the metric system.
- Mandatory membership in the National Society of Professional Engineers.
- Almost all of the arguments on voluntary and mandatory continuing professional competency requirements.
- One of our own, T. Dudley Hixson, P.E., serving as President of the National Society of Professional Engineers.
- The first ever joint meeting with the American Society of Civil Engineers in early 1994 and plans in progress to expand the 1995 meeting to include other technical and professional engineering organizations.
- A complete rewrite and adoption of the Articles and Bylaws of the Louisiana Engineering Society.
- Meaningful dialogue between industry and the Board of Registration on the industrial exemption.
- Relocation of the Board of Registration headquarters to Baton Rouge.

During the years I served as Executive Director, it was a privilege to participate in the semi-annual meetings of the National Society of Professional Engineers. NSPE is truly an organization who devotes its daily activities to enhancing the image of engineers and to protect their rights to practice. My involvement with NSPE gave me the opportunity to serve on a number of national committees and as President of the State Societies Executive Council.

It has indeed been a pleasure working with twenty Boards of Direction and twenty very distinguished engineers who have served as President of this organization, beginning with Malcolm L. Hurstell, P.E., in 1975 and ending my career with Edgar P. Benoit, P.E., the current President. The dedication of the twenty-three engineers who serve annual terms on the Board has truly been an inspiration.

I would be remiss if I fail to express my appreciation to my husband Carson for his support and for serving as Mr. Mom to our daughter Debra in my absences from home. Debra and her husband, Doug Harrell, have given me the most wonderful gift of all, a beautiful granddaughter, Emily. Emily is now five and I am looking forward to spending some quality time with her.

And to my dear friend and mentor, R.C. "Doc" Spears, thank you for believing in me. Your support and advice through all of these years have meant more to me than I could ever express in such simple words as "thank you". I shall miss your "mushy, mushy" calls of good morning as they have been so much a part of my life for so long. Your dedication to the Society, to the Foundation, and to the engineering profession is truly remarkable and shall never be forgotten by those of us who have had the pleasure of working with you. And, for those of us who are numbered as friends, we are blessed by your friendship.

Also, my deepest appreciation to Printing, Inc., publishers of this magazine. Your expertise has truly made the Louisiana Engineer magazine one of the best state society publications in NSPE. Your staff of dedicated professionals made my job easier and, for that, I am grateful. You've been a magnificent group of people to work with.

To each member of the Society, a hearty "Thank you!" for allowing me to serve as your Executive Director. I wish for the Society continued growth and success in all of its endeavors. The Society is in the hands of a very capable Board of Direction and staff. Sharon Schexnayder, Secretary-Bookkeeper, has now been with the Society for nine months and will remain on staff. Sharon is doing an outstanding job and I know that each of you will continue to give her your support and assistance as needed. Her dedication and commitment to the Society are very evident.

I am very pleased to announce that Brenda Gajan began her employment as Executive Director on December 15th. Brenda comes to us from the Louisiana Society of Professional Surveyors where she has been serving as Executive Secretary. Welcome aboard Brenda!

As I close I leave this thought with you: "Yesterday's the past, tomorrow's the future, but today is a GIFT. That's why it's called the present." God has given each of us only the 'present'. Let us remember to live each day to the fullest because it is a "gift" never forgetting our families, our friends, and our many blessings! Best Wishes! LE

States Struggle With Industrial Exemptions

by: Molly Galvin
Associate Editor
NSPE Engineering Times

Whether they agree with them or not, most professional engineers have learned to live with industry exemptions. Engineers know that in most states, exemptions for industrial employees have become a part of doing business.

But many engineers—and even licensing boards—may not know how an industrial exemption is defined. In at least two states recently, the wording and semantics of what constitutes an industrial exemption have prompted legislative battles and a great deal of confusion.

The issue of industry exemptions has always managed to spark debate about what they mean and the purposes they serve. And although many states have had industry exemptions as long as they've had licensing laws, some states don't report having such exemptions, even though language in their registration laws can often be interpreted as such.

For example, a 1993 survey of 56 states and territorial licensing and registration boards conducted by the National Council of Examiners for Engineering and Surveying reveals that 20 report having no industrial exemption on their books. But confusion over semantics may account for at least some of that number.

A successful recent bid to enact an industrial exemption in Idaho highlights the importance the issue holds for industry representatives and professional engineers. When a proposal that contained an industrial exemption was considered earlier this year by the state legislature, the Idaho Society of Professional Engineers opposed it right from the start, says ISPE President Steve Walker.

The drive to add the exemption to Idaho's licensing laws started when the state board started amending other parts of the law, he says. "Because the board was making the amendments, they were alerting [exemption proponents] that there wasn't per se an industrial exemption in Idaho." Once industry leaders realized that, they began arguing for its inclusion, he adds, even though there had been no effort to enforce registration for industry employees.

Engineers across the country have become very familiar with those arguments—they're the same issues that have surrounded industrial exemptions for years. Idaho exemption proponents—the Idaho Mining Association, which encompasses many large chemical industries in the area; the Idaho Association of Commerce and Industry; and others—were mainly concerned that the state board's other amendments would make it necessary for engineers practicing any discipline to be registered. The groups cited concerns about added costs and difficulties in recruiting if all industry employees were required to be registered.

In a position paper filed with the board, ISPE summarized many of the problems opponents have always had with industrial exemptions: "ISPE believes that passing [an industry exemption] would have grave and sweeping consequences with regard to public safety," the paper said. "In particular, it would eliminate the system of checks and balances which have evolved and historically served the state very well. Providing a carte blanche exemption to any segment of business should be approached with the utmost caution."

Some of those potential threats are further outlined by ISPE. For example: "Consider the impact of this amendment when applied to privatization of public works. Buildings, bridges, tunnels, and water projects could be undertaken by a joint venture company or other

type of corporation and the project accomplished as one for 'internal or company use only,'" the paper noted. The exemption would also allow companies to dodge local code and code review requirements—building codes, for example, could be bypassed because officials would have little recourse to require construction documents for review, ISPE asserted.

Another problem the society had to contend with: The Department of Environmental Quality (DEQ), which is in charge of regulating Idaho industry, attached its own amendment that would have, in effect, exempted from licensure all public and private individuals preparing and reviewing plans and specifications, except where specified by the Idaho code. "There's no way that DEQ should be supporting the same legislation that exempts it from registration when the people it's supposed to be regulating are asking for the same exemption. It's like asking the fox to guard the chicken coop," Walker says.

The two amendments gave ISPE a lot to contend with in a short time. Although the society was fairly successful in getting its argument heard by state licensing officials, ISPE was acting on the defensive says Walker. "The problem was we found out about it so late that it was a challenge" to oppose the amendments, he notes.

As a result, ISPE successfully defeated the broader amendment proposed by DEQ, but the industry exemption is now part of the state's registration law. And the fight was so intense that none of the parties involved will take it on again any time soon, Walker predicts. "It was a big enough battle that I don't think that ISPE, the legislature, or the state board want to do anything in the next legislature," he says. "If [ISPE] is going to do anything in the future, we're going to do it with a heck of a lot more moxie and spend more time doing it than we had last session."

Same Story?

ISPE's fight against the industry exemption—and the society's reluctance to continue it in the near future—mirrors similar battles in other states over the years. According to *Building For Professional Growth*, a book on NSPE's history written by former Executive Director Paul Robbins, industry exemptions have been a part of licensing laws ever since they were enacted, mainly because no registration legislation would have passed without them.

"When legislatures considered the enactment of [registration] laws, there was considerable opposition from industrial firms and public utilities. Therefore, most laws contained an exemption which provided that laws did not apply to engineers employed in industries and public utilities," writes Robbins. And ever since, efforts to remove industry exemptions in most states have been a hotly contested issue, he adds.

NSPE's own history with industry exemptions reveals that fighting them was an uphill battle. "In 1948 the Society adopted a policy urging industry to 'engage only registered professional engineers for responsible engineering positions,'" writes Robbins. "Several states attempted to remove the industrial exemption from their laws in the years following." But many of those attempts were unsuccessful.

In the 1960s, some politically powerful industry interests urged their member organizations to oppose any attempt to remove industry exemptions. Pressure from industry concerns resulted in NSPE revisiting its policy several times in the '60s and '70s. In 1964, the

NSPE Board voted to "oppose proposals to exempt engineers in industry," and in 1971, the policy was amended again to recommend "phasing out" of existing industry exemptions.

But the controversy continued. When the Industry Advisory Group was reactivated in 1978, members indicated that NSPE's position on industry exemptions would be a major stumbling block. Eventually, "the statement opposing the exemption of engineers in industry was removed," notes Robbins.

"As history reveals, fighting industry exemptions puts barriers between NSPE and industry interests," says Donald Weinert, NSPE executive director. The Society currently encourages and supports the voluntary licensure of industry employees, regardless of their fields of practice, and is making efforts to educate industry about the benefits of registering, he says. To that end, NSPE's Professional Engineers in Industry practice division is participating in an industry visits program to promote NSPE goals and policies on a site-by-site basis. The NSPE Board has also endorsed the NCEES model licensing law, which doesn't include an industry exemption but does provide for employee exemptions if a supervisor or manager is a licensed engineer.

Word Wars

The NCEES model appears to have made headway in eliminating the industry exemption in at least one state. With the support of the West Virginia Society of Professional Engineers, that state's legislature two years ago adopted the model almost verbatim to replace its previous registration requirements—which had included an exemption for industry.

But the new law has some language that may be interpreted by some as an industrial exemption, explains Gene Weekley, legislative chairman for the West Virginia Society of Professional Engineers.

Just before the bill was set to pass, a lobbyist managed to insert an amendment that alludes to an exemption. "It's the same language that's in the old law, and pertains to the industry exemption. But with the way it was tacked on to the end of our bill, it's just extremely confusing what the intent was," Weekley explains.

WVSPE decided not to fight the amendment because it was so ambiguous and came so late in the process that the society didn't want to risk upsetting the overall bill's adoption, says Weekley. "We were going to fight it initially. But the way it was grammatically inserted into the bill, it's meaningless," he adds.

The state seems to back his claim. Assistant Attorney General William Douglas says only three exemptions are recognized under the law: if a license has already been obtained under another profession; if an engineer is licensed in another state; and if an employee or subordinate works under a licensed professional.

"There may be a handful of people out there who think they have an industry exemption, but I don't think they do," says Weekley. He asserts the lobbyist was acting in his own interests when he inserted the language, and no industry force was behind the move. In fact, at the time the bill was enacted, Weekley says he was surprised at the lack of industry resistance.

WVSPE's victory was a significant one, and other states have also managed to modify licensing laws to eliminate industry exemptions, including Louisiana, Montana, and Oklahoma. But the struggle to encourage industries to register employees will continue, says Roger Stricklin, executive director of NCEES. Without industry involvement and cooperation, legislation may be a moot point. "It's not so much that the legislation actually includes an exemption, it's just that in the real world, the boards simply don't pursue it," Stricklin notes. **LE**

[Reprinted with permission, November 1994 *Engineering Times*]

Turn your
excess inventory
into a tax break
and help send needy
kids to college.

Call for your
free guide
to learn how donating your
slow moving inventory
can mean a generous
tax write off
for your company.

Call 708-690-0010
PETER ROSKAM
Executive Director



P.O. Box 3021, Glen Ellyn, IL 60138
Fax (708) 690-0565

"Fenton, you've got 10 seconds to remove that lampshade. And just 10 days to get all these surplus lampshades out of here."



Excess inventory today...student opportunity tomorrow

"LES FORUM"

Remember, the "LES Forum", a feature section of the *Louisiana Engineer*, is available for your comments on matters of interest to the profession. Comments should be brief, courteous, and timely, and will be edited by the Publications Committee for balance and pertinent content.

The *Louisiana Engineer* is published six times annually in February, April, June, August, October and December. Comments to the "Forum" should be mailed to the *Louisiana Engineer*, P.O. Box 2683, Baton Rouge, LA 70821, no later than the 10th of the month preceding the month of the publication.



COMPUTER AIDED DESIGN

SERVICES & SUPPLIERS

PIPE & LEAK LOCATING

- ✓ LEAKS UNDER SLAB FLOORS
- ✓ SEWER LINE MAPPING & PROFILING
- ✓ WATER & GAS SYSTEM LEAK SURVEYS

LEAK TECHNOLOGY
div. PRO-AM, INC.
3814 HWY 43 NORTH
PICAYUNE, MS 39466

FRANK ZIMBELMAN, PE
NEW ORLEANS
583-1857
(800) 673-5726

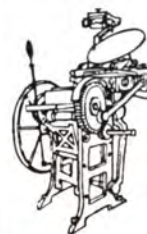


Scott M. Bergeron
President

PROFESSIONAL TECHNICAL
SUPPORT SERVICES, INC.

P.O. Box 3414
Baton Rouge, LA 70821
Corp. (504) 293-0136
FAX (504) 293-0196

Atlanta • Houston • Jacksonville • Pittsburgh



FAX 355-2178

**PRINTING
INCORPORATED**

3019 PLANK ROAD (504) 357-5961
BATON ROUGE, LOUISIANA 70805

The Best People
The Best Equipment
For the Best Product!

We House A Complete
"Independent" Art Department

Ed's ep
PRINTING
COMPANY, INC.

925-0991
9366 Greenwell Springs Rd.
at Monterrey



ATS Sales, Inc.

James E. Bowic, Jr., Ph.D., P.E.
President

Creator of **Water King**
WATER CONDITIONING

103 Charbonnet Road • Duson, LA 70529 USA • (518) 988-2360 • FAX (518) 981-7922



McBride-Ratcliff and Associates, Inc.
Raytheon Environmental Services Company

Air Quality Permitting/Design
Industrial Wastewater Design
Waste Min/Source Reduction
Solid/Hazardous Waste Permitting

Remedial Investigations
Geotechnical Engineering
Construction Quality Assurance
Remedial Engineering

125 James Drive West Suite 100
St. Rose, Louisiana 70087
(504) 469-1350 Fax (504) 461-8327

Raytheon
Engineers & Constructors

Office Space for Engineers
Donlee Building in Metairie, LA

749 Aurora Avenue Cor. Veterans Blvd.
Near Lakeside Shopping Center
800 Sq. ft suits
(504) 488-2271

MECO®

Sea Water Conversion Equipment
Pharmaceutical Distilling Plants
Marine Heat Exchangers and Pumps
Reverse Osmosis Systems

MECHANICAL EQUIPMENT COMPANY, INC.
861 CARONDELET STREET, NEW ORLEANS, LA 70130 U.S.A.

PHONE: (504) 523-7271
TELEFAX: (504) 525-4846

TELEX: 460165

PROFESSIONAL LISTINGS

WALDEMAR S. NELSON AND COMPANY

INCORPORATED
ENGINEERS AND ARCHITECTS

1200 ST. CHARLES AVENUE
NEW ORLEANS, LA 70130



TELEPHONE: (504) 523-5281
FACSIMILE: (504) 523-4587
TELEX: 584351 NELSONG

COMPLETE ENGINEERING AND PROJECT MANAGEMENT SERVICES
45 YEARS OF EXPERIENCE SERVING INDUSTRY

- SITE PLANNING / PERMITTING
- CHEMICAL / PROCESS / PETROLEUM
- CIVIL / STRUCTURAL
- ELECTRICAL / ELECTRONIC
- ENVIRONMENTAL / SANITARY
- INSTRUMENTATION / CONTROLS
- CONSTRUCTION MANAGEMENT
- MONITORING / MODELING
- MECHANICAL
- PIPELINE
- MINING
- HVAC
- ARCHITECTURE
- ASBESTOS



SIMMONS J. BARRY & ASSOCIATES

A UTILITY OPERATORS, INC. COMPANY

CONSULTING ENGINEERS
AND PROFESSIONAL LAND SURVEYORS
FOR INDUSTRIAL, GOVERNMENTAL, AND COMMERCIAL CLIENTS

POST OFFICE BOX 1751 BUS 504-769-3400
BATON ROUGE, LOUISIANA 70821 FAX 504-769-3596



MONTGOMERY WATSON

3501 N. Causeway Blvd.
Suite 300
Metairie, Louisiana
70002

Telephone: 504 835 4252
Fax: 504 835 8059

Serving the World's Environmental Needs



ASSOCIATES • INC
ENVIRONMENTAL & ENGINEERING
CONSULTANTS

CORPORATE OFFICE
17170 PERKINS ROAD
BATON ROUGE, LA 70810
(504) 755-1000
FAX: (504) 751-2010

YOUR FULL SERVICE
ENVIRONMENTAL
CONSULTANT

LAMY J. CHOPIN, JR., P.E.

Engineered Solutions to Regulatory Issues

Baton Rouge • Lake Charles • Shreveport • Beaumont-Port Arthur • Austin



WINK INC. COMPANIES

WINK ENGINEERING
W/E PROFESSIONAL SURVEYS

4949 Bullard Ave. • New Orleans, LA 70128-3147
Office: (504) 246-7924 Fax: (504) 246-8759



Parsons Brinckerhoff Quade & Douglas, Inc.

One Lakeway Center
3900 North Causeway Blvd.
Suite 1460
Metairie, LA 70002
504-830-0070
Fax: 504-830-0071

LOURIE CONSULTANTS

geotechnical and geoenvironmental
consulting services

...quality measured in the client's terms

3924 Haddon Street
Metairie, Louisiana 70002-3011
Tel: (504) 887-5531
Fax: (504) 888-1994

BALAR

CONSULTING ENGINEERS



STEVEN W. BROWN, P.E.

BALAR ASSOCIATES, INC.
401 EDWARDS ST., SUITE 815
SHREVEPORT, LA 71101
(318) 221-8312
FAX (318) 424-8506

- CIVIL
- STRUCTURAL
- ENVIRONMENTAL



Roger D. Melancon, P.E.

GULF INDUSTRIES, INC.

SAFETY ENGINEERING

P.O. BOX 309 • MANDEVILLE, LA 70470-0309
(504) 892-6500 • FAX (504) 892-0707



ERM-Southwest, Inc.

ENVIRONMENTAL
CONSULTING
ENGINEERS &
SCIENTISTS



ATCHLEY & ATCHLEY, INC.

Consulting Civil Engineers • Land Surveyors • Planners

412 La Salle Street
Shreveport, Louisiana 71107
318-222-5821

Ben D. Atchley Sr. P.E., P.L.S.
Ben D. Atchley Jr. P.E., P.L.S.



LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

Geotechnical Engineers

Engineering Consultation
Laboratory and Field Testing
Land and Marine Site Explorations

10555 Airline Highway Baton Rouge, LA 70816-4199
Telephone (504) 293-2460 Fax (504) 293-2463



ALLIANCE, INC.

Architecture • Engineering • Planning
Airport Consulting • Surveying

Petroleum Square, Suite 100 1324 North Hearne Avenue
Shreveport, LA 71107 FAX (318) 221-7635
Phone (318) 221-7501

MEYER, MEYER LACROIX & HIXSON, INC.

Consulting Engineers & Land Surveyors

P.O. Drawer 5444
3666 Government St.
Alexandria, Louisiana 71301
Telephone (318) 448-0888

P.O. Drawer 1245
401 West Mississippi Ave.
Ruston, Louisiana 71270
Telephone (318) 255-7236

James L. Meyer, P.E., R.L.S. R. B. LaCroix, R.L.S.
Arthur E. Meyer, P.E., R.L.S. T. D. Hixson, P.E., R.L.S.

CONSULTING ENGINEERS



pyburn & odom, inc.

RIVER CROSSINGS • WATERFRONT STRUCTURES
HYDROGRAPHY • HIGHWAYS • INDUSTRIAL SITES
ENVIRONMENTAL STUDIES • SINCE 1948

8178 GSRI AVENUE • BATON ROUGE, LA 70820-7405 • (504) 766-6330



professional engineering
consultants corporation

Consulting Engineers

1450 Seaboard Drive
Baton Rouge, La. 70810 (504) 769-2810

TQM Systems®

Making Quality a Reality

12382 Mollylea Drive
Baton Rouge, LA 70815-6616
Phone: 504-273-4972

M.M. "Mickey" Christensen, P.E.
President IQA Assessor # A003773



FORTE AND TABLADA, INC.

CONSULTING ENGINEERS



OFFICE (504) 927-9321 • FAX (504) 927-9326
P.O. BOX 64844 • BATON ROUGE, LA 70896
9107 INTERLINE AVE. • BATON ROUGE, LA 70809

RPM ENGINEERING, INC.

A PROFESSIONAL ENGINEERING CORPORATION



9969 Professional Boulevard
Baton Rouge, LA 70809
(504) 292-9901



BROWN & BUTLER, INC.

Consulting Engineers and Land Surveyors

General Civil Engineering & Land Surveying

8335 KELWOOD AVE.-SUITE D PH. 504/ 924-0235
BATON ROUGE, LA 70806-4804 FAX: 504/ 926-1687

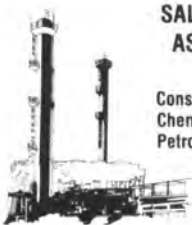


THE MEYER GROUP



Meyer and Associates, Inc.
Engineers • Planners
Vernon F. Meyer and Associates, Inc.
Surveyors
The Meyer Group, Inc.
Project & Construction Management

600 Cities Service Hwy. • P.O. Box 2149 • Sulphur, Louisiana 70664 • (318) 625-8353
5525 Mounes Street, Suite 102 • New Orleans, Louisiana 70123 • (504) 733-3770



SALMON & ASSOCIATES, INC.

Consulting Engineers serving the
Chemical, Petrochemical,
Petroleum and Metallurgical Industry

826 HIGHLANDIA
BATON ROUGE, LA 70810
(504) 752-7250

Office Ph. (504) 868-1050
N.O. Ph. (504) 586-8222
Home Ph. (504) 872-6003
FAX Ph. (504) 868-5843

T. BAKER SMITH & SON, INC.

CIVIL ENGINEERS & SURVEYORS
LAND - OFFSHORE - HYDROGRAPHIC
ENVIRONMENTAL RESEARCH

550 South Van Ave.
P.O. Box 2266
Houma, LA 70361

WM. CLIFFORD SMITH, P.E., L.S.
President



Quest Engineering & Development Corp.

Specializing In:

STRUCTURAL & EQUIPMENT DESIGN,
REDESIGN, FAILURE ANALYSIS, &
COMPUTER FEM SIMULATION

7500 North Belt-Humble (Houston) TX. 77396

Call: SAM BROWN, Ph.D., P.E.

(713) 441-2525



WALK, HAYDEL & ASSOCIATES, INC.

- Project Managers
- Engineers
- Construction Managers

600 Carondelet St. New Orleans, LA 70130
(504) 586-8111

Baton Rouge Mobile Little Rock



LaBauve and Company

CONSULTING ENGINEERS
CIVIL STRUCTURAL

3717 GOVERNMENT ST.
ALEXANDRIA, LA 71302

318-445-8910



CSRS

CHENEVERT • SONGY • RODI • SODERBERG

An Engineering/Architectural Corporation

10725 Perkins Road, Suite 200 • Baton Rouge, LA 70810
Phone (504) 769-0546 • Fax (504) 767-0060

Norman J. Chenevert, AIA Michael B. Songy, P.E., P.L.S.
Ronald J. Rodi, P.E. Curtis D. Soderberg, AIA

COYLE ENGINEERING CO., INC.



CHARLES G. COYLE, P.E.

P.O. BOX 6177
BOSSIER CITY, LOUISIANA 71111-6177

3925 BENTON RD
PHONE (318) 746-8987

DAVID VOLKERT & ASSOCIATES, INC.

ENGINEERS • ARCHITECTS • PLANNERS
3500 N. Causeway Blvd • Suite 1240
Metairie, LA 70002

(504) 837-6234 • FAX (504) 837-6237
Major offices in Metro Washington, D.C.
Mobile, AL • Tampa & Miami, FL

Office (504) 632-5596

Res. (504) 632-5646

J. W. P., INC.

J. Wayne Plaisance, Inc.
Civil Engineers • Land Surveyors

JOHN J. PLAISANCE, II
President

Post Office Drawer 730
Galliano, Louisiana 70354

Alliet, Fenner, Jolly & McClelland, Inc.

Consulting Civil & Structural Engineers

Robert R. Alliet, Robert D. Fenner, Leland H. Carter
Richard R. Alliet, Gary W. Fenner

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

1055 Louisiana Avenue
Shreveport, Louisiana 71101
AC 318 425-7452

MODJESKI AND MASTERS

CONSULTING ENGINEERS

Bridges • Highways • Structures
Mass Transit • Special Foundations
Reports Inspections Design
Inspection of Construction

1055 St. Charles Ave., New Orleans, La. 70130
(504) 524-4344

3645 Williams Boulevard
Suite 206
Kenner, LA 70065-3464
504 443 3437



Engineers, Architects
and Planners

Ford, Bacon & Davis INCORPORATED



- CONSULTING
- ENGINEERING
- PROCUREMENT
- CONSTRUCTION

100 YEARS OF ENGINEERED SOLUTIONS

MONROE
318/323-9000

EDISON
908/287-7800

ATLANTA
404/717-3830

HNTB

ARCHITECTS ENGINEERS PLANNERS

Comprehensive Services in

- Highway, Traffic, Civil & Drainage
- Bridges & Structural
- Environmental, Site Planning
- Aviation

HNTB CORPORATION

8281 Goodwood Blvd., Suite J
Baton Rouge, LA 70806



Metallon, Inc.

Metallurgical Testing Laboratories

2524 Sutherland
Houston, Texas 77023
(713) 923-7761

Mechanical Testing
Specimen Machining

Chemical Analysis
Metallographic Evaluation

DOMINGUE SZABO

& ASSOCIATES, INCORPORATED
PROFESSIONAL ENGINEERS & LAND SURVEYORS

400 East Kaliste Saloom Road
Suite 1100
P.O. Box 52115
Lafayette, LA 70505-2115

(318) 232-5182
LA WATTS (800) 737-5182
FAX (318) 237-7132

Huntingdon

Huntingdon Engineering & Environmental, Inc.
7222 Greenwood Road 71119, P.O. Box 19220
Shreveport, LA 71149-0220

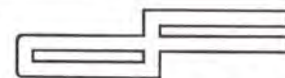
(318) 836-3673
Fax (318) 836-3723

Lloyd G. Hoover, P.E.

Vice President

Manager - Shreveport, Monroe, Baton Rouge
1-800-467-1803

A member of the HTH group of companies



DEMOPULOS & FERGUSON, INC.

CONSULTING ENGINEERS
SINCE 1953

• ENGINEERS • ARCHITECTS • PLANNERS

401 Edwards - Suite 1600 - Shreveport, Louisiana 71101-5530 - (318) 221-7117
2803 Augusta - Suite 880 - Houston, Texas 77057-5638 - (713) 783-7117

BURK-KLEINPETER, INC.

ENGINEERS ARCHITECTS PLANNERS ENVIRONMENTAL SCIENTISTS

- CIVIL
- PLANNING
- ENVIRONMENTAL ASSESSMENT
- STRUCTURAL
- TRANSPORTATION PLANNING
- SOLID WASTE
- MECHANICAL
- ARCHITECTURE
- HAZARDOUS WASTE
- HIGHWAY
- LANDSCAPE ARCHITECTURE
- AIR QUALITY
- DRAINAGE
- PORT / MARINE FACILITIES
- CONSTRUCTION MANAGEMENT

4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119
TEL 504 - 486 - 5901 FAX 504 - 488 - 1714



GERAGHTY & MILLER, INC.

Environmental Services

2900 West Fork Drive, Suite 540
Baton Rouge, Louisiana 70827
(504) 292-1004

Offices Located Nationwide

AREA CODE 318
433-0561

D. W. JESSEN & ASSOCIATES
CIVIL & CONSULTING ENGINEERS

440 KIRBY ST.
D. WALTER JESSEN, JR. LAKE CHARLES, LA

CDM environmental engineers, scientists,
planners, & management consultants
CAMP DRESSER & McKEE INC.

3445 North Causeway Boulevard, Suite 600
Metairie, Louisiana 70002
504 832-7272

236 Third Street, Suite 200
Baton Rouge, Louisiana 70801
504 387-3822

offices nationwide

gregory c. rigamer & associates, inc.
professional consulting services

3230 W. Esplanade, Suite A
Metairie, LA 70002 (504) 836-6166

Michael W. Flores, P.E., P.L.S.
David C. Murla, P.E.
André DeHaan, P.E.
Gary Burt, P.L.S.



CIVIL ENGINEERS • PLANNERS • LAND SURVEYORS • CONSULTANTS



Jim D. Koontz & Associates, Inc.
P. O. Box 1054
Hobbs, New Mexico 88240
Ph 505 392 7676
Fx 505 392 7602

Jim D. Koontz, P.E.
President

JN JONES AND NEUSE, INC.
Environmental and Engineering Services

Preliminary Planning
Engineering Design
Facilities Permitting
Construction Management
Process and Ambient
Monitoring

Regulatory Compliance
Hydrogeologic and Geotechnical
Investigations
Risk Assessments
Remediation and Field Services
Environmental Litigation

11924 COURSEY BLVD., STE. A
BATON ROUGE, LOUISIANA 70816
PHONE: (504) 291-3055
FAX: (504) 291-4801

MOHR & ASSOCIATES, INC.
Consulting Civil Engineers & Land Surveyors

6025 Buncomb Road
Shreveport, Louisiana 71129
Telephone: 318/686-7190



JAMES D. MOHR
PROFESSIONAL ENGINEER
PROFESSIONAL LAND SURVEYOR

ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS

GULF SOUTH ENGINEERS, INC.
ENGINEERING CONSULTANTS



1700 GRAND CAILLOU RD.
HOUMA, LA 70363
(504) 876-6380
FAX 876-0521

1000 LEONIDAS ST
NEW ORLEANS, LA 70178
(504) 866-1821
FAX 866-1781



CONSULTING ENGINEERS
SERVING THE PETRO-
CHEMICAL AND OIL & GAS
INDUSTRIES

OFFICE (504) 835-2577
FAX (504) 837-5924

3330 WEST ESPLANADE AVE. • SUITE 300 • METAIRIE, LOUISIANA 70002

**PETROLEUM ENGINEERS
INTERNATIONAL, INC.**

Drilling Completion & Workover Programs
Office and Field Supervision
Property Management - Total Operations
Turnkey Operations
Reservoir Engineers
Industry Training Schools

P.O. Box 52588
Lafayette, Louisiana 70505 (318) 233-5346



Providing solutions in

- Design
- Analysis
- Pipe Stress
- Vibration Analysis
- Field Services
- Troubleshooting

of static and rotating equipment

8126 One Calais Ave, Baton Rouge, LA 70809
1-800-737-0591 • Fax (504) 766-5765

EUSTIS ENGINEERING
GEOTECHNICAL ENGINEERS

CONSTRUCTION QUALITY CONTROL
AND MATERIALS TESTING
MONITORING WELL INSTALLATION
(504) 834-0157



3011 28TH STREET METAIRIE, LA 70002



LANIER & ASSOCIATES
CONSULTING ENGINEERS, INC.

INDUSTRIAL • MARINE • ENVIRONMENTAL
NEW ORLEANS, LA HOUSTON, TX

WOODWARD-CLYDE CONSULTANTS
engineers • geologists • environmental scientists

Recognized leaders in:

- earth & environmental sciences & engineering
- geotechnical engineering
- waste management
- environmental regulatory issues & applications

2822 O'Neal Lane • Baton Rouge, LA 70816 • (504) 751-1873



A GREAT LAKES CHEMICAL CORPORATION COMPANY

FRANK D. EDWARDS
BRANCH MANAGER/ SR. CHEMICAL ENGINEER

P. O. Box 83277
BATON ROUGE, LA 70884-3277
504/756-2555 • FAX 504/756-2562



LINFIELD, HUNTER & JUNIUS, INC.
CONSULTING ENGINEERS AND ARCHITECTS

3500 North Causeway Blvd. / Suite 200
Metairie, Louisiana 70002
(504) 837-1666 / (504) 835-9933 fax

MAHL AND ASSOCIATES, INC.
CONSULTING ENGINEERS

GEORGE J. MAHL, III, P.E.

800 HICKORY AVENUE, SUITE 100
HARAHAN, LOUISIANA 70123
(504) 737-8904
FAX (504) 738-7770

Poché Associates
LIMITED

CONSULTING ENGINEERS • ENERGY MANAGEMENT CONSULTANTS

224 Rue Dejean, Suite 200 Lafayette, LA 70508 (318) 237-6517



Geotechnical/Materials Testing
Cone Penetrometer Testing
Environmental Consulting
Drilling, Monitor Wells
Marine Geosciences
Marine Surveys
LAKE CHARLES, LOUISIANA
(318) 439-1731

LA Lazenby & Associates, Inc.
CONSULTING ENGINEERS & LAND SURVEYORS

JERRY G. LAZENBY, P.E., P.L.S.
FOY B. GADBERRY, P.E.
PAUL D. FRYER, P.E.

2000 North 7th Street • P. O. Box 726 • West Monroe, LA 71291-0726 • 318/287-2710
FAX 318/287-2718



SOIL TESTING ENGINEERS

GEOTECHNICAL CONSULTANTS

GEOTECHNICAL
SOIL BORINGS
LABORATORY TESTS
ENGINEERING REPORTS

ENVIRONMENTAL
GEOHYDROLOGY
GROUNDWATER MONITORING
SUBSURFACE PROTECTION

QUALITY CONTROL
FILL INSPECTION
MATERIAL TESTING
FIELD LOAD TESTS

316 HIGHLANDIA DR. BATON ROUGE, LA 504-752-4790
4100 LOUISIANA AVE. LAKE CHARLES 318-474-1340
104 E. MARKET RIDGE DR. JACKSON, MS 601-956-0851

BADEAUX & ASSOCIATES
INCORPORATED
CONSULTING ENGINEERS
STRUCTURAL/CIVIL
115 EAST SIXTH STREET (504) 447-2317
P. O. BOX 1056 THIBODAUX, LA 70302

J. Alvin Badeaux, P.E.
President



Civil/Structural Engineers

9229 Bluebonnet Boulevard
Baton Rouge, LA 70810
504-765-7400
FAX 504-765-7244



SPECIAL LICENSE PLATE

Engineers need recognition and identity. There are some 12,000 + Professional Engineers registered to practice in the state of Louisiana; and, even though you may not currently reside in Louisiana, be proud to display this identifying item.

The license plate illustrated above is available for all Professional Engineers registered by the state of Louisiana for \$10.00 postpaid. The plate is made of long-wearing fiberglass (size 6" x 11¾"). We believe it will make an attractive addition to the front of your automobile.

RETURN YOUR ORDER FORM NOW!

LOUISIANA ENGINEER LICENSE PLATE

Mail to: LES

P. O. Box 2683

Baton Rouge, LA 70821

_____ I would like to order _____ plate(s) as specified.

_____ \$10.00 per plate enclosed

NAME _____

ADDRESS _____

CITY _____

STATE _____

ZIP _____