FEBRUARY, 1986
LOUISIANA ENGINEER

Louisiana Engineering Society Honors Five Outstanding Engineers



Robert A. Brossette, Jr., P.E.



Kerry LaBauve, P.E.



Bobby E. Price, P.E.



John E. Ritter, P.E.



William C. Smith, P.E.

LOUISIANA ENGINEERING SOCIETY 1898



WE'RE HELPING STUDENTS DEVELOP SOPHISTICATED SOFTWARE.

We're talking about their minds. And we're helping students develop them with a program called MATHCOUNTS, the first nationwide program to promote math excellence for junior high school students.

This year in Louisiana alone, over 10,000 of them from more than 600 schools are competing in the program at a parish, state and national level. The program, which is administered by the Louisiana Engineering Society, an affiliate of the National Society of Professional Engineers, is a large scale effort to promote math as an exciting, challenging experience. An experience that can lead to career opportunities in high tech industries. But it's more than that. It's also exposing students to the importance of discipline and teamwork and to problem/solution experiences that will help them in engineering or any other career they choose.

That's why Louisiana's Investor-Owned Electric Companies are supporting the MATHCOUNTS program. As energy companies, we know that by developing the minds of our young people, we're building a firm foundation for the future of our state.

Investing in your energy future

LOUISIANA'S INVESTOR-OWNED ELECTRIC COMPANIES

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

FEBRUARY, 1986



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LOUISIANA ENGINEER

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President/Governor Proclaim Engineers Week

State of Louisiana

Edwin W. Edwards
Governor

Proclamation

WHEREAS, National Engineers Week will be celebrated the week of February 16-22, 1986; and

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

WHEREAS, engineers throughout Louisiana will conduct special activities emphasizing the 1986 theme: "Engineers: Turning Ideas Into Reality"; and

WHEREAS, a trained engineer is an innovator and problem solver using his knowledge of science and mathematics in creative ways to find answers to questions posed by society's needs; and

WHEREAS, weather radar, the space shuttle, the artificial kidney and many conveniences used every day as the results of engineering through which America will progress and prosper;

NOW, THEREFORE, I, EDWIN W. EDWARDS, Governor of the State of Louisiana, do hereby proclaim the week of February 16-22, 1986, as

ENGINEERS WEEK

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

In Witness Whereof, I have hereunto set my hand officially and caused to be affixed the Great Seal of the State of Louisiana, at the Capitol, in the City of Baton Rouge, on this the 10th day of January A.D. 1986

Governor of Louisiana

Attest By
The Governor

Secretary of State

THE WHITE HOUSE
WASHINGTON

NATIONAL ENGINEERS WEEK

February 16 - 22, 1986

I take great pleasure in extending my personal greetings to the professional engineers gathered to celebrate the 36th annual National Engineers Week.

Forces at work in our nation today point to the formidable responsibilities and challenges for the engineer of the future. Our domestic economic prosperity, national security, and competitive stance in the world marketplace depend as never before on our ability to utilize our considerable technological skill. Research itself is becoming a more interdisciplinary, problem-focused pursuit, and the translation of scientific discovery into technology application is occurring at a much faster rate than ever before.

Engineers are uniquely qualified to respond to all of these challenges and changes. As the theme of this year's observance suggests, you have a long and proud tradition of molding new ideas into tangible realities. This has improved the quality of life in this country immeasurably. You have the vision to see possibilities where others see only problems, showing the natural inquisitiveness of the true innovator. Perhaps most important, you have talent -- that innate gift which always has been the cutting edge of America's technological preeminence.

On behalf of our fellow citizens, Nancy and I congratulate you on your distinguished service to the nation, commend you on your many accomplishments, and wish you continued success in the years to come. We'll be counting on you. God bless you.

Ronald Reagan



Louisiana Governor Edwin Edwards hands LES President Vincent A. Forte, P.E. a resolution proclaiming Engineers Week in Louisiana.

Engineers: Turning Ideas Into Reality



Vincent A. Forte, P.E.
LES President

The first thing that many of us do when we walk into our homes is turn on a light switch, and light appears. Next, we may turn on the television set to watch the late night news or a Sunday afternoon ballgame. That we do with simply the turn of a knob.

In fact, just about any event that occurs in our lives involves the innovation of the engineer. From the flick of a light switch to the launching of the space shuttle Columbia, the work of an engineer is apparent.

It was the idea of Thomas Edison that made the light bulb possible. And, it is engineers nationwide who are turning their ideas into reality to brighten the world we live in.

Our founding father, George Washington, the first President of the United States, helped form our nation's capital into the thoroughfare it is today.

Washington himself was a military engineer and a land surveyor. In fact, he began the first engineering school at Valley Forge, Pennsylvania which later became the U.S. Military Academy at West Point.

There could be no better week than that of Washington's birthday to celebrate National Engineers Week. It is the one time each year that all engineers come together to celebrate their profession.

Engineers: Turning Ideas Into Reality is the theme this year. During the week of February 16th through February 22nd, engineers from all facets of our profession will be staging tours and exhibitions. Scholarships will be awarded and newspapers will be publishing information on engineers' contributions to society.

Engineers will be appearing on television and radio talk shows during the week. We'll also be conducting math competition (MATHCOUNTS) for seventh and eighth grade students across the country.

The National Society of Professional Engineers first sponsored Engineers Week back in 1951. The events in connection with this observance began with a few scattered proclamations and programs; but has since developed nationwide into a grand event.

While our celebration of this week grows, our traditions continue. Beginning with Harry Truman, Presidents of the United States have each year sent letters of appreciation to engineers through the N.S.P.E. for contributing to this world we live in.

With our ideas, we can make this world prosper and progress. Our future depends on the engineers.

LES Honors Outstanding Engineers



F. HUGH COUGHLIN YOUNG ENGINEER AWARD

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



Robert A. Brossette, Jr., P.E.

Robert A. Brossette, Jr., P.E. a native of New Orleans, Louisiana, attended the University of Southwestern Louisiana between 1969-73 where he received a Bachelor of Science Degree in Electrical Engineering. Later he attended Tulane University where he received a Master of Engineering Degree in 1978. He is a registered Professional Engineer in Louisiana.

Mr. Brossette's professional experience began as an electrical engineer with New Orleans Public Service Inc. (NOPSI) in 1974. In that capacity, Mr. Brossette worked on various projects at NOPSI's Generating Stations. Two years later he transferred to NOPSI's Electric System Planning Division where he was responsible for planning for expansion of the underground electric distribution and secondary network systems in New Orleans. Also, Mr. Brossette has conducted various engineering studies to improve the efficiency and reliability of NOPSI's electric distribution system, acquired the necessary rights-of-way for the expansion of NOPSI's transmission and distribution systems, was involved in the negotiations and preparations of legal documents for modifying NOPSI's facilities to accommodate public and private construction projects, and investigated the emergency overload rating of various distribution components. Presently Mr. Brossette is serving as Engineering Supervisor of Forecasting and Analysis for

Continued on page 8

CHARLES M. KERR PUBLIC RELATIONS AWARD

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



Kerry James LaBauve, P.E.

Kerry James LaBauve, P.E., Principal Engineer with LaBauve and Company, Consulting Engineers, Alexandria, Louisiana, is a native of New Orleans, Louisiana. He holds a Bachelor of Science Degree in Civil Engineering from the University of Southwestern Louisiana and a Master of Science Degree in Civil Engineering from the University of Oklahoma. Mr. LaBauve is a registered Professional Engineer in Louisiana and Texas.

Mr. LaBauve's professional experience includes employment with Avondale Shipyards, Inc., Gulf South Research Institute, Louisiana State University, Beard and LaBauve, and now his own firm, LaBauve and Company, Consulting Engineers.

Mr. LaBauve's activities within the engineering profession include memberships in the American Consulting Engineers Council, American Society of Civil Engineers, National Society of Professional Engineers, the Consulting Engineers Council of Louisiana, Inc., and the Louisiana Engineering Society. He has served the Louisiana Engineering Society and the Consulting Engineers Council at both the chapter and state levels. Kerry received the LES F. Hugh Coughlin Award for Young Engineers in 1980.

Mr. LaBauve's activities in the Louisiana Engineering Society have been primarily directed toward the develop-

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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.



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

Bobby E. Price, Ph.D., P.E., is the Director of Undergraduate Studies for the College of Engineering and a Professor of Civil Engineering at Louisiana Tech University in Ruston, Louisiana. He began his service at Louisiana Tech in 1967. He received his Bachelors Degree from The University of Texas at Arlington, his Masters Degree from Oklahoma State University, and his Ph.D. from The University of Texas at Austin.

Dr. Price has had an eminent career as both an educator and an administrator. His ability to teach the fundamentals of engineering to his students in addition to instilling in them in his own high ethical standards and respect for the engineering profession have repeatedly won him the respect of his peers and his students.

He holds memberships in the Louisiana Engineering Society, the National Society of Professional Engineers, the American Society of Civil Engineers (Fellow), the American Water Works Association, and the American Society for Engineering Education.

In the Louisiana Engineering Society, he has served as both member and chairman of the Professional Engineers in Education Practice Division; as Program Chairman, Secretary-Treasurer, Vice President and President of the Monroe Chapter; and as Secretary-Treasurer and Second Vice President of the Louisiana Engineering Society Board of Direction.

In the American Society of Civil Engineers, Dr. Price has served as Director-

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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.



John E. Ritter, P.E.

John E. Ritter, P.E., retired from his position as a Senior Coordinator Associate in August of 1985 with 50 years of service from Exxon Chemical Company, Baton Rouge. A native of Beaumont, Texas, he received his Bachelor of Science Degree in Electrical Engineering in 1935 from Louisiana State University. He is a registered Professional Engineer in Louisiana. He is married to the former Beatrice Clair Lavigne of Baton Rouge, Louisiana, and they have four sons.

Mr. Ritter's involvement in civic organizations include the Kiwanis Club at the club, district, and state levels, the Louisiana Mental Health Foundation, the Louisiana Kidney Foundation, the Baton Rouge United Way Committee, the Baton Rouge Camp Fire Girls, the Kentucky Colonels, the Baton Rouge Boy Scouts Board of Review, the Girl Scouts Fund Drive Committee, the YMCA Capital Fund Drive Committee, and the Sherwood Forest Citizens Association. He served as a coach for the American Legion "B" and "C" leagues and is a former Cub Scout Den Father.

Mr. Ritter is serving on the Governor's Water Resources Advisory Committee and the Surface Water Subcommittee, the Louisiana Water Resources Information Center Advisory Committee, the Louisiana Engineers Selection Board, and the Baton Rouge Recreation and Parks Commission.

As a member of the Finance Committee of the Baton Rouge Recreation and

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A. B. PATERSON MEDAL FOR AN ENGINEER IN MANAGEMENT

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



William Clifford Smith, P.E.

William Clifford Smith, P.E., is a graduate of Louisiana State University, where he received a Bachelor of Science Degree in Civil Engineering in 1958. Mr. Smith is presently the owner and manager of the consulting firm T. Baker Smith & Son, Inc. He has been directly responsible for the general management, overall supervision, and administration of all company affairs since 1962. Though the firm was founded by his father in 1913 and has been located in Houma, Louisiana since that time, in 1958 when Mr. Smith began his association with the organization it had one full-time employee, and it has since grown to include as many as 125 people to be employed in the engineering and surveying business.

The firm provides engineering and land and hydro-graphic surveying throughout southern Louisiana, Texas, Mississippi, and Alabama. The firm designs and supervises the construction of a multitude of both public and private projects from high level and semi-high level movable bridges to structural buildings, designing drainage levee projects and utility designs of all types.

Mr. Smith is the former Chairman of the Board of the American Bank & Trust Company of Houma and still serves as Chairman of the Executive Committee. He is on the Board of Directors of the American Bancshares, Inc., a one-bank holding company that owns the stock in the American Bank & Trust Company of

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ROBERT A. BROSSETTE, JR. P.E.

Louisiana Power & Light's System Planning.

Mr. Brossette is a member of the Louisiana Engineering Society and is currently serving as the state Scholarship Chairman. He has been very active in the New Orleans Chapter of the Louisiana Engineering Society serving as chairman of the Public Relations Committee, co-chairman of the Program Committee, chairman of the Membership Committee, chairman of the Inter-Society Relations Committee, chairman of the Young Engineers Committee, and consecutive terms as chairman of the Scholarship Committee. Bob assisted in the evaluation of the 1981 and 1985 scholarship applicants for the National Engineering Scholarship Program as sponsored by the National Society of Professional Engineers. He is a member of The Institute of Electrical & Electronics Engineers and has served as secretary/treasurer, vice chairman, and chairman of the Power Engineering Society of IEEE. Mr. Brossette is a member of ETA KAPPA NU Honor Society and was nominated for the LES Young Engineer Award in 1984.

Bob is married to the former Yvonne Templet of Kenner, Louisiana, and they have three children, Bonnie, Kelly and Robin. He is a member of St. Maria Goretti Catholic Church.

Robert A. Brossette's outstanding contributions have demonstrated to a high degree capabilities in engineering indicating great potential for further advancement and leadership as a Professional Engineer, the ideals and criteria for the F. Hugh Coughlin Award.

KERRY JAMES LABAUVE, P.E.

ment of programs which involve the public and engineering profession. As an activity of National Engineers Week, Mr. LaBauve served as a member of the chapter speakers bureau and addressed many area schools to promote awareness of the engineering profession. He made a number of guest appearances on local television news programs to advise the public as to the significance of Engineers Week and why it is celebrated all over the United States.

The Louisiana Engineering Society is involved in many activities which are directed toward the development of better education for the citizens of Louisiana. One of the most outstanding accomplishments during Kerry's career has been his association with MATHCOUNTS, a nationwide program to promote grassroots math excellence. He has served as Louisiana's State Coordinator for two years and is now serving as chairman of the MATHCOUNTS Steering Committee. He worked closely with Fitzgerald Advertising, the agency representing the Louisiana Investor Owned Electric Companies, sponsors of MATHCOUNTS, to produce an effective public relations program. MATHCOUNTS was a new and completely untried program when Mr. LaBauve became State Coordinator. It took many dedicated hours by Kerry and his committee to structure MATHCOUNTS to make it the success it is today. Participation by Louisiana schools has increased nearly 100% since MATHCOUNTS's beginning.

Kerry is currently serving as chairman of the LES Engineering Education ad-hoc Committee which is charged with developing programs to enhance engineering education offerings in Louisiana. The thrust of the program is to generate increased funding to the engineering colleges for faculty salary increases and procurement of facilities and laboratory equipment.

Kerry is married to the former Barbara King of Meadville, Mississippi, and they have one son, Kevin an engineering student at Louisiana State University.

The Charles M. Kerr Public Relations Award recognizes Mr. LaBauve's efforts in promoting the goals of the Louisiana Engineering Society and those of professional engineers in general.

BOBBY E. PRICE, PhD., P.E.

At-Large, Vice President, and President of the Louisiana Section. In the American Water Works Association Southwest Section, he has served as Louisiana Junior Trustee, Louisiana Trustee, Program Committee member, Membership Committee member, Vice Chairman, Chairman Elect, and Chairman. He has also served as a member of the Nominating Committee and the Glenn Kellogg Award Committee. In the American Society for Engineering Education, he has served as Secretary of the Louisiana Section.

In other areas, Dr. Price is involved with the Louisiana Water Resources Research Institute as a member of the State Water Advisory Board. He has served on the Advisory Research Council of the Louisiana State Department of Highways. He has been a delegate for the Universities Council on Water Resources (national organization) since 1970; has served as Vice Chairman; and has been a member of the Committee on Research and Education in Water Resources Engineering since 1970. He has a number of publications and has given several talks to civic, state and national organizations. He also has been involved in a number of research and continuing education projects.

Dr. Price has, since 1976, served as Chairman of the Ruston Scientific and Professional Review Committee. He has been a member since 1979 of the Ruston Advisory Committee on Water and Wastewater Master Plan.

Dr. Price is a registered Professional Engineer in Louisiana and Texas and is a registered Professional Land Surveyor in Louisiana. He is a member of Tau Beta Pi; Chi Epsilon; and Omicron Delta Kappa. He has received numerous professional honors which include Louisiana Tech Faculty Senate Chair Nominee by the College of Engineering; Louisiana Tech Engineering Education Achievement Award (four times); Louisiana Tech American Society of Civil Engineers Student Chapter Outstanding Teacher Award (five times); Tau Beta Pi Excellence in Teaching Award (two times); and Louisiana Tech American Society of Civil Engineers Student Chapter Faculty Advisor Award (two times). Dr. Price is listed in American Men of Science; Dictionary of International Biography; International Scholars Dictionary; Outstanding Educators of America; Personalities of the South; International Who's Who in Community Service; Who's Who in the South and Southwest; Who's Who in Engineering; and Who's Who in Technology Today.

He has been actively involved in leadership positions in Temple Baptist Church in Ruston, in the Ruston Dixie Baseball Association and in the Cedar Creek School of Ruston. He is presently serving as President of the Sunrise Kiwanis Club of Ruston.

Dr. Price is a native of Henderson, Texas. He is married to the former Patsy Ruth Patrick, also of Henderson, Texas. They have two children, a son, Barry; and a daughter, Kami.

Dr. Price's high ethical standards, unselfish service and outstanding achievement record are an inspiration to the engineering profession. His active participation and leadership with his profession through the Louisiana Engineering Society and other technical, civic and religious organizations indeed exemplifies the highest ideals honored by the Leo M. Odom Award for Services to the Profession.

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 other engineering societies in the state on an annual basis for publication in the *Louisiana Engineer*. The purpose of this effort is to improve communications among the entire engineering community in Louisiana and identify contacts for such inter-society activities as Engineers' Week programs, technical seminars, and coordination of legislative efforts. If your engineering organization is not listed and you wish to be included in next year's roster, please make that request through the LES headquarters at P. O. Box 2683, Baton Rouge, LA 70821. **Marvin Firmin, P.E., Chairman, Inter-Society Relations Committee**

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(504) 595-2298

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Baton Rouge, LA 70815
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New Iberia, LA 70560
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9734 Neely Circle
Shreveport, LA 71118

Monroe Subsection
Melvyn McCoy
2007 Oakmont
Monroe, LA 71210
(318) 323-6060

New Orleans Section
Lester P. Palliser, Jr.
Tenneco Oil Co.
201 Bannerwood Drive
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3433 Pontiac Street
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(318) 491-4314

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(504) 733-9571

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New Orleans Section
Dale C. Caston
South Central Bell Telephone Company
365 Canal Street
Room 1080
New Orleans, LA 70140
(504) 528-2500

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Shreveport, LA 71118
(318) 688-1880

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D. H. Holmes, Inc.
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City of Bossier City
P.O. Box 5337
Bossier City, LA 71111
(318) 424-8565

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William S. Jay, P.E.
Waldemar S. Nelson & Co., Inc.
1200 St. Charles Avenue
New Orleans, LA 70130
(504) 523-5281

NATIONAL ASSOCIATION OF CORROSION ENGINEERS

Baton Rouge Chapter
Tom Rachal
P. O. Box 15925
Baton Rouge, LA 70895
(504) 927-1920

New Orleans Chapter
Thomas W. French
Land & Marine Enterprise
P. O. Box 112
Harvey, LA 70059
(504) 362-7322

LOUISIANA SOCIETY OF PROFESSIONAL ENGINEERS IN CIVIL SERVICE

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DOTD
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Livingston, LA 70754
(504) 686-2689

Lacey Glascock, Vice President
DOTD, Traffic & Planning
P. O. Box 44245, Capital Station
Baton Rouge, LA 70804
(504) 342-7581

Jim Fowler, Secretary/Treasurer
DOTD, Road Design Section
P. O. Box 44245, Capital Station
Baton Rouge, LA 70804
(504) 379-1311

SOCIETY OF AMERICAN MILITARY ENGINEERS

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District Engineer
Department of the Army
N. O. District - Corps of Engineers
P. O. Box 60267
New Orleans, LA 70160
(504) 862-2204

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS

Gulf Section
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Ingalls Shipbuilding
Pascagoula, Mississippi 39567
(601) 935-1319

SOCIETY OF PETROLEUM ENGINEERS

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(504) 384-1860

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Calvin R. Lysinger
2560 Apollo Avenue
Harvey, LA 70058
(504) 367-9378

Evangeline Section
Wilton J. Lowe
Chevron USA
P. O. Box 51743
Lafayette, LA 70505
(318) 269-8642

Lou-Ark Section
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Flopetrol-Johnson-Schlumberger
P. O. Box 6117
Bossier City, LA 71111
(318) 747-1212

South Louisiana Section
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Station 1, Box 10067
Houma, LA 70363
(504) 868-0195

SOCIETY OF PLASTICS ENGINEERS

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Greater New Orleans Section
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New Orleans, LA 70161
(504) 561-4401

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Lindsey J. Aucoin & Associates, Inc.
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Eunice, LA 70535
(318) 457-7366

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2728 Wooddale Blvd, Suite D
Baton Rouge, LA 70805
(504) 927-7240

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Metairie, LA 70011
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Lake Charles, LA 70605
(318) 474-1340

Alexandria Chapter
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Alexandria, LA 71301
(318) 237-6571

Shreveport Chapter
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John J. Guth Associates
208 Milam Street
Shreveport, LA 71101
(318) 221-8638

Monroe-West Monroe Chapter
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Harrison & Lazenby, Inc.
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West Monroe, LA 71294
(318) 387-2710

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(504) 835-3111

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P. O. Box 1070
Gray, LA 70359
(504) 876-4412

District 3, Lafayette
Michael J. Breaux
106 Annonce St.
Lafayette, LA 70507
(318) 232-2428

District 4, Shreveport
James L. White
2620 Centenary #242
Shreveport, LA 71104
(318) 221-0080

District 5, Monroe
Jerry L. Rugg
Route 1, Box 268A
Downville, LA 71234
(318) 982-5992

District 6, Baton Rouge
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17836 Coffee Road
Baton Rouge, LA 70817
(504) 342-7719

District 7, Lake Charles
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Lake Charles, LA 70601
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District 8, Alexandria
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Trout, LA 71270
(318) 992-2131

District 9, Covington
John H. Berlin
428 N. Florida Street
Covington, LA 70433
(504) 893-5678

POTPOURRI



Leta Bueto
Executive Director
Louisiana Engineering Society

J. F. NAYLOR, P.E. NAMED DISTINGUISHED ALUMNUS

This year a new program was started at Louisiana Tech University that provides for recognition of an alumnus from each of the six colleges of the university. James F. Naylor, P.E., of Baton Rouge, a member of the Louisiana Engineering Society, was chosen for the first "Distinguished Alumnus Award" for the College of Engineering.

Mr. Naylor is a 1928 graduate with a Bachelor of Science Degree in mechanical engineering. He worked for Trane Company after graduation for a few years, and then moved to Baton Rouge and started a mechanical contracting business.

His business has diversified over the years and now operates as Naylor Industries, Inc. with divisions in Houston, Freeport, Pasadena, Beaumont, New Orleans, and several smaller cities. Mr. Naylor's son William is now running the company, and Mr. Naylor is a Vice President. On any given day you will find Mr. Naylor on the road as an enthusiastic salesman.

Mr. Naylor has been a loyal and active supporter of the College of Engineering for many years. He has coordinated area alumni meetings, hosted alumni planning meetings, served as campaign leader, served on Engineering Foundation Board of Directors (Charter member), recruited students, contributed financial support, and is always available to help with anything being done to benefit the University or the College of Engineering.

PROMOTIONS AT W.S. NELSON & CO.

The Board of Directors of Waldemar S. Nelson and Company, a New Orleans engineering and architectural firm, announces the promotion of Peter M. Smith and Thomas W. Wells to vice presidents and the election of Alan Greenacre and James B. Lane as assistant vice presidents.

Smith is manager of the Environmental Science Department and received his Doctorate Degree from Tulane University in 1976.

Wells has worked with the project management staff since 1977 and received a M.S. Degree from the University of Illinois and a M.B.A. from Loyola University.

Greenacre is manager of the Instrumentation Department and received a B.S. in Electrical Engineering from the University of Birmingham, England in 1963.

Lane has worked with the project management staff since 1976. His M.B.A. and M.E. Degrees were received from Tulane University.

Waldemar S. Nelson and Company has served the local and surrounding areas for over 40 years, providing a wide range of engineering and architectural services.

TWO-DAY CONTRACT DOCUMENTS SEMINAR

The Engineers' Joint Contract Documents Committee (EJCDC) presents the fifth in a series of tutorial programs designed to update engineers, owners, attorneys, contractors and others on the scope of new and recently revised contract documents and forms produced by EJCDC and on issues raised by court decisions affecting engineering practice and contract administration. The seminar will be held February 20-21, 1986, at the Hyatt Palm Beaches in West Palm Beach, Florida.

The program will feature:

- A comprehensive review of the 1984 edition of the Owner-Engineer Agreement with emphasis on major changes in concept and wording since the 1979 edition;
- A review of the 1985 edition of the Engineer-Associate Engineer, Engineer-Architect and Engineer-Consultant Agreements;
- An analysis of the 1983 edition of the Standard General Conditions of the Construction Contract; and
- A detailed review of the new, first-of-its-kind "Focus on Shop Drawings", designed to alert all parties involved in the construction process to the common pitfalls and problems of shop drawing submission, review and approval.

John R. Clark, Esq., a long-time legal adviser to EJCDC, will lead the discussions. Time will be made available for discussion, questions and answers between the audience and a panel of EJCDC members.

As part of the registraton fee, seminar attendees will receive a complete set of current documents. These include such items as a commentary on the revised general conditions, guide to the supplementary conditions, certificate of substantial completion, application for payment, instructions to bidders, notice to proceed and completely new performance and payment bond forms. The cost of this two-day seminar is $245.

For more information, please contact EJCDC, % American Consulting Engineers Council, 1015 15th Street, N.W., Suite 802, Washington, D. C. 20005; (202) 347-7474.

MITCHELL APPOINTED CHIEF ENGINEER, DEMPSEY WHITE RETIRES

DOTD Secretary Robert Graves announced at the October AGC luncheon that Roy E. Mitchell, Jr., former district administrator in Shreveport, has assumed the newly consolidated position of Chief Engineer as a result of the December 2, 1985 retirement of Dempsey White, Chief Engineer, Office of Highways.

The expanded role of the Chief Engineer is an effort to consolidate all state construction engineering under Mitchell. Graves stated that this would help streamline engineering decisions within the hertofore separate engineering offices of highways, public works, aviation and public transportation.

Mitchell gave a short address during the luncheon, offering the continuing cooperation of his office with AGC that contractors enjoyed under White.

Mitchell possesses a Civil Engineering Degree from Louisiana Tech University. He stated that engineering decisions are his longsuit based upon his practical engineering experience as Highway District 04 Administrator and District Engineer. He pledges his availability to the contractor as well as timely decisions.



NÔTRE MÉTIER

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

Me — the Societies — the Board of Registration — NCEE — ABET — the Universities

How do these relate to each other? What do they mean to you?

Me (moi)

Most of us "Injun-Nears" survived through high school, made good grades, loved math, hated English, but made passable grades and had an inquisitive mind.

We went through college and struggled through a rigorous academic program while our friends enjoyed the amenities of life, partying and taking such courses as dancing, basket weaving, etc.

In our senior year, we were urged (or forcefully persuaded) to take an examination called the EIT. We didn't really understand why we were doing this because we had other more important things to do for eight hours on a Saturday during football season.

A few years later, after we learned that being an EIT doesn't carry much weight, we took another examination called the Principles and Practice of Engineering, received a certificate and a brief letter announcing to the world that we could now call ourselves a "PE".

By then, we had joined the "Society," and each year, when we could least afford it, we received two bills, one from the "Society" and one from the "Board." We knew there had to be an error and paid only one. Later, we called to learn that a late renewal fee was due.

Does this scenario fit? Hopefully not, but **too many** of you have too many questions for me to feel comfortable regarding understanding of the relationship of the Societies, the Board, NCEE, ABET, and the Universities.

The following is a **fact** — A registered Professional Engineer argued with me for two weeks insisting that he had **"always"** paid his renewal fees to the Board in a timely manner. He finally wrote a letter attaching copies of seven years of cancelled checks which had been paid to the Louisiana Engineering Society. This gentleman did not understand the difference between the Board of Registration for Professional Engineers and Land Surveyors, and the Louisiana Engineering Society.

Let's define our terms:

The Societies -

In our profession we have technical and professional societies which we **may** and **should** be members of. Some of the technical and professional societies are:

American Association of Cost Engineers, American Institute of Chemical Engineers, American Institute of Industrial Engineers, American Institute of Plant Engineers, American Society of Agricultural Engineers, American Society of Civil Engineers, American Society of Heating, Refrigerating and Air Conditioning Engineers, American Society of Mechanical Engineers, American Society of Plumbing Engineers, American Society of Safety Engineers, Association of Energy Engineers, Institute of Electrical and Electronics Engineers, Illuminating Engineering Society, Institute of Transportation Engineers, National Association of Corrosion Engineers, Society of Naval Architects and Marine Engineers, Society of Petroleum Engineers, Society of Plastics Engineers.

Some of the professional societies are:

Louisiana Engineering Society, Louisiana Society of Professional Engineers in Civil Service, National Society of Professional Engineers, Society of American Military Engineers, Society of Women Engineers, Consulting Engineers Council of Louisiana, Inc., Louisiana Society of Professional Surveyors.

It is **not** a legal requirement that anyone be a member of the above technical or professional societies. As a professional, you are **urged** to join and be a part of your profession but it is **not** a legal requirement.

The Board of Registration for Professional Engineers and Land Surveyors

This is a regulatory Board established by the Legislature for the purpose of **protecting** the **public.** All individuals or legal entities (corporations) offering to practice, or practicing engineering or land surveying in the state of **Louisiana, must** be registered with the Board. There is no choice. I hear arguments like:

(A) But, I'm not offering Professional Engineering services. I'm not stamping plans.

(B) Sure, my calling card says Sales Engineer, but I'm not offering engineering services.

(C) We do the design and get Joe Easymoney, P.E. to stamp our plans; he's got a stamp.

All of these statements admit a misunderstanding of the law and/or guilt of a violation of the law.

With very few exceptions, to call yourself an engineer or to offer engineering services, one **must** be a Professional Engineer registrant of the Board in the **state** in which the act takes place. That is the law.

The National Council of Engineering Examiners (NCEE)

The NCEE, among other things, develops, schedules, and marks all Fundamentals of Engineering (FE) and Professional Engineering (PE) examinations. This is a substantial task, there having been over 42,000 FE examinations and 20,000 PE examinations administered in 1985. NCEE is made up of, and funded by, all registration boards. All Council members, as with all other state registration board members, are automatically members of NCEE. The Council committee list that appears below shows Louisiana Board members currently serving on NCEE committees. The NCEE's role in the examination process for EIT and PE applicants is a key to a continued high competence level of those granted registration as professional engineers, and as an aid in obtaining registration in other states, because of the uniform requirements advocated by NCEE (and used by most states).

All Louisiana Board Members and key staff members are active in NCEE. This year's NCEE committee assignments are:

Ben Harrison, Member, Law Enforcement Committee; **H. L. Henry,** Con-

sultant, Uniform Examinations and Qualifications for Professional Engineers Committee (UEQ); **Paul L. Landry,** Chairman, State Board Secretaries; **James L. Meyer,** Consultant, Uniform Examinations and Qualifications for Professional Engineers Committee (UEQ); **James W. Reeves,** Chairman, International Relations Committee; **Francis C. Roy,** Treasurer, Southern Zone of NCEE; Member, Uniform Examinations and Qualifications for Professional Engineers Committee (UEQ); **Authur R. Theis,** Member, Constitution and Bylaws Committee.

The Louisiana Board has always been, and continues to be, on the forefront of NCEE activities. The Louisiana Board is a founder member of NCEE. The first president of NCEE (1920-1921) was a Louisianian, Col. Marcel Garsaud of New Orleans. Board members who volunteer their time to NCEE activities are to be commended. Some committee work takes a lot of time away from a person's normal business activities.

The Accreditation Board for Engineering and Technology (ABET)

This board was established in 1932 under the name Engineers' Council for Professional Development (ECPD) to "promote and advance engineering education with a view to furthering the public welfare through the development of the better educated and qualified engineer, engineering technologist, engineering technician, and others engaged in engineering-related work."

ABET's principal function today is the evaluation and accreditation of engineering, engineering technology, and engineering-related degree programs in U. S. colleges and universities. ABET also develops accreditation policies and criteria; assists academic institutions in planning their educational programs; initiates and sponsors studies, conferences, and seminars; and participates in general areas of higher education, especially those that impact on the engineering profession.

ABET is the legally recognized accrediting agency for programs at engineering schools. ABET is made up of, and patially funded by some 20 technical and professional societies. A host of volunteer engineers are required to carry out the accreditation function. The magnitude of this task can be appreciated when noting there were 90 engineering schools visited and 327 programs reviewed for accreditation last year. This involved the participation of more than 400 trained, qualified and experienced **volunteer** visitors, all of whom spent a minimum of three days at the accreditation site.

Louisiana Board Members serve as accreditation visitors when called upon. A Louisiana Board Member accompanies an ABET visiting team as an Observer on all visits made to universities in Louisiana.

The Universities

Seven universities in Louisiana offer bachelor of science engineering degrees which are ABET accredited and acceptable to the Board (under Louisiana Administrative Code 19-3:3.3.2) as one of the requirements for Professional Engineering registration.

These are:

Louisiana State University
Baton Rouge, LA
- Agricultural Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering
- Petroleum Engineering

Louisiana Tech University
Ruston, LA
- Agricultural Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering
- Petroleum Engineering

McNeese State University
Lake Charles, LA
- Engineering

University of New Orleans
New Orleans, LA
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering

Southern University and Agricultural and Mechanical College
Baton Rouge, LA
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering

University of Southwestern Louisiana
Lafayette, LA
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering
- Petroleum Engineering

Tulane University
New Orleans, LA
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering

Continued on page 17

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:

1986

March 25	**September 23**
June 3	**November 18**
July 22	

EXAMINATION SCHEDULE

	SPRING Apr. 12, 1986 Apr. 11, 1987	FALL Oct. 25, 1986 Oct. 31, 1987
Fundamentals of Engineering Examination (8 hrs.)	X	X
Fundamentals of Land Surveying Examination (8 hrs.)	X	X
Principles and Practices of Engineering (8 hrs.) Civil (Including Structural & Sanitary), Mechanical, Chemical, & Electrical	X	X
Agricultural, Industrial, Metallurgical, Mining & Petroleum		X
Principles and Practices of Land Surveying (4 hrs.)	X	X
Laws and Procedures of Land Surveying (4 hrs.)	X	

Apply at least *six* to *eight* months prior to an examination. Board approval *must* be given for anyone to be scheduled for an examination.

The applicant and the Board depends upon information provided by third parties in the processing of an application, therefore no assurance can be given that one will be scheduled for a specific examination.



The Spec Sheet

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

CIVIL JUSTICE REFORM ON CENTER STAGE

Civil justice reform and the crisis surrounding professional liability has become the number one priority item of most of the professional trade associations throughout Louisiana as well as the nation. A coalition has been established to address the problems in this state. The Professional Liability Coalition is composed of representatives of Consulting Engineers Council of La., Louisiana Engineering Society, Louisiana Architects Association, Louisiana Society of CPAs, Louisiana Dental Association, and the Louisiana State Medical Society. The group has met several times and has addressed various specifics including a sliding scale for attorneys' contingent fees, strict liability, non-meritorious lawsuits, judicial interest, and other related items. The coalition will work very closely with the Louisiana Association of Business & Industry whose interests in these areas are almost identical.

It may be of interest to explain what some of the other states are doing in these areas. The following is a summary of recent activity involving civil justice coalitions in several states. This report was prepared by the National Association of Independent Insurers.

California

NAII has been discussing California tort reform with Archie Robinson of the California Defense Counsel (CDC). Mr. Robinson believes that the CDC can bolster the insurance industry's efforts at tort reform. The CDC believes that the legislatures, and not initiatives, should be the arena for any reform campaign. The Association of Casualty Insurance Companies and the Association of California Tort Reform are engaged in feasibility studies of initiatives on contingency fees, punitive damages, and joint and several liability.

Colorado

A Coalition for Tort Reform has been created in Colorado, which represents many interest groups. A five-member Executive Council of the coalition consists of representatives from the Colorado Association of Commerce and Industry, representing Colorado business; the Colorado Municipal League, representing Colorado governmental entities; Colorado Ski Country USA, representing Colorado consumers; the Colorado Medical Society, representing health care interests; and William G. Imig, NAII Counsel representing the property and casualty insurance industry. John Kezer is acting as an advisor to the Executive Council.

Among other things, bill drafts have been developed on the following subjects:

1. Limitation on damages for non-economic loss or injury.
2. Limitation or prohibition of pre-judgment interest.
3. Limitations on attorney's fees in civil actions.
4. Limitation or elimination of punitive or exemplary damages.
5. Limit tort actions to a one year statute of limitation in lieu of the existing six-year statute.
6. In bad faith actions, provide that burden of proof shall be beyond a reasonable doubt.
7. Abolish joint liability and provide for several liability.

William G. Imig, NAII Counsel, believes that it looks extremely good for some far-reaching reform in the 1986 session of the Colorado legislature.

Florida

Project Civil Reform is being incorporated, and early participants supposedly include the League of Cities, Chamber of Commerce, railroad companies, Florida Power and Light and other associated industries. There is also an ongoing problem to develop a videotape which would be used as an audio-visual aid to accompany speeches by participants throughout the state.

Indiana

NAII President Lowell Beck was the keynote speaker before the Insurance Institute of Indiana's Annual Meeting on September 4, 1985. He outlined civil justice issues and reform efforts.

It is reported that 70 corporations and associations are willing to participate in and fund Indiana Project Justice. Planning is taking place for a large meeting in December. Some legislation is possible in 1986 but probably not much activity because of the short election year session.

Iowa

The Iowa Association of Business and Industry (formerly the Iowa Manufacturers Association) sponsored a November 21 meeting on civil justice reform. This association is one of the moving forces behind such reform in Iowa.

The Iowa Department of Transportation (DOT) is drafting legislation to be introduced at the next session which would amend the State Tort Claims Act by placing a cap on liability arising from vehicular type accidents.

A number of groups, including the Iowa Insurance Institute and the Iowa Association of Business and Industry, may propose legislation limiting or eliminating punitive damages.

Kansas

Kansas Project Justice is still in the implementation stages. Participants include national insurance trade associations, utilities, the Kansas Medical Society and Hospital Association, the Kansas Railroad Association, and the Kansas Retail Association. The major issues for 1985 and 1986 will be punitive damages, medical malpractice, prejudgment interest and contingent fee limitations.

Michigan

Michigan is experiencing a crisis in civil litigation, with an unprecedented number of cases jamming state courts, according to a June 28 Senate-passed resolution creating a Sentate Select Committee on Civil Justice Reform.

The resolution (SR 204), sponsored by Senate Majority Leader John Engler (R-Mt. Pleasant), says the explosion in the number of cases before state courts, many of which result in expensive damage awards, precludes any attempt at fair, swift, and efficient administration of justice. Additionally, this situation is detrimental to the state's business climate and has led to the unavailability of insurance or skyrocketing premiums in numerous instances, and the loss of job opportunities, the resolution stated.

New York

A Product Liability Reform Coalition, Medical Liability Reform Coalition and a Coalition for Municipal Tort Liability and Insurance Reform have been formed in New York. A major package of medical malpractice tort reform bills is pending in the legislature, including contingent fee limits, structured settlement, screening panels and statute of limitations. The Coalition for Municipal Tort Liability and Insurance Reform has a ten-point program which includes, among other things, repeal of the doctrines of joint and several liability as it applies to municipalities, capping personal liability award claims against municipalities at $150,000 per claim and $450,000 per occurrence, and reducing attorney fees for cases taken on contingency to 30 percent of the first $250,000, sliding to 10 percent for any amount exceeding $1.25 million.

Ohio

The Insurance Federation of Ohio (IFO) is discussing punitive damages reform in the light of the recent case of *Hutchinson v. J.C. Penney*, which required the payment of punitive damages under UM coverages. The court decision allows specific exclusionary language in policies, but some question this approach as a long-term solution to the problem. There is some sentiment for legislation that would limit UM to compensatory. Still others talk of broad anti-punitive damages legislation and a coalition of business interests.

At an August 6 meeting of the IFO Legal/Judicial Subcommittee it was decided to proceed in 1986 with legislation to eliminate punitive damages entirely. There will be companion legislation ready as a back-up providing for a cap, prohibition on contingent fees, "beyond a reasonable doubt" standard, payment to general fund, etc. IFO is to begin contacts with Ohio business and municipal groups in order to encourage the formation of a punitive damages reform coalition. The Ohio Association of Civil Trial Attorneys (OACTA - defense lawyers) is seeking the support of business groups for a comprehensive tort reform effort.

Pennsylvania

Truth and Fairness in Litigation Committee. The Truth and Fairness in Litigation Committee has been in existence for two years. Participants include national trade associations, the Pennsylvania Defense Institute, the Pennsylvania Chamber of Commerce, and other business groups. The committee has combined its efforts with medical malpractice and product liability reform.

Texas

Texas Business Coalition - The coalition has been formed within the last year. Participants include the Texas Medical Association, the Texas Consultant Engineers Council, the Texas Defense Association, state and national insurance associations, insurance agents groups.

Hawaii Moves To Reduce Frivolous Suits

Last year *The Interpro* reported on Hawaii's Design Professional's Conciliation Panel Law. The law required that prior to a claim being filed against an engineer, a plaintiff must file the claim with Hawaii's Board of Registration for Engineers. The Board then sets up a hearing with a conciliation panel to investigate if the claim can be resolved without a lengthy and expensive lawsuit.

The law has now been amended to require the attorney for the claimant to consult with a design professional or university professor, licensed in the same discipline whether there is reasonable and meritorious cause for filing the action.

Other new provisions in the law give the right to either party to claim the subject matter is unsuitable for review by the panel and have it removed to a circuit court. The changes also include landscape architects in the law, and provide a twelve-month statute of limitations for panel review within which the panel must dispose of the action.

The panel consists of three people. The chairman of the panel is appointed by the Chief Justice of the Supreme Court of Hawaii and this person must be someone familiar with the claims settlement process. The chairman need not be an attorney. The chairman then appoints the other two members of the panel. One of the members of the panel is selected from a list of 35 attorneys submitted annually by the Supreme Court and the other member of the panel is a design professional selected from a list of 35 attorneys submitted annually by the Supreme Court and the other member of the panel is a design professional selected from a list of 35 architects, engineers and surveyors submitted annually by the Board of Registration. The chairman presides at the meeting and all panel members are paid $300 per claim when the decision of the panel is made. The $900 cost is borne equally by the plaintiff and defendant.

Bernard Engels, Senior Vice President and Director of the Design Professional Insurance Company says, "The Hawaii Design Professional Conciliation Panel Law is not an answer to all professional liability problems, but it is certainly a step in the right direction.

"The mere word 'conciliation' indicates a desire to iron out differences. Sometimes this works and sometimes it does not, but we believe that this law gives everyone an avenue for frank and open discussion that can lead to a settlement of a dispute. The amendments make it a stronger and better law."

Other member organizations have inquired into the workings of the Hawaii law, which indicates increased concern with the professional liability problem.

The Interpro is the newsletter of the Interprofessional Division of the American Consulting Engineers Council. Article is from the October 18, 1985 issue. Information was provided by Mr. George Nishimura, P.E., a member of CEC/Hawaii.

JOHN E. RITTER, P.E.
Continued from page 7

Parks Commission, Mr. Ritter, and other members of the committee, works with a budget of $8 million to maintain and operate 3,500 acres of ground containing 124 parks with three 18-hole and two 9-hole golf courses, 125 tennis courts, 130 softball and baseball diamonds, 2 major football stadia, one velodrome, one horse activity center, a zoo, and an arboretum.

Mr. Ritter was the project manager in 1951 for the first lighted baseball field constructed in the Baton Rouge area for youths under 15 years of age. He designed the facility, procured the necessary equipment and arranged for volunteer labor for the construction by the local electrician's union working on the weekends. As secretary-treasurer of the committee which raised $7,000 in funds to cover the cost of the electrical supplies, he was successful in procuring the electrical supplies at wholesale cost.

The lighted baseball diamond filled a long existing need for youth baseball teams to have adult supervision which would otherwise not be available during normal working hours. Also it provided the parents the opportunity to attend the games in which their children played on a regular basis.

Mr. Ritter is a member of Saint Thomas More Catholic Church, a former member of the Newman Club at Louisiana State University, a member of the Knights of Columbus, a member of the Fund Drive Committee for Catholic High School, a former group leader for weekly Confraternity of Christian Doctrine, a past member of the Bulldog and Buccaneer Backers, a member of the LSU Alumni Federation and Tigers Unlimited, a member of the organizing committee of the Scotlandville Magnet High School (a school preparing students to enter engineering colleges), and a member of the Louisiana Association of Business and Industry Education Council. Successes during his association with LABI, included passage of acts to make the state superintendent an appointive position and to require future school administrators to be hired under performance contracts, allowing them to retain tenure gained as class room teachers but not hold tenure as administrators. Unfortunately, the proposed career ladder system for teachers failed.

Mr. Ritter's service to his community and profession have truly qualified him for the Andrew M. Lockett award. His involvement is an inspiration to the engineering profession and the Louisiana Engineering Society is proud to honor this distinguished engineer.

WILLIAM C. SMITH, P.E.

Houma. From 1972-75, he served on the Louisiana State Board of Commerce and Industry in various committee positions and in 1983 was reappointed to the Board. He is currently serving on the Audit Committee, the Executive Committee, and the Board of Directors of the Louisiana Power & Light Company, and on the Board of Directors of Middle South Utilities, Inc.

William is married to the former Jo-Anne Toups, and they have seven children.

His other civic activities include membership in the Terrebonne Historical and Cultural Society, the Houma-Terrebonne Carnival Club, and the Terrebonne Association for Retarded Citizens.

Mr. Smith is a member of the Louisiana Engineering Society, the National Society of Professional Engineers, the American Society of Civil Engineers, the Consulting Engineers Council of Louisiana, Inc., the American Consulting Engineers Council, and the American Congress on Surveying and mapping. He is a registered Professional Engineer and Land Surveyor in Louisiana and a registered Professional Engineer in Mississippi.

Mr. Smith's outstanding engineering management accomplishments and his active participation in his profession make him a distinguished recipient of the A. B. Paterson Medal for an Engineer in Management.

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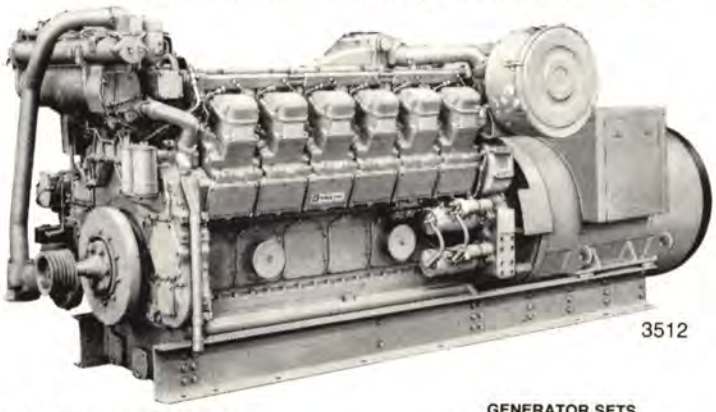

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NOTRE METIER

Continued from page 13

In addition, Louisiana Tech University offers a degree in Electrical Engineering Technology which is recognized by ABET and acceptable to the Board under Louisiana Administrative Code 19-3:3.3.3.1 as a requirement for Professional Engineering registration.

Summary

The Engineer, the Societies, the Board, the NCEE, the ABET, and the Universities. (we hope you agree), none can stand alone.

Each is very closely related to and dependent upon the others. A Board Member is in a very unique position to observe, participate, and contribute to all of these. Every registrant of the Louisiana Board **can** do the same thing — observe, participate, and contribute to most of these entities. Why don't you, instead of letting Joe do it?

DISCIPLINARY ACTION

On April 22, 1985, the Board convened a hearing regarding charges of gross negligence and misconduct in engineering against Mr. James Joffrion, Professional Engineer Number 06570. Said charges were filed formally by a non-registrant of the Board, the Consulting Engineers Council of Louisiana, and by the Board, each alleging that Mr. Joffrion had placed his seal on design plans missing important structural details essential to the integrity of three (3) private school buildings and on calculations that were incomplete in that they did not address fully and completely the detailed design of critical parts and portions of the buildings' structural systems.

After reviewing the evidence and hearing witnesses, the Board found that:

(1) serious deficiencies existed in the design and calculations regarding the buildings in question.

(2) Mr. Joffrion sealed drawings and calculations that he knew to be incomplete and not prepared under his complete control and supervision for use in submission to the State Fire Marshall's Office.

(3) the sealing of said documents also allowed the contractor to submit the incomplete documents to the City-Parish Department of Public Works for a building permit.

(4) Mr. Joffrion was not responsive to complaints that the buildings had serious design deficiencies until months after the buildings were occupied.

On September 24, 1985, a rehearing was held at the request of Mr. Joffrion. Following this rehearing, the Board voted and subsequently adjudged and decreed that Mr. Joffrion was guilty of gross negligence and misconduct in violation of Louisiana Revised Statute 37:698 A (2) and Board Rule 12.1.2, in connection with the structural design, preparation of drawings, and calculations for the three (3) classroom buildings.

The Board ordered that:

(a) Mr. Joffrion's registration as a Professional Engineer be suspended for one year effective from June 4, 1985.

(b) the charges and findings of this decision be published in the *Louisiana Engineer*, the official publication of the Board.

(c) the registrant surrender his registration license and engineering seal to the Board during the period of his suspension.

DISCIPLINARY ACTION

A hearing was held on September 24, 1985 in New Orleans, Louisiana, concerning charges filed by the Board against Mr. Edwin A. Bell. Mr. Bell was

Continued on page 19

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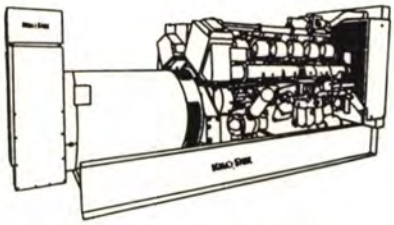

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NOTRE METIER

Continued from page 17

notified of the charges and the hearing date, but did not attend the hearing as he was incarcerated in Texas. Mr. Bell was also not represented by counsel. Mr. Bell was then registered with the Board as a Professional Engineer, Number 08543.

Mr. Bell pled guilty in the United States District Court for the Eastern District of Louisiana to two (2) counts of violating Title 18 of the United States Code, Sections 2, 286, and 287, in that he conspired to and submitted false, fraudulent, and fictitious claims to the United States of America in the amount of approximately one hundred twelve thousand dollars ($112,000). Mr Bell received a three-year prison sentence on one of the counts and a five-year suspended sentence on the other count and he was also ordered to make restitution to the United States in the sum of one hundred twelve thousand dollars ($112,000) within ninety (90) days of being released from prison.

By a majority vote at its regular meeting of September 24, 1985, the Board of Registration for Professional Engineers and Land Surveyors ordered that:

(a) Mr. Edwin A. Bell's registration as a Professional Engineer, Number 08543 be and the same is herby revoked.

(b) The findings and results of said hearing including reference to Mr. Bell by name be published in the *Louisiana Engineer* magazine, the official publication of the Board.

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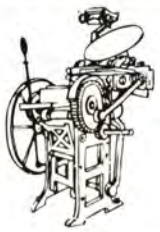

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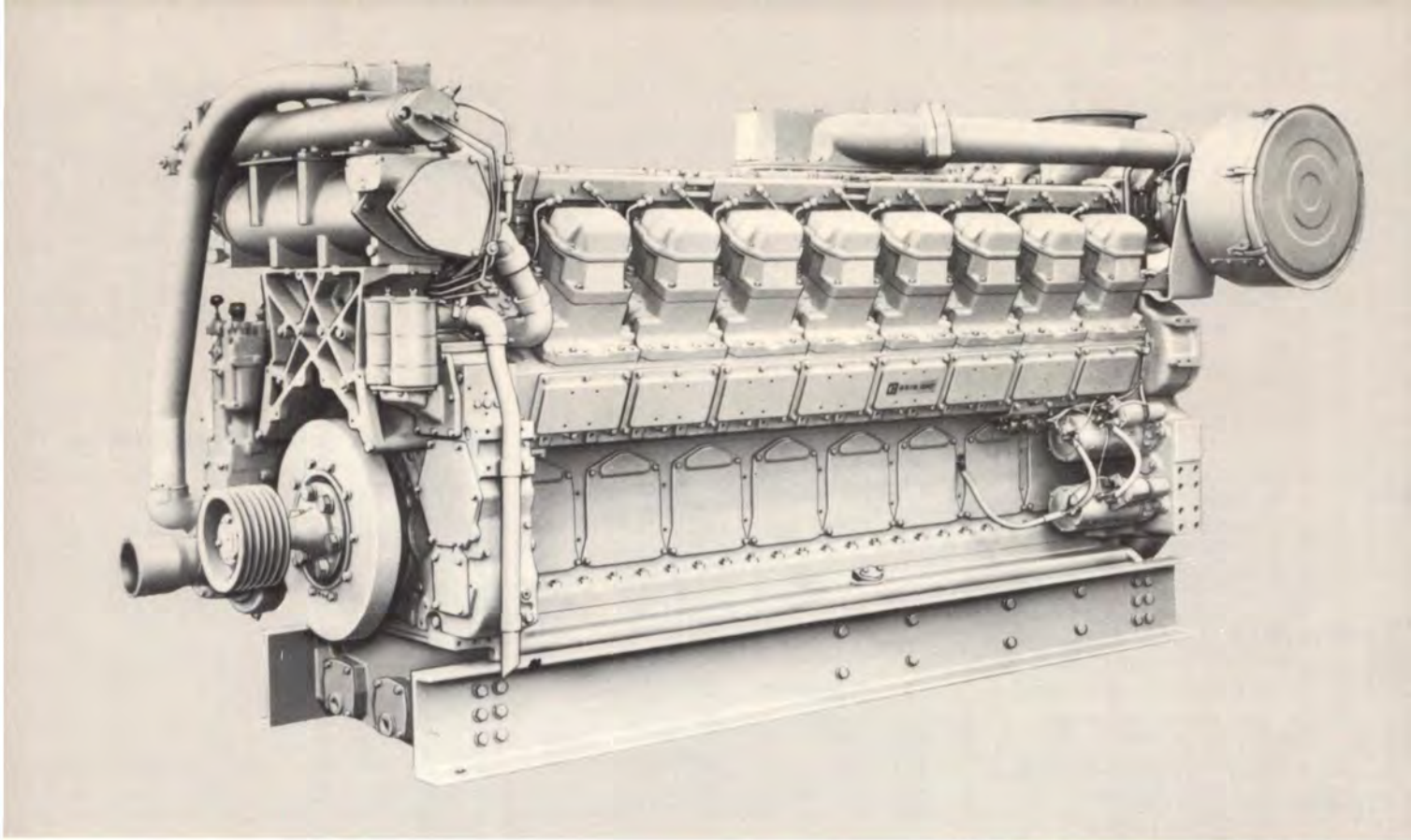

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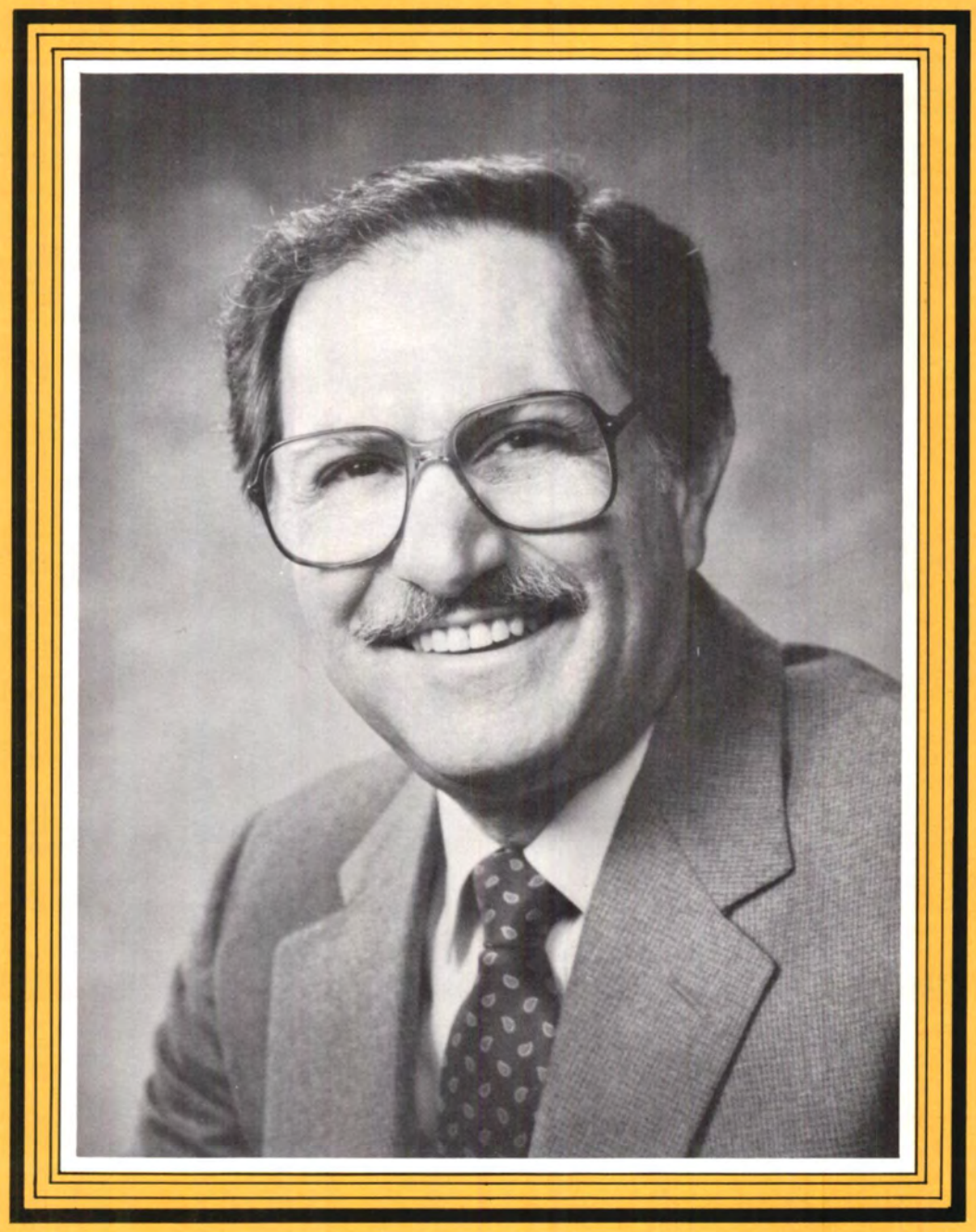

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ABOUT THE COVER

Pictured is Verdi Adam, P.E./P.L.S., Chairman of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors.

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Weathering the Storm



Vincent A. Forte, P.E.
LES President

Unemployment has hit its highest level since the Great Depression. According to figures from the Department of Labor, almost 260,000 people in Louisiana couldn't find a job in February. And, more are expected to be thrown out of the work place as world oil prices—which are Louisiana's mainstay—continue to fall.

Those falling oil prices have caused refining plants across the state to reduce forces. Some companies are even threatening to shut their doors completely, not only in Louisiana but worldwide.

In the construction area, there are very few jobs on the drawing boards. The available commercial building space has literally formed a glut.

Industry, too, has had to tighten its belt. Chemical and refinery plant production cutbacks have led to severe layoffs and early retirement for many.

There have been major reductions in the newly developed hi-tech industries in the Shreveport area. In the heart of Acadiana, where the oil industry once pumped instant millionaires, the wells have nearly gone dry.

Moving towards the eastern part of the state, the pulp wood and lumber industry has also been hit severely by the economic recession. Business there has almost ceased completely.

In some areas though, with the advent of co-generation, industrial projects have increased. But, those projects are few.

For state government, the plummeting oil market has nearly ruined us. As lawmakers convene for this legislative session, they'll be facing a deficit of nearly $1 billion.

But, while we must face the inevitable, as a profession we, too, must plan to survive and weather this economic storm.

For many, this may mean looking at business ventures more conservatively than ever. At this time, taking a step backward may mean a step forward in the future.

We must also take the opportunity to look at all disciplines of our profession. The ability to adapt to changing situations and market places may afford us an opportunity in one area that may not be as scarred by this recession as another.

There are simply no quick fixes to the state's economic woes. We all realize that. But, we can keep a positive outlook on the future.

Some forecasters do predict that once the economy bottoms out, the upturn will bring about better times. But for now, we must simply grin and bear it.

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The key to this safe-seal is in the tapping assembly gland, with its o-ring rubber gasket (shown at right and photo **1**), which is positioned against the steel cylinder (in photo **2**), and compressed (in photo **3**) for a watertight, safe seal.

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The tapping machine retains the pipe wall core. In this case a 30" tap on a 42" concrete pressure pipe.

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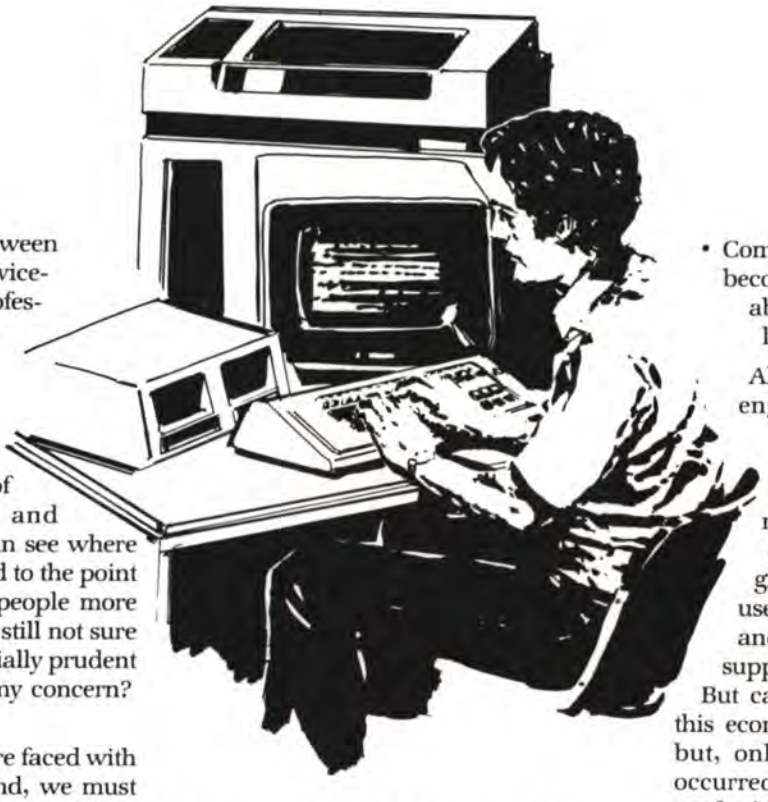
The Economics of CADD for Engineering Firms

by

John H. Stinson, P.E.



A recent conversation between the president and a senior vice-president of a mid-sized professional engineering firm went like this:

President

Jim, our young engineers keep bringing up to me all of the benefits of computer-aided design and drafting systems. Now, I can see where these systems have advanced to the point where they can make our people more productive but, frankly, I'm still not sure a CADD system is the financially prudent thing to do. Do you share my concern?

Sr. V-P

Yes, I do. As I see it, we are faced with a dilemma: On the one hand, we must continue to find ways to stay competitive by improving the level of service to our clients or reducing costs, and CADD will certainly help us do that. On the other hand, we perform professional services based on the idea of billing clients for the time it takes our people to perform their assignments. So, if we invest in a CADD system, it will result in improved designs performed in half the time, but our total income will actually be less, even if hourly rates are increased. Something is going to have to change if we implement CADD, but I don't know what.

President

Exactly, If we don't implement CADD we will fall further behind our competitors. But, if we do implement a system, and we continue to base our fees according to the time we spend on a project, then the total revenue we earn for our services will be less than it is now.

Sr. V-P

Maybe we should evaluate CADD in terms of the additional benefits and services it will allow us to pass on to clients, then restructure the way we charge for these improved services.

* * *

Conversations similar to this one are being held daily in engineering firms across the country. Engineers in private practice realize that the economics of their profession are changing due to the present and potential impact of CADD. Are these changes for the better? Will the client be the only beneficiary of more efficient, less costly designs? Are other professions faced with this same dilemma? These are some of the questions bothering a lot of engineers.

Judging from the large dollar volume in total sales of computer graphics equipment and software over the last several years, it appears that CADD and related technologies are quickly finding and expanding their roles throughout the economy. Just as the slide rule gave way to the faster, more precise and more powerful hand-held calculator, traditional drafting and filing will, for the most part, give way to computer-based drafting and databases. The reasons for this are:

- Computer drafted plans, stored in databases, are less costly to produce and revise
- Plans drafted using CADD are more precise
- Engineers using CADD can consistently develop more efficient, less costly designs in a shorter amount of time.
- Computer equipment continues to become more powerful, more available, more understandable and less expensive.

All of this sounds exciting for the engineering professional, but it does present a problem for the private practice firm. Many large industrial companies are now using CADD and are beginning to expect the private engineer firm, whose services they use, to become familiar with CADD and use it to produce plans or supply database information.

But can firms in private practice do this economically? The answer is, yes; but, only after several changes have occurred in the relationship between professional engineering firms and their clients. Three ideas that might help in dealing with these technological and economic changes are:

- Structure contracts based on the value of the product or service, not on the number of hours worked to produce the end result
- Develop databases in areas where the firm has a particular expertise, then market this information to clients as either an additional service for which they would expect to pay, or as added value to existing services
- Offer greater flexibility and a broader range of services to clients based on the ability of CADD to quickly access, update and plot plans, maps and drawings.

These ideas are based on the realization that CADD erodes one of the traditional means of charging for professional services, that is, time spent doing the job. There are many other ideas that can and will be considered as the full effects of CADD technology begin to be felt.

Contracts Based On Value

The past several decades have seen computer-based technology adapted in

one form or another to virtually all of the recognized professions. Accountants now have stacks of computer printouts, volumes of on-line databases and large amounts of software with which to do their work. Physicians have all sorts of digital and analog computers with which to diagnose and treat patients. And, most attorneys now use word processors and on-line case retrieval systems. Although computer technology has changed these professions in some way, the economics of the professional service firm for each is still basically the same, that is: professional and staff time multiplied by a pre-established rate plus expenses.

Private engineering firms also use the computer to make their engineers, surveyors and technicians more productive, thereby making their firm more competitive. CADD, however, greatly accelerates these productivity gains by significantly reducing the need for large man-hour budgets. Consequently, engineering firms that make project estimates, but bill monthly for work completed based on time and expenses, pass on to the client most of the savings derived from CADD. Even if charges for computer time are added to the monthly statement, the real financial benefits of implementing CADD do not accrue to the engineering firm under a time and expenses billing structure.

If on the other hand, clients expect in advance to pay a negotiated amount based on the value of the product received (plans, maps, reports, etc.), then any savings from reduced man-hours due to CADD would be distributed more evenly between the client and the professional services firm. In this context, then, firms having the best databases of maps, drawings, plans, designs, etc. would actually enjoy the best of both worlds: having lower costs, but negotiating a higher price from the client because they can produce the plans faster, with more detailed accompanying information.

For example, when Firm X implements a CADD system, it can rightfully expect that over time it will build a comprehensive database from on-going projects. As this database grows, the firm finds that the man-hours to perform a certain type of project falls from 1000 hours to 500 hours because existing CADD files can be modified easily, then re-plotted. The client now gets his plans sooner, probably with greater accuracy and with more information attached. Yet, in order for the engineering firm to maintain the same level of total income, the labor rates must be increased or a computer charge must be apportioned. This system places a strain on firms to justify loading factors and develop computer billing formulas that no one understands, especially the client. More importantly, it does not offer the firm a *real* incentive to continue to automate and become more efficient.

Comprehensive Databases

CADD databases will surely become a key element in determining the competitiveness of engineering firms within the next 5-10 years. Firms that develop engineering databases using CADD will have an information advantage that can be turned into a financial advantage. This will be a particularly important factor for those firms that have a large surveying and mapping practice, since geographic data is difficult and expensive to collect and maintain. Up-to-date geo-based information that can be quickly retrieved from a CADD database is already valuable to utility companies, real estate developers, government agencies, petroleum companies, etc. Engineering and surveying companies that store this data in both graphical and non-graphical form, are actually investing in an assest that will earn them income in the future.

As information from these databases is sold, it will be done on the basis of value and the cost to maintain the information, and not on the basis of cost to transfer the data from electronic media to paper or magnetic tape. Clients should expect to pay for both the expertise that a professional services firm has in a certain area, as well as the quantity and quality of information the firm can supply him. Those firms having the most knowledge and the best databases in a particular field will be able to command the best prices for their services and for the information they maintain.

Greater Flexibility and Broader Range of Services

In addition to offering existing and potential clients better, more in-depth database information, CADD should also give engineering firms a chance to offer clients additional services that previously were not available. These new services might include the ability to pre-arrange a call from a construction site to discuss a plan change; and, when the call comes in, the plans will have already been retrieved from the database and displayed interactively on the display screen. As the call progresses, authorized changes can be made interactively, then plotted and sent immediately to the construction site. While this may not be a service that can be offered by all firms, it might be attractive to certain clients as an additional service for which they would pay a fee.

CADD also offers engineers other capabilities that previously were not available. Some might appear to be luxuries, but as computer graphics gains wider acceptance, they will become standard. These additional capabilities include:

- Plot master plans and technical drawings in color. While this might seem frivolous it is presently being done by one of the largest engineering firms in Texas for clients who request it. Since layering techniques are used to distinguish between mechanical, structural and electrical systems, the client can more readily understand complex designs
- Plot 3-D drawings with hidden lines removed. This is another convenience that in the age of CADD will become commonplace
- Provide clients who already have in-house CADD capability the option of receiving plans on magnetic tape. This will help the client because it utilizes equipment that he has invested in, and it helps the engineering firm because small corrections or mistakes in the plans can be corrected interactively by the in-house staff without additional expense to the engineering firm.

One thing to be aware of, however, is the expectation that with CADD the same level of staff can handle much greater volumes of work, and that this additional work will pay for the CADD system. While this may occur in some instances, it should not be heavily factored into a decision on CADD.

* * * *

CADD is a technology that is finding acceptance and growing rapidly throughout the engineering community. Firms in private practice need to be careful, however, when they consider the financial affect it will have on future operations. Changes in how engineering services are billed, quality of engineering databases and additional services that can be offered using CADD are three of the many factors that need to be considered before decisions are made regarding a technology that is significantly changing the economics of our profession.

LES Board of Direction December 6, 1985 Meeting

The December meeting was held in the LES state office with 23 board members, five guests and the LES staff in attendance. Those in attendance were treated to a luncheon prepared by the staff and were invited to the Baton Rouge Chapter Christmas Party that evening at the home of Eleanor and Kenneth Perret.

1. The October financial statement was approved subject to the annual audit. The chapter presidents were urged to encourage their members to pay 1986 membership dues as early as possible.

2. The LES Legislative Committee met prior to the Board meeting and received a report together with some draft legislation from Gray Sexton, LES attorney. Draft legislation presented by Sexton covered worker's compensation umbrella legislation and limitations on the liability of certain persons performing hazardous and pollution discharge mitigation or clean-up in asbestos abatement services. Sexton provided three suggested drafts of legislation on the latter. Two of the suggested acts would amend and re-enact Article 2315.1 of Chapter 2 Title 5 Book III of the Louisiana Civil Code. The third suggested act would enact Article 2315:3 of Chapter 2 Title 5 Book III of the Louisiana Civil Code (Article 2315:3 does not exist as the present time). The committee will review the drafts and be prepared to make recommendations to the Board in January of 1986. Art DeFraites has been appointed as the LES representative to the Professional Liability Task Force Coalition. The Coalition was formed to address the growning concerns over the proliferation of personal lawsuits for damages against design professionals.

The Legislative Committee addressed an RFP from the Red River Waterway Commission. The committee is concerned about the RFPs and their request for price proposals for engineering services at recreational sites. The Board voted to confer with the Waterway Commission concerning the price proposal requests for professional services.

3. Pani submitted a written membership committee report. 42% of the administrative year has elapsed with only 36% of our quota obtained.

4. The Long Range Planning Committee offered nine items to the Board for its consideration on future meetings. The recommendations included changing the fiscal and administrative year of the Society to October 1-September 30. After a lengthy discussion, all items were tabled until the next meeting of the Board.

5. A written report was submitted by the PEG and PEC practice division chairmen.

6. The chapter presidents submitted written reports. Plans are underway in all chapters for the MATHCOUNTS competitions and Engineers Week functions.

7. A $200 contribution was made to the Louisiana Science & Engineering Fair.

8. The Engineering Education Report has been edited for distribution and the summary brochure is being prepared by the LES ad hoc committee. The brochure will be printed for distribution to the engineering colleges and to the legislators.

9. Two-hundred fifty-seven schools have registered for the regional MATHCOUNTS competitions. A budget for the program has been established. Regional competitions will begin the middle of February.

10. The Constitution and Bylaws Committee will submit proposed wording at the next meeting for MATHCOUNTS to be made a Standing Committee and for a rebate on student dues to the sponsoring chapters.

11. The Honors and Awards Committee named the 1986 recipients for five LES awards. The James M. Todd Technological Accomplishment Award will not be awarded this year. The awards will be presented at a banquet on February 7th in Alexandria.

12. The Board authorized that the LES attorney prepare a "Friend of the Court" brief to the Louisiana Supreme Court on behalf of LES on the case of Goodyear, et al **v.** Williams Engineering, Inc. The Board requested that NSPE and PEPP assist in the financial cost.

13. The PEPP division will chair the committee to nominate members to the Engineers Selection Board. The other four practice divisions will appoint representatives to serve on the nomination committee.

14. Questions were raised regarding the method of voting and selection of award recipients. The Honors and Awards Committee will discuss th rules of selection at their next meeting.

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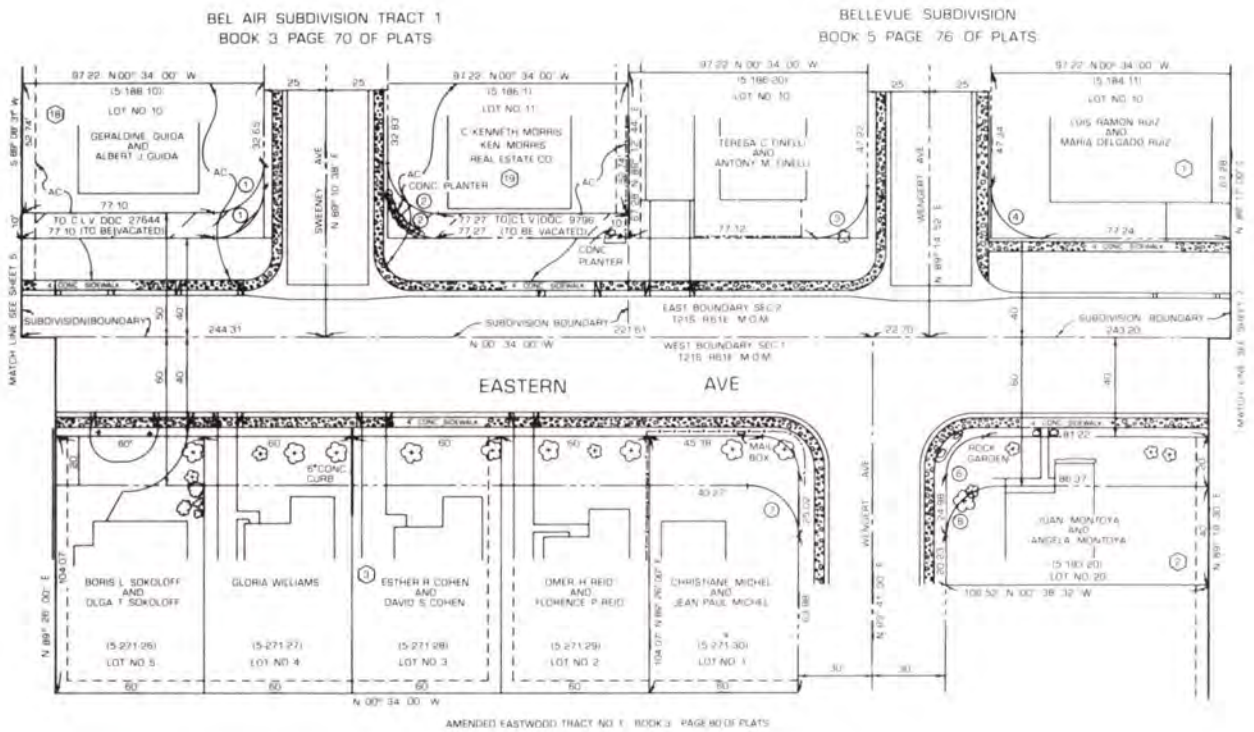

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NÔTRE MÉTIER

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

ANNUAL REPORT

Louisiana State Board of Registration For Professional Engineers and Land Surveyors

For 1985

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	561
Applications disapproved	175
Applications withdrawn	60

Land Surveyors

Applications approved	21
Applications disapproved	33
Applications withdrawn	16

Engineers-In-Training

Applications approved for certification	639
Applications disapproved	244

Land Surveyors-In-Training

Applications approved for certification	12
Applications disapproved	13

The following is a tabulation of the total number of 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, 1985:

Professional Engineers	15,005
Land Surveyors	2,684
Engineers-In-Training	4,068
Public Employees	3
Land Surveyors-In-Training	45

Below is a tabulation of the number of Professional Engineers registered in the various branches as of December 31, 1985. (Some persons are registered in more than one branch.)

Agricultural	212
Chemical	1,253
Civil	6,100
Electrical	2,349
Industrial	142
Mechanical	3,965
Metallurgical	41
Mining	37
Petroleum	1,320

A total of 1516 written examinations were administered in 1985. Of these, there were 968 examinations in the fundamentals of engineering, 31 in the fundamentals of land surveying, 467 in the principles and practice of engineering, 15 in the principles and practice of land surveying and 35 in the laws and procedures of land surveying in Louisiana. Engineering examinations were administered at examination centers in Baton Rouge, Lafayette, New Orleans and Ruston in April and October. On the same dates, land surveying examinations were administered in New Orleans.

Annual Report to the Governor

Dear Governor Edwards:

Pursuant to the provisions of Act 568 of 1980, I submit the report of the transactions of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors for the fiscal year 1985. A duly certified audit and financial statement showing the receipts and disbursements for the fiscal year ending June 30, 1986 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:

Chris Demopulos, July 31, 1986; James W. Reeves, January 24, 1987; Edward J. McNamara, July 31, 1987; Verdi Adam, February 7, 1988; Arthur R. Theis, July 29, 1988; H. L. Henry, Jr., July 31, 1988; Francis C. Roy, August 24, 1989; Marion J. Chaney, November 21, 1989; Rodger D. Phelps, September 14, 1990; Robert W. Parks, August 2, 1991.

At the annual meeting of the Board held on January 28, 1986, the following officers were elected:

Verdi Adam, Chairman; Marion J. Chaney, Vice Chairman; Rodger D. Phelps, Secretary.

Very truly yours,

Francis C. Roy
Chairman of the Board, 1985

Members of the Board

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

Private Practice of Engineering:
Chris Demopulos, Marion J.



1986 - State Board of Registration Members and Staff

Back row - left to right, Robert W. Parks, Francis C. Roy, Chris Demopulos, James W. Reeves, Arthur R. Theis, H. L. Henry, E. J. McNamara and Benjamin S. Harrison, Board Investigator. Front row - left to right, Paul Landry, Executive Secretary; Rodger D. Phelps, Secretary; Verdi Adam, Chairman; and Marion J. Chaney, Vice-Chairman.

Chaney, and Robert W. Parks

Engineers in Government Employment:

Verdi Adam and Arthur R. Theis

Engineers Employed in Industry:

Edward J. McNamara and Francis C. Roy

Engineers Employed in Education:

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

Professional Engineer and Land Surveyor Engaged in Land Surveying:

Chris Demopulos

Professional Land Surveyor:

Rodger D. Phelps

Mr. James L. Meyer's term on the Board expired in August, 1985. Mr. Robert W. Parks was appointed as his replacement.

Mr. Chris Demopulos's term expires on July 31, 1986. His replacement shall be a registered professional engineer who is also a registered professional land surveyor, and who is engaged in the field of land surveying.

* * *

Practice of Land Surveying

Attorney General Opinion No. 85-53
December 4, 1985

Mr. Stephen V. Estopinal, as President of the Louisiana Society of Professional Surveyors, requested an opinion regarding surveying in the State of Louisiana and it is published herein. This should help all professionals (engineers, architects, landscape architects, and surveyors) gain a better understanding of Louisiana Revised Statute 37:682 (9) which defines the "Practice of land surveying."

Dear Mr. Estopinal:

You have asked for an opinion from this office regarding the clarification of La. R.S. 37:682(9), which reads as follows, to wit:

> (9) "Practice of land surveying" shall include the measuring of areas, land surfaces, streams, bodies of water, and swamps, for correct determination and description, for the establishment, reestablishment, ascertainment, or description of land boundaries, corners, divisions, distances, and directions, the plotting and monumenting of lands and subdivisions thereof, and mapping of topographical work.
>
> A person shall be construed to practice or offer to practice land surveying who engages in land surveying and who by verbal claim, sign, advertisement, letterhead, card, or in any other way represents himself to be a land surveyor, or who represents himself, as able to perform or who does perform any land surveying service or work, or any other service designated by the practitioner which is recognized as land surveying."

You have advised that presently the Louisiana State Board of Registration is interpreting the law to state that only land title boundary surveying is the exclusive realm of the registered professional surveyor. Other forms of surveying, such as mapping, topographic work, etc. **may** be performed by or under the direction of a registered land surveyor or **may** be performed by or under the direction of other professionals (e.g., engineers, architects, etc.).

You have further advised that a question has arisen in that some have interpreted the statute to mean that mapping and topographic work is exclusively in the realm of the registered professional surveyor in the same way that boundary surveying is the practice of land surveying.

We have reviewed La. R.S. 37:682(9) and believe that the statute is referring to that discipline related to boundary surveying. The entire subpart of this particular statute is concerned with the determination of boundaries by the establishment of corners, divisions, distances, and directions all necessary for proper mapping. The phrase "mapping and topographical work" as used in the context of

this subpart refers specifically to activities relating to the establishment of these boundaries.

Consequently, we are of the opinion that other professionals may engage in mapping and topographical work such as the creation of street maps, other road maps, or maps and charts used by aviators, construction surveys and hydrographic surveys. We are of the opinion that it was never the intention of the drafters of the legislation to require that a professional land surveyor perform all the other services in which mapping and a certain amount of topographical work would be necessary. We understand that engineers, architects, and landscape architects all engage in a certain amount of mapping and topographical work. Consequently, we do not think that such endeavors require the services of a professional land surveyor and conclude that this is not the intent of the subpart of the statute.

Parenthetically, we would advise that the certification that a particular map or topographical survey has been reviewed and approved by a professional land surveyor would, in all probability, lend much more legal weight to the legitimacy of a document and we would advise that at any time one is to rely on a boundary from a legal standpoint that whatever maps and topographical work is to be done should be done by a professional land surveyor.

If we may be of further service in this matter, please advise.

Very truly yours,
William J. Guste, Jr.
Attorney General

By:
David C. Kimmel
Assistant Attorney General

* * *

Report of Disciplinary Action

A hearing was held on March 26, 1984, and a rehearing was held on May 22, 1984, at the offices of the Louisiana Board of Registration for Professional Engineers and Land Surveyors in the matter of Mr. August Anthony Babin. Mr. Babin is a certified Engineer-In-Training with the Board, Number T-3958, and a registered Professional Engineer in the states of Texas and New Mexico.

Formal charges against Mr. Babin were preferred by the Board pursuant to Section 37:698 (A) (1) of the Louisiana Revised Statutes, which authorizes the Board to take disciplinary action against any registrant or certificate holder found guilty of any fraud or deceit in obtaining a certificate of registration or certification.

Mr. Babin's application for Professional Engineer registration by reciprocity was found to lack substantial information requested in the third question on the application form, which asked for "information regarding registration obtained or denied in Louisiana or other States and any technical examinations, whether passed or failed, taken in connection with legal registration, etc." In response to this question Mr. Babin listed only his registration as a professional engineer in Texas, obtained in 1983.

By his own admission and by stipulation of his attorney, Mr. Babin failed to supply much information directly responsive to the question, including his Louisiana E.I.T. certification, numerous past examination failures in Louisiana, Texas and New Mexico, and prior disapprovals of his P.E. application by the Louisiana and New Mexico boards. Mr. Babin denied practicing any fraud or deceit in his attempt to become registered, and explained the omissions in his application by stating that he did not have accurate records of the information requested, that he believed that providing no information was preferable to providing incomplete information, and that in his opinion the Board should have had all of the requested information in its own records.

Following the rehearing, the Board by a majority vote of seven (7) for, none opposed, one abstention, and two (2) absent, held that August Babin was guilty of deceit in his attempt to obtain Professional Engineer registration in the State of Louisiana, in violation of Louisiana Revised Statute 37:698 (A) (1). The Board ordered that August Babin receive a public reprimand and that this disciplinary action report be published in the *Louisiana Engineer*. In addition, the Board ordered that Babin's employer, the Louisiana Department of Health and Human Resources, and also the Louisiana Department of Civil Service, the Texas State Board of Registration for Professional Engineers and the New Mexico State Board of Registration for Professional Engineers and Land Surveyors be informed of this decision.

Mr. Babin petitioned for judicial review of the Board's decision to the Civil District Court for the Parish of Orleans, State of Louisiana. A hearing was held on December 14, 1984 and the Court affirmed the Board's decision in a Judgment rendered on December 17, 1984. Mr. Babin then filed an appeal in the Court of Appeal for the Fourth Circuit, State of Louisiana, which court also affirmed the decision of the Board. No further appeals were taken, and the Board decision is final.

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:

1986

June 3	**September 23**
July 22	**November 18**

EXAMINATION SCHEDULE

	SPRING Apr. 11, 1987 Apr. 16, 1988	FALL Oct. 25, 1986 Oct. 31, 1987
Fundamentals of Engineering Examination (8 hrs.)	X	X
Fundamentals of Land Surveying Examination (8 hrs.)	X	X
Principles and Practices of Engineering (8 hrs.) Civil (Including Structural & Sanitary), Mechanical, Chemical, & Electrical	X	X
Agricultural, Industrial, Metallurgical, Mining & Petroleum		X
Principles and Practices of Land Surveying (4 hrs.)	X	X
Laws and Procedures of Land Surveying (4 hrs.)	X	

Apply at least *six* to *eight* months prior to an examination. Board approval *must* be given for anyone to be scheduled for an examination.

The applicant and the Board depends upon information provided by third parties in the processing of an application, therefore no assurance can be given that one will be scheduled for a specific examination.



POTPOURRI

Leta Bueto
Executive Director
Louisiana Engineering Society

WHITE PAPER REVEALS EXTENT OF THE LIABILITY CRISIS

Engineers, architects, doctors, accountants, lawyers, and municipal governments in recent years have found it increasingly difficult to obtain liability insurance. In some cases, coverage simply cannot be obtained. In others, coverage is available, but only at exorbitantly high premium rates. In the case of engineers, coverage of asbestos removal, hazardous waste cleanup, and other pollution-control work often is excluded from policies.

With the liability problem assuming crisis proportions, NSPE has been exploring the implications for professional engineers and examining the potential solutions being proposed. One result of NSPE's investigation is the newly published white paper, "The Liability Crisis."

The paper is presented in two parts. The first deals with immediate problems and the current steps being proposed to solve them. Part II treats the long-term problems that are at the heart of the liability insurance crisis: problems with the legal system that will require many years of effort to change.

Among the legal reforms discussed are changes in worker compensation laws; limitation of frivolous lawsuits; the use of pretrial panels to determine the merits of a potential liability case; the use of arbitration, mediation, and other alternative dispute-resolution techniques; the creation of "unified risk insurance" policies covering all participants in a project; limitation of "contingent fees" (fees determined as a percentage of a jury award) for trial lawyers; and limitation of punitive damages and awards for pain and suffering.

Written by NSPE General Counsel Milton F. Lunch, "The Liability Crisis" was produced with the help of the Professional Liability Insurance Committee of NSPE's Professional Engineers in Private Practice division. Copies of the paper (NSPE Publication No. 1975) are $10 for NSPE members, $15 for nonmembers. They are available from Orders Desk, NSPE, 1420 King St., Alexandria, Va. 22314; (703) 684-2881.

LIABILITY CRISIS SPURS ACTION ON SEVERAL FRONTS

Fed up with outlandish liability claims, huge court settlements, and the resulting skyrocketing of insurance costs, 24 organizations, including several from the construction industry, have banded together to form the American Tort Reform Association, whose announced goal is the overhaul of the U.S. civil justice system. James K. Coyne, executive vice president of the American Consulting Engineers Council, heads the new organization.

Decrying the "litigation pollution" that is forcing many small enterprises out of business for lack of affordable insurance, Coyne told an opening press conference that the group will work to reform lawyers' contingency fees, limit awards for punitive damages, and restrict the use of joint and several liability. Information on ATRA activities can be obtained from Murray Keene of ACEC, 202/347-7474.

Within days of ATRA's official launching, the U.S. Chamber of Commerce announced formation of a National Clearinghouse on the Liability Crisis that will perform many of the same functions, working with state, regional, and local groups to stem the tide of civil litigation and press for increased insurance availability. Clearinghouse hotline is 202/463-5528. Queries, case histories, etc., are encouraged.

OUTSTANDING ENVIRONMENTAL PROFESSIONAL AWARD PRESENTED TO JOHN KOURY, P.E.

The Outstanding Environmental Professional Award was presented to John Koury, P.E., a member of the Louisiana Engineering Society, on January 23, 1986 at the Louisiana Environmental Health Association Annual Educational Conference in Alexandria, LA. The award was presented by Bill Endris, state engineer. This is a new award which has recently been developed for peer recognition of exemplary accomplishment and professionalism exhibited by an environmental professional, and John Koury is the first individual to be presented this award.

Koury graduated in 1959 from the University of Southwestern Louisiana with a B.S. Degree in Petroleum Engineering. Since receiving this degree, he has been in state service. In 1966 he received a Masters of Public Health Degree majoring in Sanitary Engineering from Tulane University. He is a registered professional engineer in the fields of civil and petroleum engineering.

While Regional Engineer with the State Health Department he also organized and directed emergency preparedness procedures for southwest Louisiana. He received the Distinguished Service Medal from Governor Edwards through the Louisiana National Guard for his organizational and directional activities during the Morgan City Flood of 1972.

Koury has been active in the Louisiana Conference on Water Supply, Sewerage and Industrial Wastes for 27 years and served as its Chairman in 1973. He initiated and guided the formation of an organization for Water and Wastewater Treatment Plant operators in southwest Louisiana which now has similar chapters located throughout the state.

In 1984 he was appointed Assistant Secretary of the Office of Solid and Hazardous Waste of the Department of Environmental Quality, which position he presently holds. This office contains four divisions: (1) Solid Waste Division, (2) Hazardous Waste Division, (3) Inactive and Abandoned Sites Division, and (4) the newly formed Ground Water Protection Division. He has dedicated himself to the development of clear and concise regulations; the consistent and fair application of those regulations; the aggressive pursuit of compliance; and the availability of his staff and himself to those seeking solutions to problems.

LSU OFFERS SHORT COURSE "NUMERICAL METHODS IN ENGINEERING APPLICATIONS"

Louisiana State University is offering a short course in Numerical Methods in Engineering Applications, May 13-14, 1986, on its Baton Rouge campus.

Continued on page 19



The Spec Sheet

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

Reforming the Tort System

The top priority item this year among the various professional organizations nationwide appears to be an attempt to reform the civil justice system. This is all tied in with unwarranted liability exposure and the liability insurance crisis. On January 21, 1986, James K. Coyne, Executive Vice President of the American Consulting Engineers Council, Washington, D.C., testified on the impact of insurance and liability on consulting engineers in public works programs. He spoke before the Committee on Public Works and Transportation. Coyne is also president of the American Tort Reform Association, a newly formed coalition of a number of organizations all concerned about a common problem. The following is the entire testimony by Coyne.

* * *

Mr. Chairman, members of the Subcommittee on Oversight & Investigations, my name is James Coyne. I appear before you today as Executive Vice President of the American Consulting Engineers Council (ACEC) and President of the newly formed American Tort Reform Association (ATRA).

The Public Works Committee's jurisdiction includes some of the highest risk projects for consulting engineers. Liability insurance is today nowhere available for hazardous waste removal engineering nor for the design of the rehabilitation of federal buildings, when asbestos is present. Firms performing structural engineering necessary for construction of dams, wastewater treatment plants, bridges, as well as public buildings, experienced an average increase in premiums of 54% in 1985.

The pollution exclusion published by the insurance industry in mid-1985 may eliminate coverage for environmental firms designing pollution control systems for water and air.

But the root cause of the crisis in insurance is not the insurance industry, but the American civil justice system. Five years ago a small minority of our firms were sued by their clients to remedy design errors or by personal injury claimants. Today it is not uncommon for engineering firms to have multiple suits at all times pending. Architectural/engineering (A/E) firms in 1985 averaged 109 new claims/100 firms and 210 claims pending/100 firms.

What we have in public works projects, as well as private and commercial projects, is a crisis in tort liability. This crisis extends to every facet of business life.

What is the crisis of our tort system? For that matter, what is tort law? For those of you who are not legal scholars, tort law is the law of civil wrongs other than the breach of contract. It's the framework for most of the lawsuits in America today.

Think of it instead as the dean of Stanford Law School did — as litigation pollution, or more precisely, as a disease dramatically weakening our nation.

It's a disease with 16.6 million lawsuits in America last year (Japan had less than 1% as many). It is a disease which consumes as much as $60 billion of our GNP, and wastes some of America's finest minds, best products, most successful research and production facilities and saps the creativity and energy of our public and private enterprises. And it's a uniquely American disease. Two thirds of the world's lawyers are in the U.S.

What are the symptoms? Such lawsuits occur everywhere — sometimes for the most frivolous reasons. They are reported in any newspaper almost any day and liability awards from these suits show no relationship with fact, fault or fairness. The acute symptom of the disease is a plague of insurance policy cancellations and premium increases.

Most of the 1986 policy renewals among our members for liability insurance show increases from 50 to 900%. Furthermore, almost everyone's deductibles are being doubled and limits of liability are being reduced.

The consequences for hazardous waste cleanup engineers, as we described above, as well as nurse-midwives, day care centers, asbestos removal contractors, ski areas, small towns and community colleges, LP gas distributors, new drug companies, landfill operators and thousands more, are they have to go bare — no one will write insurance at any price. They're facing bankruptcy, liquidation or the deadly game of litigation roulette. More than 13% of all ACEC firms went "bare" in 1985, but more sadly one in three of all of our smallest firms either cannot afford or cannot obtain liability insurance. As a result, the public is unprotected, as well as these independent businesses.

You've all heard the statistics — more than 400 million dollar awards in 1984 versus only one in 1962. Lawsuits increasing from 10-20% each year. It's great business for lawyers — of the 660,000 lawyers in the U.S. more than a third have joined the profession in the past five years. During that time, medical malpractice awards have increased more than 500%.

We're here today to introduce ATRA. We want to find a cure to this disease. We feel that basic tort reform is the only answer, together with a fundamental change in public attitude toward tort litigation. ATRA is the first and only national association to join together a broad army of public and private organizations to fight this litigation pollution. As you can see, we include professionals and trade associations, some of the biggest and some of the smallest. Our charter member organizations represent more than 960,000 businesses, professionals, schools, communities, partnerships and public entities. Collectively, they employ more than 19 million taxpaying Americans. And we expect more than 200 other associations to join within 30 days. We are all committed to curing this disease, lowering liability premiums, litigation expenses, and reducing the frequency of unjust and irrational lawsuits.

We have a two-pronged agenda. First, build a broad-based bipartisan public organization with the resources and capabilities to demonstrate to our nation's policymakers what has to be done.

Continued on page 20

LIMITATION OF LIABILITY PART II: IS IT TIME FOR A CALL TO ACTION?

There is a good deal of precedent for limitation of liability. The concept is deeply rooted in the English Common Law, and it has been successfully applied in the construction industry in the United States for more than a decade. It is based on the time-honored principle that risk ought to bear some reasonable relationship to the anticipation of gain. That seems fair.

Historically, limitation of liability has been a response to crises born of an imbalance of risk—to situations in which the survival of systems for the delivery of essential goods and services has been threatened by inordinate exposures to loss. The unprecedented severity of the professional liability problem facing architects and engineers today may well be an indication of just such an imbalance. It may be time to re-evaluate the limitation of liability alternative.

Lessons From The Distant Past

In the late 16th Century, when London ship-owners found themselves burdened with staggering claims for cargo lost at sea, they appealed to the British Parliament for relief. At issue was the survival of the nation's maritime industry. Recognizing that shipping was an inherently risk-prone activity and acknowledging that both shipowners and the owners of the cargo they carried stood to benefit from the undertaking, Parliament concluded it was unfair for the shipowners to have to bear the entire risk. It acted to limit their liability to the value of the ship's hull.

This not only solved the shipowner's problem, but it had an important impact on the evolution of a vital industry, as well. The parties found themselves with a far greater interest in minimizing the possibility of mutual loss than in continuing their battle to maximize the gain of one at the expense of the other.*

A Model Closer to Home

In the early 1970s, geotechnical engineers in the United States faced a similar crisis. Inundated with claims of professional liability and burdened with a history of losses grossly out of proportion to their participation in the industry they served, they suddenly discovered they could no longer purchase professional liability insurance at any price. The stakes were high. The survival of the profession was in jeopardy.

Out of this crisis came a resolution to act. The Association of Soil and Foundation Engineers (ASFE) was formed, and the concept of limitation of liability was introduced. It was the beginning of a decade-long effort to persuade clients, contractors, the bar, and the bench of the necessity of placing some reasonable limit on the risk of expressing a professional opinion.

It was a controversial innovation. The barriers to success seemed insurmountable at first. The enforceability of the concept was clouded by uncertainty and doubt, and there were widespread reservations about the priority of shifting responsibility for professional performance to someone else.

How well have the members of ASFE fared? The barriers to limitation of liability have proven to be anything but insurmountable. Its use has become commonplace, and its enforceability has been established in state after state. Today, it provides geotechnical engineers with an essential measure of protection against the consequences of yet another, rapidly deteriorating professional liability environment.

Closing the Loop

The professional liability problem facing architects and engineers today is very much like the crisis that threatened the geotechnical engineering profession 15 years ago. As the courts cast further and further afield in their search for resources to make the injured whole, defense costs and losses continue to mount. Insurance premiums are skyrocketing.

To make matters worse, the capacity of the insurance industry is rapidly being eroded. As a result, underwriting has become more and more restrictive in terms of both the selection of risks and the breadth of coverage offered. Some firms are unable to find an insurer willing to offer them coverage under any set of circumstances. For many, survival has indeed become an issue.

The seriousness of the problem has propelled professional liability to the forefront of concern for architects and engineers throughout the country. As ACEC, ASCE, and the AIA mobilize their resources to search for solutions, it may well be that a unified effort to expand on ASFE's limitation of liability initiative is called for. Certainly, it is an option that might be given careful consideration.

Persistent Reservations

From your point of view, there are three major concerns: 1) your sense of professional responsibility to your clients and to the public; 2) the intensely competitive nature of the marketplace in which you offer your services, and 3) the inherent difficulty in introducing yet another issue of responsibility into your negotiations with your clients. Balanced against these concerns are the escalating legal and insurance costs you face. They tend to make the concept of placing some reasonable limits on your potential liability to others more compelling than ever.

How much are you willing to gamble for the privilege of keeping your doors open and enjoying, at least in good years, the possibility of a modest profit? Is it worth putting your practice on the line with each and every project you undertake? Is it worth risking whatever personal wealth you may have been fortunate enough to accumulate? Probably not. Why, then, would it be unreasonable to seek to place some limit on your exposure to loss? Many architects and engineers have done so for years—in spite of intense competition and the difficulties they have encountered in explaining their position to their clients.

Setting National Priorities

It is time for action, and there is much to be done. As the profession gears up to respond to the professional liability threat, the question, "How much risk is too much?" might well be placed high on the agenda.

Limitation of liability is one option among many. It has proven successful for others. It deserves careful examination and reasoned debate. An extensive effort will be required to restore balance to the allocation of risk in construction, but there is strength in numbers. With your energy and support, the odds for success are high.

From (The Professional Liability Perspective, March, 1986, distributed by Alexander & Sanders Insurance Agency, Baton Rouge, LA)

* **Association of Soil and Foundation Engineers,** *What Owners Should Know about Limitation of Liability* (Silver Spring, MD: 1982), p. 3.

Professional Engineers In Government (PEG)

The Career of the Government Engineer: Trials and Tribulations

The Professional Engineer in career government service often finds himself in a complexity of relationships and duties which are difficult to sort out and resolve. The rewards of service in this unique environment are not always appreciated by those alien to it. The engineer in career government service, though usually specialized in his defined duties such as planning, design, construction, operations or maintenance, is typically involved in all areas of engineering because of the natural coordination, communication and support activities which transpire between them on a daily basis. He works for everyone. That is, he must be sensitive to the demands of his superiors, be cognizant of the needs of the elected and appointed officials who are responsible for operating his agency and most of all, sensitive to the needs of the constituents (the individuals) from which the government derives its power. All of these contacts are often first hand and many times raise conflicting issues which must be resolved.

The only sane way to perceive this situation is to accept the role of responsibility as a Professional Engineer in service to a complicated client in which you are often called upon not only to solve his technical problems, but also to help resolve his internal conflicts in relation to them. This must be done in the same work environment in which most Professional Engineers are familiar. The uniqueness of this career is on the one hand like the engineer's in industry. You are not an interim servant but a continuous servant where problems and solutions appear to be perpetual. On the other hand, like the engineer in private practice, you must often deal with unsophisticated clients whose trust you must earn and retain through honest and diligent service.

Nobody said it would be easy to work in government service, and it isn't. You share the same distinction and frustration that all other Professional Engineers experience at one time or another during their careers. No one notices a well-engineered effort because they are not supposed to. That is usually why it is well engineered. Everyone notices the mistake and its costs. The chronic difficulty all career engineers in government must accept is lower compensation for their services when compared to those who utilize the same talents in the private facets of the economy. When a comparatively youthful, senior administrator engineer in government leaves his position suffering from salary compression for a private business, he is compensated three to four times that which his government position or any future positions would provide, it gives the young, energetic and ambitious engineers cause to contemplate their future and sometimes the incentive to leave government service before they advance very far.

The proverbial argument that Professional Engineers in government accept their lower salaries for the shelter of job security is not true. If you believe this ask the 2,500 engineers in one state and the 1400 engineers in another state who were laid off their government jobs en masse when the Interstate Highway System design and construction neared completion in their states. Engineers in government service are generally not trapped because those who wish to do leave for comparable or higher salaries. They serve because they find other forms of compensation beside money in their government careers. It might be said we enjoy the job we love to hate. Probably, this statement can only be understood by the government employed engineer with noted exceptions.

The compensation issue in government employment crosses all professions where there is competition between government and the private sector for their services. In Louisiana, government appears to be more enamored with the tangibles such as highways, buildings, sewage treatment plants, etc. than with staffing itself with the people it takes to achieve and operate them. This tradition is seen in education and other government services as well. The career engineer in government service has simply learned to accept this fact of life as have the other professionals in government service. The point at which the rewards-other than monetary-can no longer justify the standard of living or the moonlighting to catch up, must be, and always has been, a personal decision each of us must make when the time comes.

The rewards for the engineer in government service are in part, those hackneyed items found on the shopping list in your ordinary, mail-order management course. We like our work environment, even with its uncertainty and the opportunity to serve the public first-hand through our professional training and experience. We enjoy the broadening experience of being the managers entrusted to care for the facilities our governments provide their constituents. We ponder the frustration of having to represent sound engineering issues in conflict with some special interests that have the advantage of the attention a few well-placed campaign contributions command. To gain a reasonable compromise under these circumstances is truly rewarding.

The major events that shape the lives in our community are often associated with the services we provide in one form or another. It gives the engineer in government a special sense of place and balance in career and life which are for the most part inseparable.

The key word that is used almost to an excess herein is service. Like most engineers, the engineers in government find their ultimate reward in service and not as some would think in building monuments to reputations, profession or their own names. We are guilty of the sin of pride in our service. Even those who leave government service more often than not remember their experience with a certain fondness that transcends the rationale they used to make the decision to depart.

If there is any one significant fault that one can find with government employment as an engineer, and other than compensation, it is the lack of opportunity for professional enrichment. Government only spontaneously and all too infrequently offers the opportunity to its Professional Engineers to enrich their careers through supporting and en-

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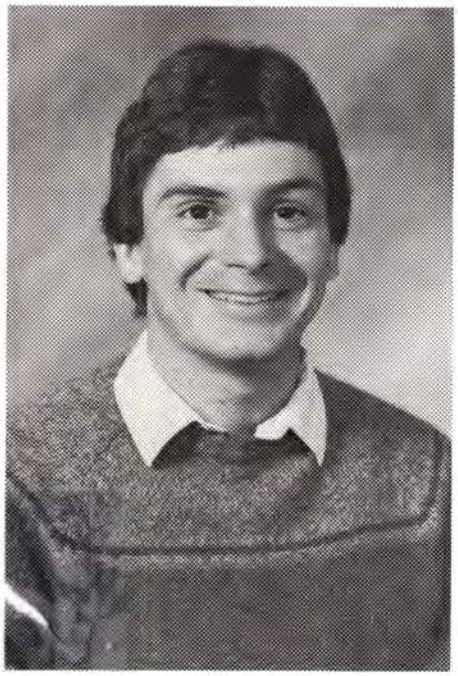

LOUISIANA ENGINEERING FOUNDATION PRESENTS ANNUAL SCHOLARSHIP AWARD

Michael B. Boudreaux, a graduate student at the University of Southwestern Louisiana, received the Louisiana Engineering Foundation's 1985 Graduate School Fellowship at the Louisiana Engineering Society Awards Banquet on February 7, 1986 in Alexandria, Louisiana. The Foundation's $1,500 fellowship is presented annually to a graduate student of engineering who expresses a sincere desire to enter the teaching profession at the university level. A. J. Szabo, P.E., Domingue, Szabo & Associates, Inc., Lafayette, and president of the Louisiana Engineering Foundation, made the presentation.

Boudreaux was born and raised in Opelousas, Louisiana, the son of Hubert and Jeanette Boudreaux. He was valedictorian of the 1978 graduating class of Opelousas Catholic High and graduated Magna Cum Laude from USL with a bachelor of science degree in civil engineering in 1982. He has entered the master's degree program in engineering management at USL and plans to enter the doctoral program in the study of probabilistic engineering systems and processes. His ultimate goal is to enter the teaching profession at the university level.

He is single and his hobbies include bicycling, softball and maintaining a few acres of property. He is registered as an engineer-in-training and holds memberships in the Louisiana Engineering Society, American Society of Civil Engineering, Tau Beta Pi, Phi Kappa Phi, Chi Epsilon and the Blue Key Honor Fraternity. He is an outstanding recipient of the 1985 LEF Graduate 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.

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Continued from page 13

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Inquiries concerning registration, etc. should be directed to Dr. Doreen Maxcy, Division of Continuing Education, LSU, Baton Rouge, LA 70803, (504) 388-6621.

COURSE EMPHASIZING COMPUTER WORK

LSU's Summer Drafting Institute is accepting applications for a nine-week course oriented toward computer graphics training that will be offered on the Baton Rouge campus June 9 through August 1.

LSU professor Clarence E. Hall, program coordinator, said this year's institute will place heavy emphasis on computer-graphics training to prepare students to become "high-tech draftsmen."

The LSU program includes 120 hours of hands-on experience at a computer graphics terminal.

More information may be obtained by contacting the Continuing Education's short course office at (504) 388-6621.

FRANK H. WALK, P.E., INDUCTED INTO LSU ENGINEERING HALL OF DISTINCTION

Frank H. Walk, P.E., of New Orleans, a member of the Louisiana Engineering Society, was inducted into the Louisiana State University Hall of Distinction, established in 1979 by the LSU College of Engineering to recognize individuals who have made significant contributions to the engineering profession. Criteria for election include distinguished professional achievement, dedicated service to engineering, and outstanding humanitarian activities.

"The few persons selected for the Hall of Distinction have come from varied engineering backgrounds — from the highest levels of engineering research to the top management of multinational corporations," says Richard Matula, Dean of the LSU College of Engineering. "The two persons selected this year again represent the breadth of the engineering profession, one being from academia and one being a consulting engineer."

Walk is Chairman of the Board of Walk, Haydel and Associates, Inc., founded in 1959, the nation's 55th largest design firm, located in New Orleans, LA. He earned the B.S. in mechanical engineering at LSU in 1942. As a commissioned officer in the U.S. Army Corps of Engineers, he served with distinction in Europe, Africa, and the South Pacific.

IN MEMORIAM EUGENE F. MAYO, P.E.

Eugene F. Mayo, longtime member of the Louisiana Engineering Society, died in December, 1985. Mayo was born in New Orleans 72 years ago and attended local schools prior to matriculating in engineering at Louisiana State University in Baton Rouge. There he received his bachelor's degree in electrical engineering in 1942. Shortly thereafter, he entered the armed services during World War II where he served for the duration and remained in the U.S. Naval Reserve becoming a Lieutenant Commander.

On leaving the active service, he joined New Orleans Public Service Inc. in the electric distribution department where he became an operating engineer serving until his retirement in December of 1978.

Mayo had two sons which accounted for his interest and activity in the Boy Scouts of America. He was also a member of the Press Club of New Orleans. He will be missed by his family, his fellow members in L.E.S., and his coworkers at Public Service.

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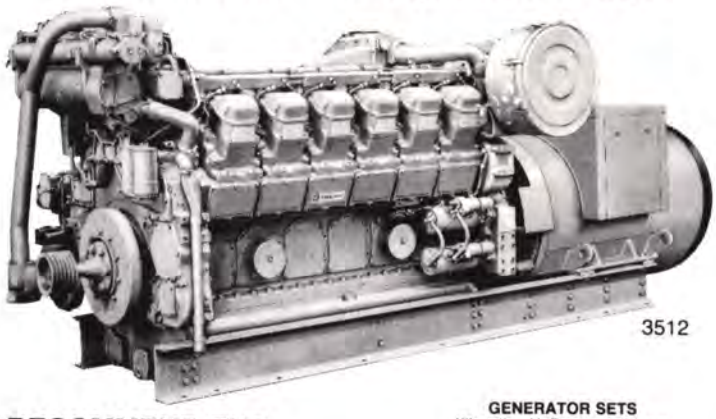

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SPEC SHEET

Continued from page 14

Many lawmakers hear only the voice of the Association of Trial Lawyers of America (ATLA). In fact, the multi-million dollar war chest they've raised to oppose tort reform demonstrates how their own self-interest is leading them to ignore their duty to the public.

Second, we intend to carry this effort to 50 state capitals this year. Tort reform will not come only by the efforts inside Washington's beltway. It will be the number one issue in at least 40 state legislatures this year. We stand ready to support these state efforts, especially with the help of the American Legislative Exchange Council, the leading organizations of state legislators concerned about tort reform.

Of course, national leadership is forthcoming. Attorney General Meese has created a special Working Group within the Domestic Council to propose tort reform proposals. Ass't. Attorney General Willard calls tort reform his #1 priority.

I am pleased to announce, as well, the membership of ATRA has been invited to the White House next month to air our concerns and explore ways we can help achieve our goals.

Chief Justice Berger tells the story of a small town with only one lawyer who is about to close up for lack for business. But then another lawyer moves in — now both are thriving. The Chief Justice has called for tort reform and the Judicial Conference, which he chairs, is actively reviewing several proposals.

Of course, Congress, too, will hold hearings. We believe it fitting that the Public Works Committee which is responsible for so much of the nation's infrastructure programs and environmental standards is the first committee to hear the ATRA message. Tort reform will certainly be an important item on the Congress' agenda this year.

Today we declare that the battle has begun. Much has to be done. The public needs to get a better understanding of how the arcane subject of tort law so severely affects their lives and their livelihoods.

We are confident of the success of our effort because of the broad public and private support and interest we have already received. We are confident that our friends in Congress will be interested and committed to join us in this effort.

PEG

Continued from page 16

couraging professional associations with engineers outside of the work place. Though not true in all cases, this is the rule rather than the exception for most engineers in government service who reside in Louisiana. This is tragic for the many Professional Engineers in career government service whose professional consciousnesses have stagnated with cynicism because of this lack of leadership and interest in their professional development. Perhaps even more tragic is the loss of many bright and talented engineers from government service who may have found the incentive to stay had they been given the attention and interest through the support of their professional associations.

The small contingent of active Professional Engineers in government service in the LES has often used the LES associations as a form of the now-popular support group. The support group, as you may know, is used to aid people with personal and family disorders. This is one hell of a way to treat your profession. There is a message in this that is not that subtle. Consider the positive effects that could be achieved if governments offered encouragement and support to their Professional Engineers for their career enrichment.

The LES is currently reviewing and testing the waters for possibly establishing organizational memberships that would possibly allow a government or corporation the privilege of several individual memberships for their employees at a discounted rate for a set organizational annual dues. This may be the catalyst that will bring many of the government employed engineers the encouragement and support they need and indeed deserve from their employer.

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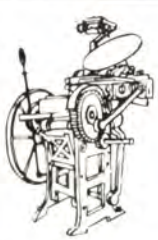
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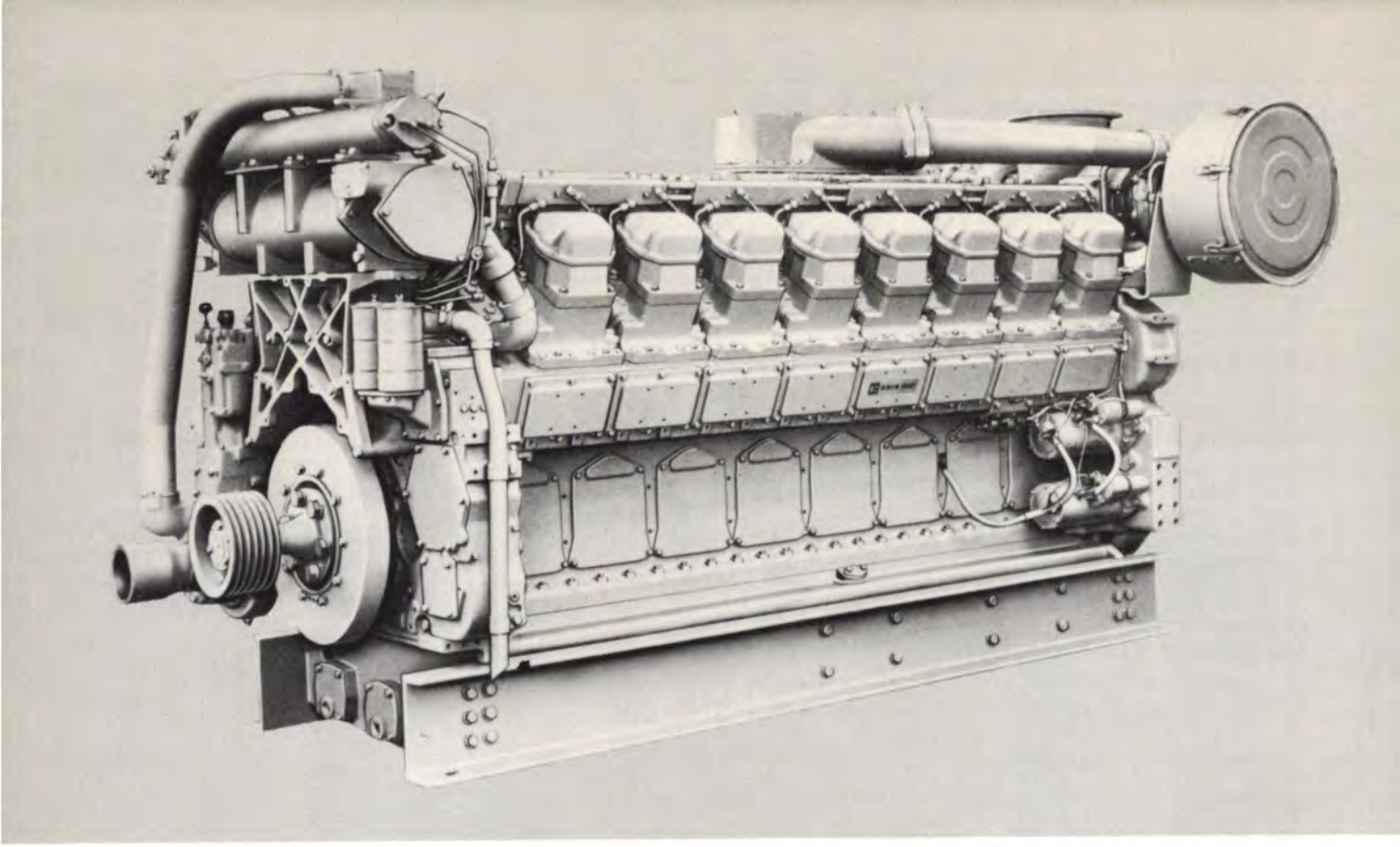

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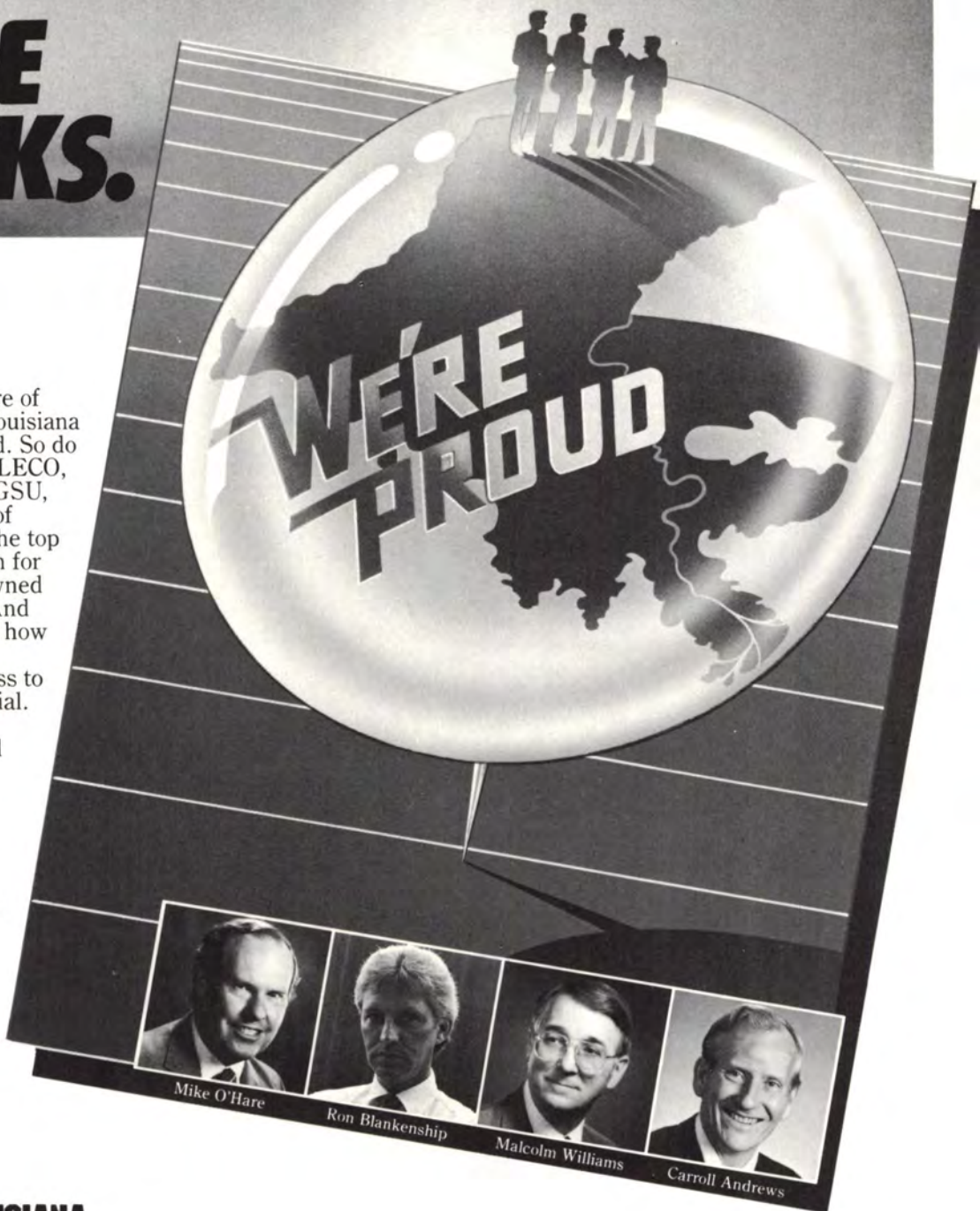

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Presidential Privilege

It's Been A Good Year



Vincent A. Forte, P.E.
LES President

This is the last privilege that I have to address you as President of the L.E.S.. The term seems as if it began only yesterday. How the time flies. And while the year has been surrounded by a trying economy for not only engineers but other professionals, L.E.S. has remained committed.

We should be especially proud of MATHCOUNTS. This program for seventh and eighth graders is now in more than 250 schools in our state. Through our efforts, thousands of students around Louisiana are participating.

In our schools, the career guidance committee is also attempting to make students more aware of the engineering profession. Through career days and other special programs, the young adult has a better understanding of our discipline.

Also, a study of engineering education has been completed in our work with the Council of Deans. The brochure has already been presented to the Louisiana Legislature. Through this information, we hope to inform lawmakers of the needs in engineering schools statewide. We must have excellence in engineering education to keep us competitive nationwide.

Meanwhile, our Legislative Committee is actively involved with L.A.B.I.'s coalition on many issues—professional liability, a top one. We must attack this problem now. In some cases, professional liability insurance is so high that companies simply can't afford it.

Our young engineers, organized primarily of engineers in training, have their own concerns. The issues of registration and the information that special programs and seminars offer top their list of priorities. They, too, are in the process of going after their needs.

It's taken the efforts of our members, local officers, our own Board of Direction and staff to keep the Society ticking.

First, let me thank the staff. You have always been helpful. Leta has provided leadership at the L.E.S. office keeping our priorities in line, while Sue seems to be the one that allows all the work to just gel together. Debbie's dedication, especially to MATHCOUNTS, has assisted in leading that program where it is today.

The Board of Direction, despite our diverse background, has come together as a group with the number one quest in mind of improving the organization.

Our officers and committee chairmen have given their 100 percent. Chapter presidents have represented members well. Their input has contributed to leading the Society yearlong.

Chairmen of the practice divisions have been quite responsive in addressing the needs of various facets of the engineering profession. In several areas, their work leaves marks of improvement.

To you the members, without your participation, the organization wouldn't be possible. Keep up your involvement and recruit your engineer friends. We need more of you.

On my journey to various local chapters around the state, you so warmly welcomed me —making it all worthwhile.

Finally, congratulations to Bob Blanche and his new administration. I wish you well. You not only have a challenging but an exciting year ahead.

Thanks for allowing me to give only a small amount in comparison to the assistance and mountain of friends I've received while serving as your president.

It's been a good year.

LOUISIANA ENGINEERING SOCIETY

LES proudly endorses the following insurance program as a valuable service to its membership.

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Telephone (504) 273-1471

Name: _____

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MATHCOUNTS

The Engineering Profession's Finest Effort

By Kerry J. LaBauve, P.E.

The National Society of Professional Engineers is keenly aware of the "state of education" in our country today and is supportive of developing and implementing programs at all levels of education which enhance the offerings of math and science to students. At a time when the demand is growing highly trained engineers and scientists, fewer individuals are pursuing the opportunities and challenges related to the high tech world in which our future lies.

At the grass roots level, engineers across the United States are conducting MATHCOUNTS, the first nationwide program of its kind, combining the efforts of education, business, government, and the technological community to promote math excellence among junior high school students.

The concept of MATHCOUNTS was originated by the Engineering Societies of Alabama and Florida, and nationalized by the National Society of Professional Engineers in 1983. The program is sponsored nationally by the CNA Insurance Companies, and others to the tune of one million plus dollars annually. The competitions involve some seven million students and teachers across America and the number is expected to grow.

MATHCOUNTS was developed as a positive effort to: elevate the prestige associated with achievement in mathematics among seventh and eighth grade students; increase awareness of the importance of mathematics among parents, educators, and the general public; and to bring about improvements in mathematics curricula and instruction in seventh and eighth grades throughout America. MATHCOUNTS impacts these students during the formative years when attitudes about math and technology are being developed and there is adequate time to plan college preparatory course scheduling. Through competition with other students, these "Mathletes" as they are called, come to see math as an exciting subject; come to see themselves as unique achievers; and come to see the technological age with a new appreciation for math literacy.

The Louisiana Engineering Society is the catalyst in our state to activate the interaction between junior high schools and the National Society of Professional Engineers' headquarters in Virginia.



State Competition—Michael Theriot during optional round.



State Competition—Alexandria, La. Grading Room.



State Competition—North Lake Chapter Team.



State Competition—Luncheon, after testing and before awards.



State Competition—Mathletes at work on written round testing.



State Competition—Team winners, Baton Rouge Chapter - McKinley Middle Magnet.



Louisiana winning team at State Competition. Left to right, Claudia Allums State Coach from B.R.; Michael Theriot, B.R.; Jeremy Frens, B.R.; Melanie Hirshfield, N.O. Coach; Amy Crago, N.O.; Mona Davis, Lafayette Coach; and Wyatt Johnson from Lafayette.



Awards given at State MATHCOUNTS competition.

MATHCOUNTS activities can be initiated by teachers, the students themselves, or by interested parents. Teacher/coaches simply fill out registration forms distributed by the LES Regional Chapters, and forward them to NSPE headquarters. A complete kit of materials is sent to the schools by NSPE. The kit contains everything needed to form teams, start training, and conduct school competitions.

The training begins in September of each year as teacher/coaches begin limbering up the students with basic arithmetic exercises. The conditioning progresses through increasingly difficult challenges such as algebra, trigonometry, transformational geometry, and probability.

By mid-February, the Mathletes are primed for team tryouts in hundreds of schools across Louisiana. Teams are formed from the best math students in their schools and are bound for the first round Regional MATHCOUNTS Competitions. These students compete both as individuals and as teams for the right to carry their school banners to Semifinal State Competitions in Alexandria.

In April, the top four teams from each of the Regional Meets, journey to the Alexandria Hilton for two days of fun and testing. The Mathletes engage in fierce competition for several hours in hopes that they will place in the top ranking positions.

By mid-May, the Louisiana National Team composed of the top four individual Mathletes, along with the coach of the top ranking team travel with L.E.S. representatives to Washington, D.C., for the National Competition. During their stay in the nation's capital, the teams visit historic monuments, museums, and the capitol building.

The coveted awards given at each level of competition give tangible recognition for hard-won accomplishment, and finally, the top four Mathletes journey to Washington D.C., for the National competition in May.

The 1985/86 participation in Louisiana's MATHCOUNTS Program grew 400% from previous years. The 260 nationally represent 3.5% of the national total of 7,413 schools, and 35% of our potential registration of 750 schools.

Approximately 12,000 students participated in some level of MATHCOUNTS activities in Louisiana this year, with anticipated growth in years to come.

The performance of Louisiana's National Teams has fluctuated over the years, placing our state in rankings of 30th to 44th out of 54 competing entities. Individual Louisiana Mathletes have ranked as high as 48 out of 208 competitors.

The success of the MATHCOUNTS Program is derived from the dedicated efforts of the teachers who invest their spare time in the development of our children's education and future, and from the support of concerned citizens, such as Louisiana's Engineers. Louisiana's industrial, business, and professional communities have provided the financial backing and support which has stimulated the growth of the MATHCOUNTS Program. Contributors to the State MATHCOUNTS Fund include:

Investor-Owned Electric Companies
- Central La. Electric Company
- Gulf States Utilities
- Louisiana Power & Light
- New Orleans Public Service, Inc.
- Southwestern Power Energy Co.

Dow Chemical Company
Consulting Engineers Council of La.
La. Engineering Foundation
La. Engineering Society, Practice Divisions

No matter who is named the National MATHCOUNTS Champion in Washington, everyone who is involved with MATHCOUNTS wins. The students, teachers, parents, schools, sponsors, the community . . . all are enriched.

Public support for the MATHCOUNTS Program can make a vital difference in its success. It is important to us all to get involved, to help give these bright young Mathletes a chance to become the uncommon denominator in our formula for the future.



Louisiana MATHCOUNTS National Team at airport in Baton Rouge, leaving for national competition in Washington, D.C. Aimee Crago, Wyatt Johnson, Michael Theriot, and Jeremy Frens.



Louisiana MATHCOUNTS National Team at Capitol with Senator Brinkhaus.



Mickey Christensen - Dow Chemical Representative - Sponsor.



Professional Engineers in Education

Every Engineer Can Help
Every Engineer Can Profit

By: Houston Huckaby, P.E.

Would you like to help make engineering education in Louisiana better? Would you like to improve the ability of new engineering graduates to relate to "real world" problems and designs decisions and consideration? At the same time, would you like to profit fully from the newest concepts and techniques of the new graduates and their universities?

If your answers are yes, then you should get involved in the attempt to bring engineering students and faculty into your practice, be it governmental, industry or private. In this way a better partnership can be developed between the engineers of the future, their teachers and you, the engineers of the present.

The exact conduct of the program is quite flexible. It might range from applied research grants to part-time employment of students and faculty, to you conducting seminars in which you demonstrate how you arrive at your final engineering design decisions.

If you have suggestions or recommendations, please write to the **Louisiana Engineering Society, P. O. Box 2683, Baton Rouge, LA 70821**, and the state office will forward them to the engineering colleges.

Continuing Technical Education Survey

The Board of Direction of the Louisiana Engineering Society would like to determine the continuing technical education interests of the membership. It has estimated that the half-life of engineering-scientific knowledge is ten years. For certain special areas very expensive national seminars are available. There is little or nothing available for the typical engineer who wishes to do a better job, remain up to date without pursuing graduate work while continuing to remain on the job. The following is a partial list of the topics:

Personal computer applications including computations, modeling special purpose languages, word processing, information storage and retrieval, and graphics.

Statistical decision making including process quality assurance and plan of experiments.

Industrial safety and hazards evaluation.

Special interests list _____

_____

_____

Further, would you prefer instruction as:

—evenings in classes

—weekends in classes

—closed circuit TV

—individualized self-paced on video cassettes

—correspondence courses

—personal computer-based instruction

—others (enumerate) _____

_____

Please note this is technical as opposed to the also valuable engineering management and/or business or organizationally averted continuum education program.

LES Board of Direction February & March Minutes

February 8, 1986 Meeting

The February meeting was held in conjunction with the LES Awards Meeting, February 5-8, 1986, at the Alexandria Hilton Hotel, Alexandria, LA. There were 21 board members, 6 guests, and the LES staff in attendance.

1. The November, December, and January financial statements were approved subject to the annual audit.

2. Leo Odom, P.E., presented a request from the Department of Natural Resources to form a LES committee to work with the Division of State Lands to assist them in locating and managing state owned lands and waterbottoms. The LES committee: James R. Gilbert, P.E., Blaise M. Carriere, P.E., and Jack Laws, P.E. The state committee is Carl Berthelot, Division of Administration; Karl Morgan, Division of State Lands; and N. F. Pecquet, West Baton Rouge Parish Assessor (representing the Assessor's Association).

3. A membership report was distributed. 58% of this recruiting year has expired and the Society has recruited only 28% of the annual new member quota.

4. The Legislative Committee reported on the Coalition on Liability Insurance. The coalition is preparing a "white paper" to be presented. LABI is preparing legislative bills on the liability problems and the bills will be filed under the LABI umbrella. The committee is still developing legislation on worker's compensation umbrella and limitations on the liability of certain persons performing hazardous and pollution discharge mitigation or clean-up in asbestos abatement services.

5. The Long-Range Planning Committee submitted its recommendations to the Board. The Board adopted the following recommendations: (1) to have one meeting in the fall and one in the spring with the fall meeting being the annual meeting; (2) to move the administrative year and fiscal year to October 1 through September 30 with this change to become effective in 1987; (3) to have the incoming, newly installed second vice-president for the coming year chair the fall meeting committee for the next year's fall annual meeting, and that the incoming, newly installed first vice-president chair the awards meeting committee for the next year's spring awards meeting; and (4) that the new program format would include time for programs.

6. The 1986 Annual Meeting will be held in New Orleans, June 18-21, Royal Orleans. The Shreveport Chapter extended an invitation to host the 1987 Annual Meeting.

7. The Board adopted a resolution to officially and publicly go on record as supporting and endorsing the concept of a Constitutional Amendment establishing a Louisiana Highway Trust Fund, funded through the avails generated by the eight cents per gallon gasoline and special fuel tax dedication in order to provide adequate and recurring funding for transportation improvements throughout the state.

8. The New Orleans Chapter of the Louisiana Engineering Society will host the 1991 NSPE Winter Meeting in New Orleans.

9. On January 17, the 5th Circuit Court of Appeals issued a statement that they will not review the case involving engineer Milton Williams. Therefore, attorneys for Williams are in the process of submitting writs of certiorari and review to the Louisiana Supreme Court petitioning the court to review the case in question. Briefs submitted by various organizations will be submitted to the Supreme Court no later than February 17th supporting the petitions being filed by Mr. Williams' attorney.

10. A draft of the Engineering Education Study is in the hands of the Council of Deans for their review.

11. The term of Chris Demopulos, P.E., member of the State Board of Registration for Professional Engineers and Land Surveyors, expires July 31, 1986. The Selection Committee is composed of Lloyd Hoover, P.E., Chairman; Members: Frederick Brown, P.E., and Richard Wright, P.E.

12. The Nominating Committee's slate of officers was presented to the Board. They are: President-Elect, Bobby E. Price, P.E.; Second Vice President, James W. Reeves, P.E.; Secretary-Treasurer, Blaise M. Carriere, P.E.; State Directors, Eric S. Duck, P.E. and Kerry J. LaBauve, P.E.

March 21, 1986 Meeting

The March meeting was hosted by the Lake Charles Chapter with 17 board members, 4 guests and the LES staff in attendance.

1. The February financial statement was approved subject to the annual audit.

2. A membership report was distributed. The Society has gained 134 new members since the beginning of the contest year. The state office has ordered invitations to solicit newly registered engineers which includes congratulatory statements on their registration. A sustaining membership classification was discussed. The Membership Committee will look further into this member category.

3. The Legislative Committee chairman presented the latest drafts on the two bills LES is proposing for this session. A couple of minor changes were recommended. McKee will contact the LES attorney concerning the recommendations.

4. The Board approved further recommendations by the Long-Range Planning Committee. They are: (1) daily registration fees be established for one-day conference attendees; (2) discount be allowed for persons who preregister and prepay for the conference; (3) procedures for rotating the spring and annual meetings throughout the state; and (4) the procedures for constituting the Long-Range Planning Committee. The committee is also looking at a five year plan (goals) for the Society.

5. A report was given on a questionnaire printed in the October 1985 issue of the LOUISIANA ENGINEER magazine on "limitation of campaign contributions."

6. The Supreme Court of Louisiana on February 17, 1986, granted the motion filed on behalf of LES, CEC/L, and others for leave to file briefs, Amicux Curiae on the Williams Engineering case.

7. The nominees to the Engineers Selection Board were named: Kearney Shaw, P.E. and James R. Ballard, P.E. The ballot should be mailed before May 15.

8. The Selection Committee to recommend a replacement for Chris Demopulos on the State Board of Registration is reviewing nominees.

9. The Engineering Education Study and Brochure are ready for distribution to the universities and the state legislators. The state office will handle the distribution to persons connected with the universities; and the chapter presidents will distribute to the legislators in their geographical areas.

10. Recommended wording for Bylaw 8(f) was presented for review. The change in the bylaw will rebate $2.00 for each student chapter member to the sponsoring chapter. The Board can act on this at its next meeting.

Continued on page 16



NÔTRE MÉTIER

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

What's In A Title!

Most of you reading this are registrants of the Louisiana Board. You are either a P.E., P.L.S., E.I.T., or L.S.I.T.

Let's define our terms:

P.E. equals "Professional Engineer" equals "Engineer"

E.I.T. equals "Engineer-In-Training"

P.L.S. equals "Professional Land Surveyor" equals "Land Surveyor"

L.S.I.T. equals "Land Surveyor-In-Training"

The law defines these terms:

LaRS 37:682 (4) - "Engineer" or "Professional Engineer" shall mean a person who, by reason of his special knowledge and ability to apply the mathematical, physical, and engineering sciences and the principles and methods of engineering analysis and design, acquired by an engineering education and engineering experience, is qualified to practice engineering as such term is hereinafter defined, as evidenced by his registration as such by the Board.

LaRS 37:682 (5) - "Engineer-In-Training" shall mean a person who has complied with the requirements for education, experience, and character, and has passed an examination in the fundamental engineering subject, as provided in this Chapter, and has been issued a certificate by the Board.

LaRS 37:682 (6) - "Land Surveyor" or "Professional Land Surveyor" shall mean a person who is qualified to practice land surveying, as such term is hereinafter defined, as evidenced by his registration as such by the Board.

LaRS 37:682 (7) - "Land Surveyor-In-Training" shall mean a person who has complied with the requirements for education, experience, and character, and has passed an examination in the fundamental surveying subjects as provided in this Chapter, and has been issued a certificate by the Board.

As a registrant of the Board do you always, sometimes, or never identify yourself as a P.E., P.L.S., E.I.T, or L.S.I.T. whenever you sign a letter? Or do you take the position, "I don't have to," or "It's not a company policy." My thoughts sometimes went this way. "Let me see. Should I put P.E. behind my name in this case; is it proper?" I've solved my dilemma. I now use P.E. all the time. That approach to the problem did backfire one time. That's when I signed, "Love, Dad, P.E. ." My son thought that meant, "Public Engineer."

Seriously, "Engineer" (which by law means "Professional Engineer") and "Land Surveyor" (which by law mean "Professional Land Surveyor") are not identifying themselves. It's been my observation that we're keeping the fact that we are professionals a secret. I had the experience once of calling on a P.E. who had been recently appointed to an important position. I congratulated him on his appointment and at the end of our brief meeting I suggested that he give consideration to the use of "P.E." in his communications. He promptly informed me that he had been appointed to the position because of his managerial abilities and not because he was a P.E. He manages a large, highly visible organization which does a substantial amount of engineering work which is in the interest of the public and refuses to identify himself as a P.E. Like many of you, his decision is legally proper—"I don't have to,"—"It's not a company policy." But, gentlemen, the message is loud and clear, **"I'm ashamed to be recognized as an Engineer!"**

It's ironic that people who cannot legally call themselves "Engineers" or "Land Surveyors," want to do so and people who can (registrants of the Board) don't want to.

As part of the Board's enforcement activities we uncover "flakes" or "imposters" who parlay themselves to high positions by taking on the identity of professionals. One imposter had reached the position of president of an engineering corporation before he was uncovered. Another "flake" stole a P.E.'s wall certificate, altered it, and proudly displayed it in his office. Both of these "gentlemen" have seen fit to seek domicile elsewhere.

So what's in a **title**—those who have it—**don't want it** and those who don't have it—**want it.** As a registrant of the Louisiana Board let me give you suggestions which will help in **protecting the public:**

(1) **Identify** yourself as a professional at **all** times. Do so by using the letters P.E., P.L.S., E.I.T., or L.S.I.T. in **all** your correspondence.

(2) If a person is **presented** as an "Engineer" or "Land Surveyor" he must, in Louisiana, be a registrant of the Louisiana Board.
Remember, by law "Engineer" means "Professional Engineer" and "Land Surveyor" means "Professional Land Surveyor." **Before** you do business with anyone who presents himself as a "Engineer" or "Land Surveyor" check out his credential. You can do this by calling the Board office. The fact that a person is a registrant of the Board is public information and available over the telephone.

(3) **Report** cases you suspect. Simply mail the business card or letterhead which are suspect to the Board office. We'll check out the situation and take appropriate action.

By law the public has the right to be protected. You as a registrant of the Board can help. Without your help, the law is not enforceable.

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:

1986

July 22
September 23
November 18

Report of Disciplinary Action

A hearing was held on February 13, 1986, at the offices of the Louisiana Board of Registration for Professional Engineers and Land Surveyors in the matter of Wallace L. Adams. Mr. Adams is a registered Professional Engineer with the Board, Number 07015, and a registered Professional Land Surveyor, Number 00384.

Formal charges against Mr. Adams were preferred by the Board pursuant to Section 37:698 (A) (2) of the Louisiana Revised Statutes, which authorizes the Board to take disciplinary action against any registrant or certificate holder found guilty of any misrepresentation, deceit and misconduct in the practice of engineering.

The Board found that Mr. Adams presented to the Tangipahoa Parish Planning Commission density-moisture reports for roads located in Hammond East Plantation which he knew had been prepared by an employee of Mr. Adams' firm on the forms of the certified testing laboratory firm of Barry L. Moore & Associates, Incorporated of Baton Rouge, Louisiana without the knowledge or permission of said firm, and for the purpose of obtaining final approval for acceptance of said roads by the Tangipahoa Parish Planning Commission.

Mr. Adams denied attempting to present the density-moisture reports to the Tangipahoa Parish Planning Commission as being the work of Barry L. Moore & Associates, Incorporated and stated he had made it known at a meeting of the Tangipahoa Parish Planning Commission that his technician had conducted the density-moisture tests.

Mr. Adams who is a former member of the Tangipahoa Parish Planning Commission admitted an error in judgment by utilizing the forms of Barry L. Moore & Associates, Incorporated to report density-moisture tests performed by his employee. He also admitted that such action did not conform with the Tangipahoa Parish Subdivision Regulations which require such tests to be conducted by a certified testing laboratory.

The Board at its regular meeting of March 25, 1986, voted to find Mr. Wallace L. Adams guilty of misrepresentation, deceit and misconduct regarding the presentation of the density-moisture reports utilizing the forms of Barry L. Moore & Associates, Incorporated, in violation of Louisiana Revised Statute 37:698 (A) (2). This vote of the Board was a majority with six (6) members for, none opposed, two (2) absent, and two (2) abstentions.

The Board ordered that Mr. Wallace L. Adams be given a public reprimand through publication of this disciplinary action report in the LOUISIANA ENGINEER. Mr. Adams did not appeal the Board's decision in this matter.

EXAMINATION SCHEDULE

	SPRING Apr. 11, 1987 Apr. 16, 1988	FALL Oct. 25, 1986 Oct. 31, 1987
Fundamentals of Engineering Examination (8 hrs.)	X	X
Fundamentals of Land Surveying Examination (8 hrs.)	X	X
Principles and Practices of Engineering (8 hrs.) Civil (Including Structural & Sanitary), Mechanical, Chemical, & Electrical	X	X
Agricultural, Industrial, Metallurgical, Mining & Petroleum		X
Principles and Practices of Land Surveying (4 hrs.)	X	X
Laws and Procedures of Land Surveying (4 hrs.)	X	

Apply at least *six* to *eight* months prior to an examination. Board approval *must* be given for anyone to be scheduled for an examination.
The applicant and the Board depends upon information provided by third parties in the processing of an application, therefore no assurance can be given that one will be scheduled for a specific examination.



The Spec Sheet

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

Around the consulting engineering community, professional liability and civil tort reform continues to be in the forefront. The Louisiana Legislature will be debating a package of 13 bills this session that is aimed at civil tort reform and the insurance crisis. By the time you read this, the package will have passed or died. The package has been authored by Rep. Ron Gomez, Lafayette, on behalf of a large number of professional organizations that make up the coalition known as Louisiana Citizens for Legal Common Sense.

Another large coalition formed on the national level is ATRA (American Tort Reform Association). ATRA lists in its membership the American Consulting Engineers Council, American Association of Community and Junior Colleges, American Business Conference, American Legislative Exchange Council, American Trucking Associations, National Federation of Independent Business, among many others.

ATRA publishes a newsletter called The Reformer. *The following is a sample of articles from its May, 1986 issue.*

President Endorses Tort Reform Proposals

The 180 associations and groups comprising the American Tort Reform Association (ATRA) gained a major new ally March 30 when the White House announced President Reagan will soon send Congress legislation to remedy excesses in the nation's civil justice system.

The President's proposals are expected to follow recommendations contained in a March 14 Domestic Policy Council memorandum signed by Attorney General (and DPC chairman protem) Edwin Meese. The memo, in turn, was a condensation of an 80-page report by a Tort Policy Working Group, established in October, 1985, and chaired by Assistant Attorney General Richard Willard.

The Administration announcement, coming just 39 days after a White House meeting between Mr. Meese and 150 ATRA-affiliated association executives, was hailed by tort reform advocates. ATRA President James Coyne said, "The President's decision substantiates what the American Tort Reform Association has been urging—the importance of the U.S. returning to a fault-based standard of liability."

Mr. Reagan, according to White House spokesman, is concerned by the 470 percent increase in court-awarded liability verdicts over the past six years. He cited average compensation in malpractice cases rising from $220,000 in 1975 to over $1 million in 1985. He also noted similar increases in fees awarded to plaintiff's lawyers in liability cases.

While specific legislative proposals are not expected for several weeks, it is assumed that the Administration's bill will contain most, or all, of the following March 14 recommendations of the Domestic Policy Committee.

- Return to a fault-based standard of liability (i.e., restricting liability to only those persons found to be at fault).
- Base causation findings on credible scientific and medical evidence and opinions (i.e., better qualified expert witnesses).
- Prohibit joint and several liability except where defendants have acted in concert (i.e. those who are most at fault, pay most of the penalty).
- Limit non-economic damages ("pain and suffering" as well as "punitive" damages) to fair and reasonable amounts.
- Provide periodic (instead of lump sum) payments of future economic awards.
- Make public any awards by certain collateral sources to prevent "double-dipping" in payments for the same injury.
- Establish a schedule for attorney contingency fees to decrease on a sliding scale of 25% for the first $100,000; 20% for the second $100,000; 15% for the third $100,000; and 10% for everything over $300,000.
- Encourage (but not mandate) development of alternative dispute resolution mechanisms and other procedural reforms.

In addition, the DPC also recommended enactment of:

1. federal product liability reform legislation which will assure a uniform standard of product performance equally fair to consumers and manufacturers alike.
2. contractor liability legislation that applies an equitable negligence standard to those government contractors providing services rather than products.
3. legislation addressing the specialized liability concerns of contractors requiring government indemnification in discrete and acute problem areas.

The latter recommendation, according to Mr. Meese, would be in the interests of both the federal government and its contractors. He pointed out that cost of liability insurance for such contractors is already being passed on to the government and, in some cases, unavailability of insurance is keeping experienced contractors from providing certain goods and services.

The Adminstration package may also include changes in insurance laws. According to the White House, "President Reagan has decided to make insurance reforms in order to make insurance more affordable and available." It is unclear whether this means changes in costs, coverage or rate limits.

Liability Problems Blitzing Sports

One of the lesser noticed aspects of the present liability/litigation crisis has been the impact of big court awards and skyrocketing premium costs on American sports and recreation.

Many people in the Boston area, for example, are alarmed that skating has become an "endangered respite" from their daily grind. Three rinks shut down last winter due to increased insurance premiums. The Ice Skating Institute of America, representing about 400 rink owners and operators, reports insurance rates may "kill the sport."

In Brookings, S.D., and Denver, Colo., sledding was forbidden last winter in the city parks because these, and dozens of other cities, can no longer obtain the

necessary liability insurance to protect their park boards in case of accidents.

Virtually no activity is immune. Large areas of Yellowstone Park are closed to hikers and campers as the result of a lawsuit involving a bear mauling a park visitor. Some people want to capture and transfer Yellowstone's bears to Alaska or other wilderness areas. Even the pony rides in Los Angeles' Griffith Park were threatened with closure until the city agreed to carry them on its liability policy for six weeks.

Training of thoroughbred horses at New York's Saratoga racetrack has been delayed because the track cannot obtain adequate liability insurance. The New York Racing Association, which represents both owners and tracks, has been able to generate only $6 million coverage per occurrence, a considerable drop from last year's $175 million per-occurrence coverage.

Another form of racing—the 1986 Kansas Grand Prix Auto Race—has been cancelled because organizers are unwilling to pay $160,000 for a liability policy that cost $38,000 last year. From ski-lifts to swimming pools, the story is the same—"no insurance: no fun."

Sports programs at uninsured colleges and universities are another "victim" of the liability crunch. Large court awards and insurance settlements to high school and college football players have led a number of school boards to consider dropping such programs. Last August, the Seattle School District told its coaches to cease pre-season contact drills because insurance policies had expired and new quotations from several companies were unacceptable.

Such programs suffer not only from high premium rates but from significant increases in equipment costs imposed by manufacturers to cover potential liability suits and tripled insurance premiums. Rather than drop their programs, or buy cheap equipment (thereby inviting more suits), a number of school boards have "self insured." This consists of setting aside $2-$5 million against possible suits and obtaining a "we-shall-not-sue-if-the-school-pays-all-medical-expenses" commitment from their young athletes' families. *Sports Illustrated* magazine estimates that two-thirds of the nation's school districts have adopted similar no-fault plans.

Liability Woes Create Borrowing Problems

As if they didn't have problems enough, a number of businesses concerned by recent liability verdicts, and facing unconscionable increases in insurance rates, are now finding it more difficult to obtain bank loans or favorable credit terms.

According to the *Wall Street Journal*, several banks have instructed their loan officers to check whether commercial borrowers possess liability insurance. Those that do are further asked the amount of their coverage and the size of their premiums. Companies going bare or self-insuring can expect careful scrutiny. "Any problem for our borrowers becomes our problem," says Malcolm Murray, Jr., of First Union National Bank, Charlotte, N.C.

Interviewing loan officers at several banks—including Morgan Guaranty Trust, Manufacturers' Hanover Trust, Mellon Bank, Citizens and Southern National Bank (of Atlanta)—the *Journal* found that, "despite weak loan demand and strong competition for corporate lending business, some banks (insist on) security to back up loans that previously were unsecured or (inclusion of) tougher language in loan agreements to give banks first claim on corporate assets if lawsuits are filed." [parens added]

One banker, told *The Reformer*, that stricter collateral requirements stem, in part, from the experience of Johns Manville Corp. creditors. Under that bankrupt company's settlement agreement, its lenders' reimbursement must await compensation of the more than 20,000 asbestos victims who have been designated "first priority" claimants. Most experts agree there will be little of the $2.5 billion trust fund left for JM Corp. bankers.

According to Guerry Suggs, senior vice president of the First National Bank of Springfield, Ill., "There is no question that we are looking a lot harder at the liability insurance coverage of our borrowers. In a recent consideration of a new customer loan, we got into a very heavy discussion when they told us they were self-insured." Suggs expressed concern for small- and medium-size product manufacturers, doctors, contractors and others whose financial picture has been weakened by steep liability premium in-

Continued on page 16

Baton Rouge Engineer Selected to Serve on NCEE Study Committee

Joe Mayers, P.E., president of Meyers & Associates, Inc., Baton Rouge, and a member of Consulting Engineers Council of Louisiana, has recently been selected by the National Council of Engineering Examiners to participate in an ongoing study to determine the feasibility of adopting an objectively scored Principles and Practice Examination in the discipline of Mechanical Engineering.

The Council has for several years considered various ways to improved the PE examination program. Most recently, it adopted a criterion-referenced scoring procedure and abandoned the norm-referenced cutoff scores. The next major change to the PE examination, if determined feasible, will be to convert a portion or all of the examination to an objectively graded format. The Council is presently examining four possible methods.

One of the most essential and yet difficult aspects of preparing a valid and acceptable objectively scored examination is the quality and depth of the questions on the examination. This is the task that Mayers and the study committee will address. The committee will be trained and provided with written instructions on the proper methods of preparing questions appropriate for this type examination. NCEE is committed to this study and is willing to expend considerable resources toward its objective. For this purpose NCEE has retained the services of Educational Testing Service (ETS) to guide and assist in this effort.

The Council anticipates that the study will last approximately 18 months. The timetable is to commence with an item writer training workshop on June 13, 14, followed by an item production workshop on July 11, 12, 13, 1986. Late this year and early next year the NCEE proposes to pretest a prototype examination on two separate occasions with as many as 800 people participating in the pretesting. Following analysis of the pretest, the results will be presented to the Council at the August 1987 Annual Meeting at which time the decision will be made to continue (or drop) the issue. If the decision is to go, then the schedule is to convert one-fourth of the examination to the most appropriate objectively-scored format for actual administration in April 1988.



POTPOURRI

Leta Bueto
Executive Director
Louisiana Engineering Society

CONTRIBUTION TO THE LES SCHOLARSHIP PROGRAM

The LES Scholarship Program is probably one of the most worthwhile programs conducted by the Louisiana Engineering Society. Every Louisiana high school senior interested in pursuing an engineering degree at an in-state university is eligible to compete for the scholarship. The student must register in an engineering curriculum that has been approved by the Accreditation Board of Engineering and Technology. The $1,000 scholarship is awarded annually and is financied by contributions from members of the Louisiana Engineering Society.

The Society extends a special "thank you" to a group of Louisiana persons who recently conducted a Water Supply Well Design Seminar in Alexandria, Louisiana, and from the net gains of this seminar, made a sizeable contribution to the LES Scholarship Program. Those who conducted the seminar are: Z. Bolourchi, Chief, Water Resources Section, LA DOTD Office of Public Works; Arthur E. Meyer, P.E., Meyer, Meyer, LaCroix & Hixson; Larry Laborde, Continental Engine & Pump Company; Carl Juneau, Farmers Home Administration; S. M. Cothren, P.E., S. M. Cothren & Associates; Terry D. Denmon, P.E., Terry D. Denmon & Associates; and Vernon F. Meyer, P.E., Vernon F. Meyer & Associates.

MOVING ON CIVIL JUSTICE REFORM

Louisiana Citizens for Legal Common Sense—a coalition of consumers, businesses, industrialists, professionals and local governments—has made reform of Louisiana's civil justice system its singular goal for the 1986 Regular Session of the Louisiana Legislature.

A spin-off of LABI's Liability Task Force, the group's effort is spearheaded by LABI's Attorney Stewart E. Niles, Jr., of New Orleans.

Over 160 business and trade associations, professionals and individuals are members of the group, including the Louisiana Engineering Society and the Consulting Engineers Council of Louisiana, Inc.

LABI's Liability Task Force studied the liability problem for months and subsequently developed a 16-point legislative package. As skyrocketing insurance costs shocked even average citizens and professionals, they sought to join the coalition which quickly developed into Louisiana Citizens for Legal Common Sense—the name chosen by the coalition because the liability problem is a people problem; no one is exempted from its direct and indirect effects.

The 16-point legislative package Louisiana Citizens for Legal Common Sense introduced into the 1986 Regular Session of the Louisiana Legislature is as follows: Cap on awards; Strict liability; Product liability; Comparative negligence; Collateral source; Judicial interest; Death claims; Offer of settlement of judgment and structured judgment; Frivolous suits; Attorney's fees; Uninsured motorist; Loss of consortium; Punitive damages; Hospitality liability; and Lost wage claims.

LABI has geared up a major effort to combat excessive litigation and judgments and our coalition has gotten the attention of the Louisiana Trial Lawyers Association. Their goal was to raise $2 million to defeat our efforts.

The coalition feels strongly that it needed to meet this threat with a public relations campaign. To this end, they commissioned a public opinion survey to feel the pulse of the Louisiana citizenry on our issues. The questions were based on a Gallup poll conducted in Connecticut and the survey will provide great direction to the next phases of the program.

A media budget of $179+ thousand was established for this purpose. The Louisiana Engineering Society Board of Direction voted to contribute $1,000 toward this effort. Although this is much less than the coalition requested, this is all the LES budget would permit at this time. If you can make a contribution to help defray expenses for the liability campaign, please send your contributions to the Louisiana Engineering Society, P. O. Box 2683, Baton Rouge, LA 70821, checks payable to LABI, and we will see that they are forwarded to the Louisiana Association of Business and Industry.

Remember! Any portion of this package which passes this session will benefit you, the engineer, as well as many of the other professions.

LES JEWELRY

For the first time in approximately 10 years, the LES state office has available for our members jewelry with the official LES emblem. Tie tacks and label pins are available for $7.50 each. Each member should have a lapel pin or tie tack to wear at all times to recognize his/her affiliation with the only professional society for engineers, the Louisiana Engineering Society.

Place your order today by completing the coupon below and returning to the state office.

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MECHANICAL ENGINEERING UPDATE AND P.E./M.E. REVIEW

Staying informed of changes and new technology is one of the major challenges facing practicing Mechanical Engineers today. This course reviews the following key areas: engineering economics, heat transfer, fluids and hydraulic machines, fans and ductwork, thermodynamics, power cycles, HVAC, combustion, compressible fluid flow, mechanics of materials, machine design, and kinematics of machinery. Topics covered will prepare participants to take the Professional Mechanical Engineering (P.E./M.E.) Exam, scheduled for October 25, 1986. The course textbooks are available for purchase at the UNO Bookstore. The course is coordinated by Fred Brown, Ph.D., P.E. and Associate Professor of Mechanical Engineering, and taught by a group of UNO engineering faculty. Enrollment limited to 35.

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Lakefront Campus
July 9 - Oct. 1
20 sessions
Mon./Wed. 6:00 p.m. - 9:00 p.m.
(No class Aug. 4, 6, 11, 13 and Sept. 1)
Fee: $325

ELECTRICAL ENGINEERING UPDATE AND P.E./E.E. REVIEW

Due to the many changes in the field, professional electrical engineers may find themselves wanting an update in the following areas: linear circuit analysis, measurements of signal waveforms, time and frequency response, power systems, transmission lines, electric machines, linear amplifiers, nonlinear waveshipping and switching, digital logic, control systems, illumination and engineering economic analysis. In addition to reviewing these topics, this course will prepare participants to take the Professional Electrical Engineering (P.E./E.E.) Exam, scheduled for October 25, 1986. The course textbooks are available for purchase at the UNO Bookstore. This course is coordinated by Fred Brown, Ph.D., P.E., Associate Professor of Mechanical Engineering, and taught by a group of UNO engineering faculty. Enrollment limited to 35.

University of New Orleans
July 10 - Sept. 30
20 sessions
Tue./Thur. 6:00 p.m. - 9:00 p.m.
(No class Aug. 5, 7, 12 and 14)
Fee: $325

NSPE Presents National Outstanding Engineering Achievement Awards

The National Society of Professional Engineers (NSPE) announced the 10 Outstanding Engineering Achievements of 1985 with winners ranging from Air Force radar to a major interstate tunnel. Awards for this 20th annual program were presented to project representatives during the Society's national convention in Forth Worth.

The Superconducting Dipole Magnet is a bold step in magnet design engineered to outperform conventional electromagnets. It carries a higher current, producing much higher field strengths, and, once started, can run on nothing but the power required to maintain the necessary refrigeration for a near abolute zero (-460 °F) environment.

The magnet will be the focus of future magnet research and development work for the Superconducting Super Collider (SSC), a mammoth energy accelerator proposed for the U.S. The magnet is a project of Brookhaven National Laboratory, Lawrence Berkeley Laboratory and Fermi National Accelerator Laboratory.

The Air Force's CONUS Over-the-Horizon-Backscatter (OTH-B) Radar System in Maine can detect low-flying aircraft at ranges up to 10 times greater than conventional surveillance radars can, extending the current 200-mile limit to see beyond the horizon, up to 1,800 miles. The radar reflects transmitted and received signals off the earth's ionosphere. Receive antennas, each up to one mile long, collect the reflected signals, and computers determine the target location, heading and speed.

The Tennessee-Tobigbee Waterway, running through west central Alabama and northeast Mississippi, is the largest civil works project over undertaken by the U.S. Army Corps of Engineers, requiring more excavation than the Panama Canal. Overall, the job required more than 25 million man hours of labor. Even so, it opened 20 months ahead of schedule. It is 234 miles long, nine feet deep and 300 feet wide.

The new space shuttle launch complex at Vandenberg Air Force Base in California is a scene from the 21st century. It will serve as a space port facility for future military shuttle launches and features mobile skyscrapers and towers engineered to withstand the intense temperatures and overpressures of the launch environment as well as 80-mile-per-hour winds. The launch control center can withstand an explosion on the launch mount equivalent to 322,842 pounds of TNT.

The Bath County Hydroelectric Pumped-Storage Project in Virginia is the largest installation of its kind. At nominal head the plant generates 2,100 megawatts of electric power, serving 2.5 million customers. The project consists of upper and lower reservoirs with dams, water conveyance tunnels and a powerhouse. The 460-foot-high upper reservoir dam is the highest embankment dam in the U.S. east of the Mississippi River.

North Valmy Unit 2, in Nevada's Battle Mountain area, is a 267-megawatt coal-fired plant which will provide energy for customers in three states. Because of the project's desert location, engineers developed water sources and reduced water requirements for the unit through a number of innovative designs, including the recycling of blowdown water from mechanical draft cooling towers, which normally would be evaporated as waste. This is the largest private construction project ever in northern Nevada history and was completed on time under budget.

The Fort McHenry Tunnel in Baltimore, Maryland, is an eight-lane, 1.7-mile project, including 5,400 feet of tunnel and 3,600 feet of approach roadway. It is the first of its type ever built on both horizontal and vertical curves. Workers ballasted steel tube tunnel sections with concrete and lowered them into a man-made trench on the harbor bottom. Each 32,000-pound section was accurately lowered to within one or two inches of its planned location. Then divers coupled the tubes together.

The Salzburg Hazardous Waste Landfill in Midland, Michigan, incorporates a unique liner system and special leak-detection system for long-term storage of hazardous waste. It was the first hazardous waste landfill to be sited and constructed under the stringent Michigan Hazardous Waste Management Act.

Engineers designed a series of storage "cells." The liner system includes a three-foot compacted clay liner underlying a detection sand layer, a five-foot compacted clay liner, a 100-mil. polyethylene liner and a leachate collection layer.

The B-1B Aircraft Weapon System at Wright Patterson AFB, Ohio, is a vast technological improvement on the B-52. A variable sweep "swing wing" design allows penetration at high subsonic speed improving survivability and optimizing cruise speed and operating range. The design also allows takeoffs and landings using shorter runways. The system is currently the largest Department of Defense program to be within budget and ahead of schedule.

BOARD MINUTES
Continued from page 9

11. The Shreveport Chapter will host the 1987 Annual Meeting.

12. A full-time employee position in the state office was created for the present part-time position.

13. A "Sustaining Member Class for Public Agencies" is still under discussion by the Membership Committee.

14. Jim Rhyne, NSPE PEPP Vice President, will attend the LES Annual Meeting as the official representative from NSPE.

15. The Coalition on Professional Liability will host a town meeting in the eight Louisiana metropolitan areas. A representative from each of the eight professional groups will present his profession's problems concerning liability insurance. A $300 contribution was approved to help defray expenses for the meeting.

SPEC SHEET
Continued from page 13

creases or by withdrawal of coverage. "In fact," he added, "we are increasingly disturbed over the difficulty of smaller banks obtaining liability protection for their directors and officers."

Because of just such a problem, Kerry Stowell, in March, resigned as Chairperson of the Board of Directors of the Women's National Bank of Washington, D.C. Citing the bank's inability to obtain adequate insurance for directors and owners, Stowell said, "I hate to leave, but I don't want to be hit by an expensive lawsuit."

Interestingly, banks are also exercising caution in approving loan applications from insurance companies. With 40 property and casualty companies going out of business since 1984, lenders are carefully examining insurers' financial status and loss potential. Chemical Bank, for example, has told its credit officers to consult a special bank unit if they sense any problems relative to fiscal stability of a prospective insurance company borrower.

One Suit Too Many . . .

Norbert Engler, a former State of Indiana employee, couldn't leave well enough alone. After accusing his boss (in 1978) of bending state laws to reduce inheritance taxes on several estates, he found himself facing his own lawsuit charging him with release of confidential taxpayer information. The suit was eventually dismissed, but not before Mr. Engler was demoted to a lower paying job.

Unhappy over the demotion, which he presumed was in retaliation for his blowing the whistle on his supervisor, Mr. Engler filed another suit six months later, in the U.S. District Court; this one against his boss plus two other state officials. Asking $50,000 in damages, plus reinstatement of his job, he eventually settled out of court for $980 in vacation pay and $25,000 in damages. As part of the settlement he also "agreed not to sue in any court regarding any matter arising directly or indirectly from his state patronage employment."

Despite this commitment, Mr. Engler tried again, this time in Marion Circuit Court. He alleged the money paid him in the U.S. District Court settlement should have come from the officials' personal funds and not from the state.

Hendricks Circuit Judge Jeffrey Bates disagreed. After reviewing the record, he ordered Mr. Engler to pay the state $82,577 for filing "a frivolous . . . and meritless" lawsuit.

In ruling on the case, Judge Bates called the fine an example of what elected officials and taxpayers can do to "discourage the gushing avalanche of baseless, frivolous, vindictive and meritless lawsuits against taxpayers."

Tort Reform Report Available

Persons or groups interested in reviewing a detailed summary of the causes, extent and federal policy implications of the current crisis in insurance availability and affordability are encouraged to obtain a copy of the February, 1986, Tort Policy Working Group Report.

The 80-page report is jam-packed with facts and data describing the nation's current liability problems, plus suggestions for their solution. Copies are $3.25 each from the Government Printing Office, Washington, D.C. 20401. Ask for: GPO publication 1986-491-510:40094 entitled "Report of the Tort Policy Working Group."

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State News

Alabama—Despite a massive tort reform rally which brought nearly 2,000 Alabamians to the steps of the Capitol on April 3, state civil justice reform legislation continues to languish in the Senate Judiciary Committee. Six bills passed by the House on March 26 cover: periodic payments of awards, elimination of the collateral source rule, restrictions on contingency fees, penalties for "frivolous" suits, and limitation (to $250,000) of punitive awards. Chances of further legislative action prior to adjournment appear slim.

Alaska—Organizers of a planned April public demonstration in support of tort reform legislation found themselves in a "Catch 22" situation last month. The Citizens Coalition for Tort Reform was forced to cancel its Anchorage rally—including hot-air balloons, an elephant, tractor-trailer rigs and floats—because it was unable to obtain liability insurance to cover anything that might go awry. Said the chairman, "It's frustrating to be blocked by the very issue we're fighting to correct."

California—The California Trial Lawyers Association is seeking member contributions of $100,000 to $300,000 for use in fighting Proposition 51—a ballot initiative to apply certain limits on the use of joint and several liability in that State. Placed on the June 3 ballot by the Association for California Tort Reform (ACTR), the issue is referred to by the press as "the deep-pocket initiative." It reportedly has widespread support.

Maryland—Just minutes before an April 7 midnight deadline, the Maryland General Assembly approved a $350,000 limit on "pain and suffering" awards in personal-injury cases. Also passed was a measure to make lawsuits against doctors more difficult to file by requiring that evidence be presented in advance of a suit. To ascertain the impact of their legislation, the lawmakers enacted a provision requiring insurance companies to report certain information to next year's assembly.

Minnesota—"Trial lawyers here deserve a raise," observed a distressed Shirley Brantingham, counsel to the Minnesota Civil Justice Coalition. "They took our tort reform bill and disembowled it!" Ms. Brantingham's ire was the result of an insurance/tort reform bill that was almost completely rewritten by a House/Senate Conference Committee operating in closed session during the final days of the legislature. "Copies of the revised bill were not made available to the press or the public until minutes before the measure went to the House. We were doubly disappointed," said Ms. Brantingham, "when the Governor ignored our request that he veto our own bill."

Montana—The Montana Liability Coalition (MLC), unhappy over the legislature's failure during its March special session to obtain the two-thirds vote necessary to put tort reform on the state's primary ballot, has announced plans to undertake a signature campaign to petition such a referendum. The Montana League of Cities and Towns had proposed limiting liability judgments against public entities like city councils, school boards and park districts. At least 39,000 signatures are required to take the issue to the voters.

Ohio—An interesting dichotomy has developed in the Ohio legislature where the Republican-majority Senate has introduced a package of 11 tort reform initiatives (S.B. 329-339) recommended by the Ohio Association of Civil Trial Attorneys and approximately 40 other groups. Meanwhile, the Democrat-controlled House is considering 7 entirely different bills (H.B. 872-878), by House Speaker Vern Riffe, to regulate the insurance industry. So far the Senate has approved three, and killed one, of its bills. House action is pending.

Virginia—Legislation to limit punitive damages to the greater of $150,000 or three times compensatory awards; to restrict collateral source awards; to let judges determine the amount of attorney's fees attributable to recovery of punitive damages, and to require payment of punitive damages into the state literary fund, failed to achieve approval in the Virginia Assembly's Justice Committee. The Virginia Coalition on Tort Reform is already laying plans for the 1987 General Assembly.

Washington—In one of the most emotional legislative battles in the nation, the Washington Senate, by a vote of 31 to 16, rewrote that state's liability laws and sent it to Gov. Booth Gardner who signed it on April 4. The measure establishes a formula, ranging from a high of $573,000 to a low of $117,000, for non-economic damages awards, such as those for "pain and suffering." Other provisions apportion damages in accord with degree of responsibility for a loss, require medical malpractice suits involving children to be brought within three years of the negligent act, and provides for periodic payment of damages awards.

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Jeffery Stroy, No Practice Division Listed; Jon J. Haddad, Construction; Nazih H. Hage, No Practice Division Listed.

NEW ORLEANS

Mark A. Biggers, P.E., Private Practice; Denis C. Roux, P.E., Private Practice; Keshav Budhia, No Practice Division Listed; Nikhil K. Sarkar, Education; George B. Peneguy, Jr., E.I.T, Private Practice; Mark F. Smith, E.I.T., Industry; John Fulton, No Practice Division Listed; Jane Gutierrez, No Practice Divison Listed; Randy Cootes, No Practice Division Listed; Soheila N. Holley, No Practice Division Listed; Douglas A. Coggeshall, No Practice Division Listed; Claren J. Thomas, P.E., Industry; Billy W. Evans, Industry.

SHREVEPORT

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Chapman, Jr., Melvin D.
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Estrada, Roberto
St. Rose, LA
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Knox, Robert C.
Lake Charles, LA
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Mathis, John I.
Wylie, TX
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Sulphur, LA
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Lacy, Jr., Olin M.
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Nord, Robert L.
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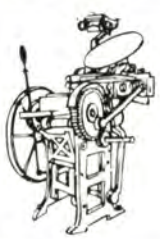
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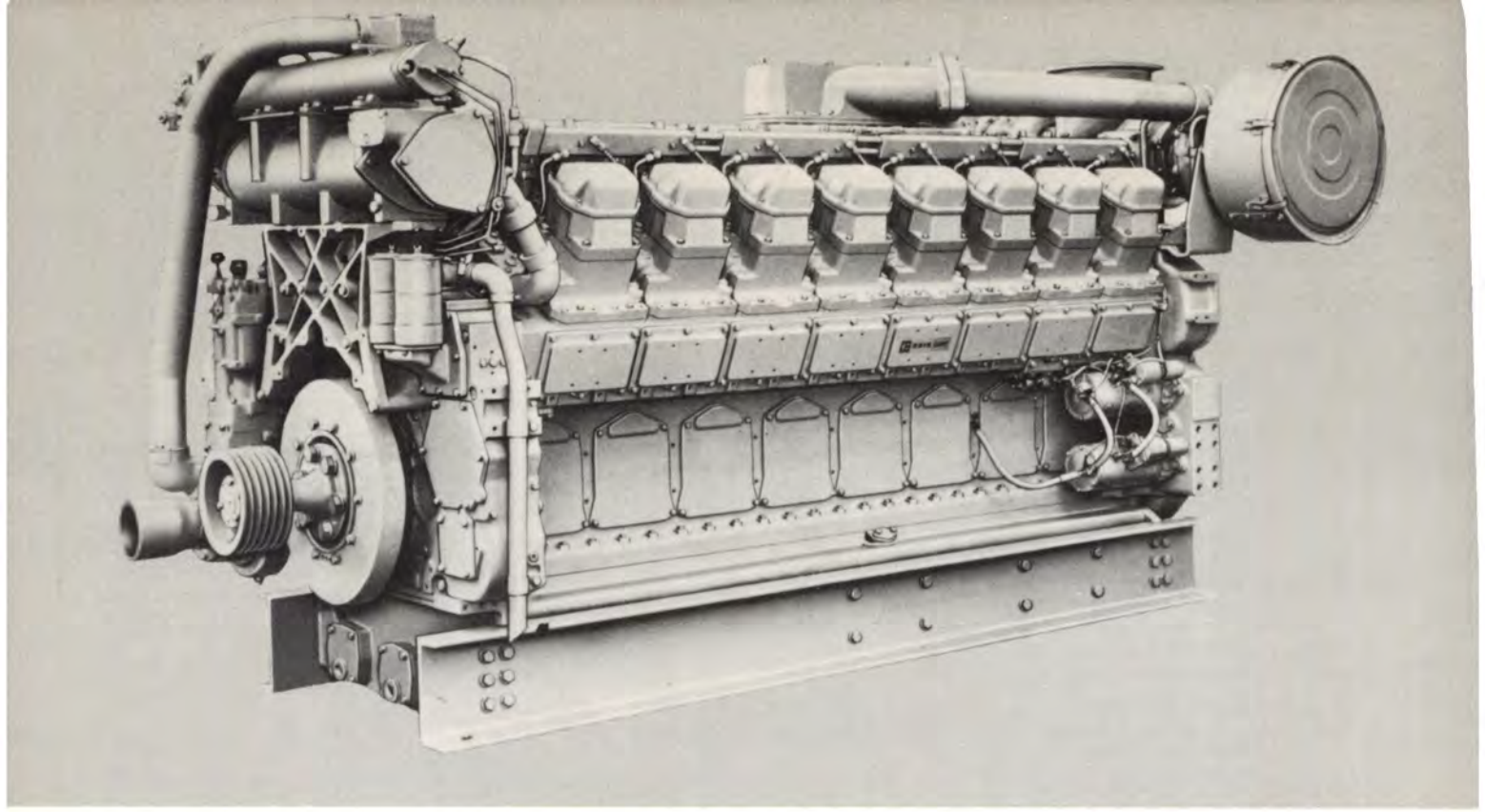

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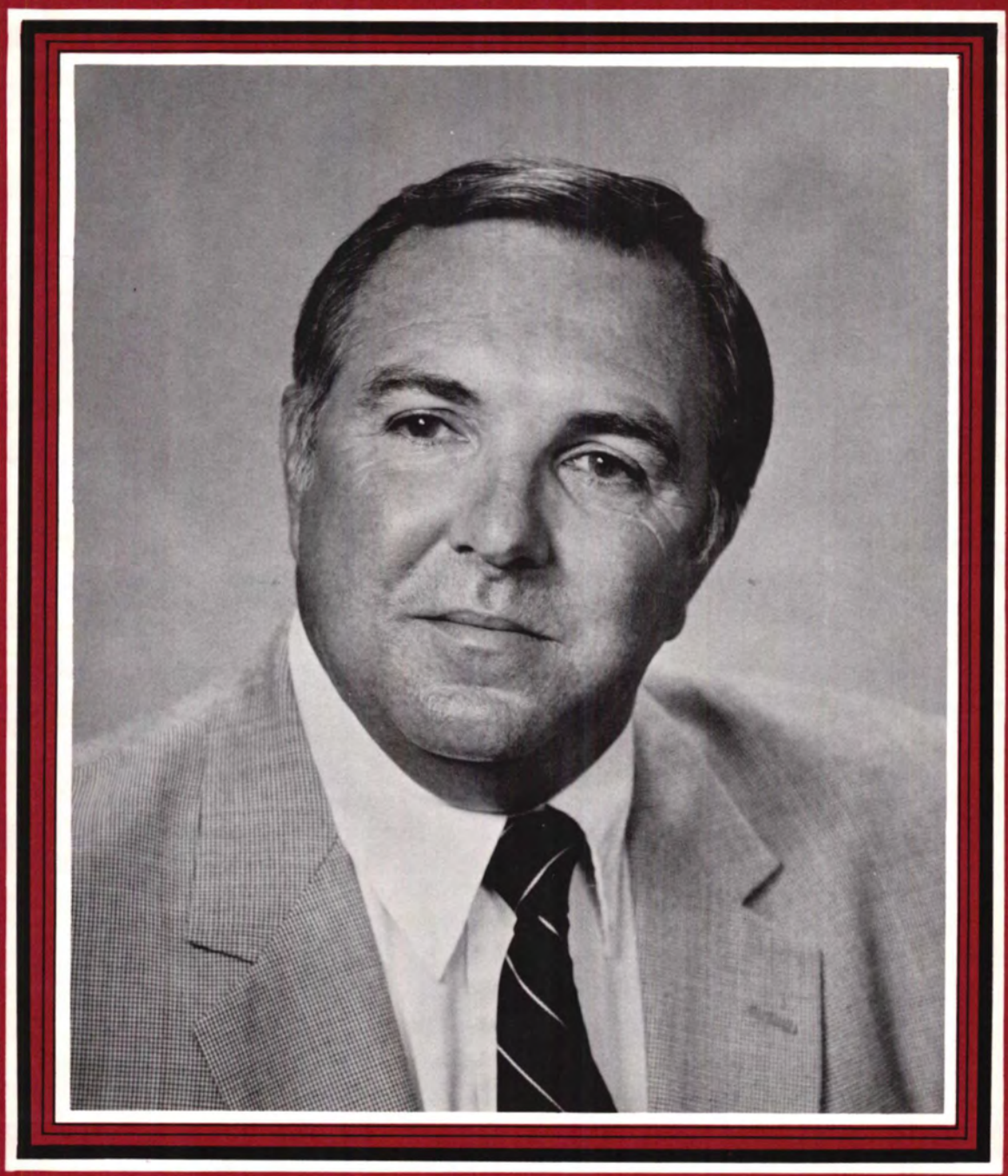

Robert P. Blanche, P.E.

Louisiana Engineering Society
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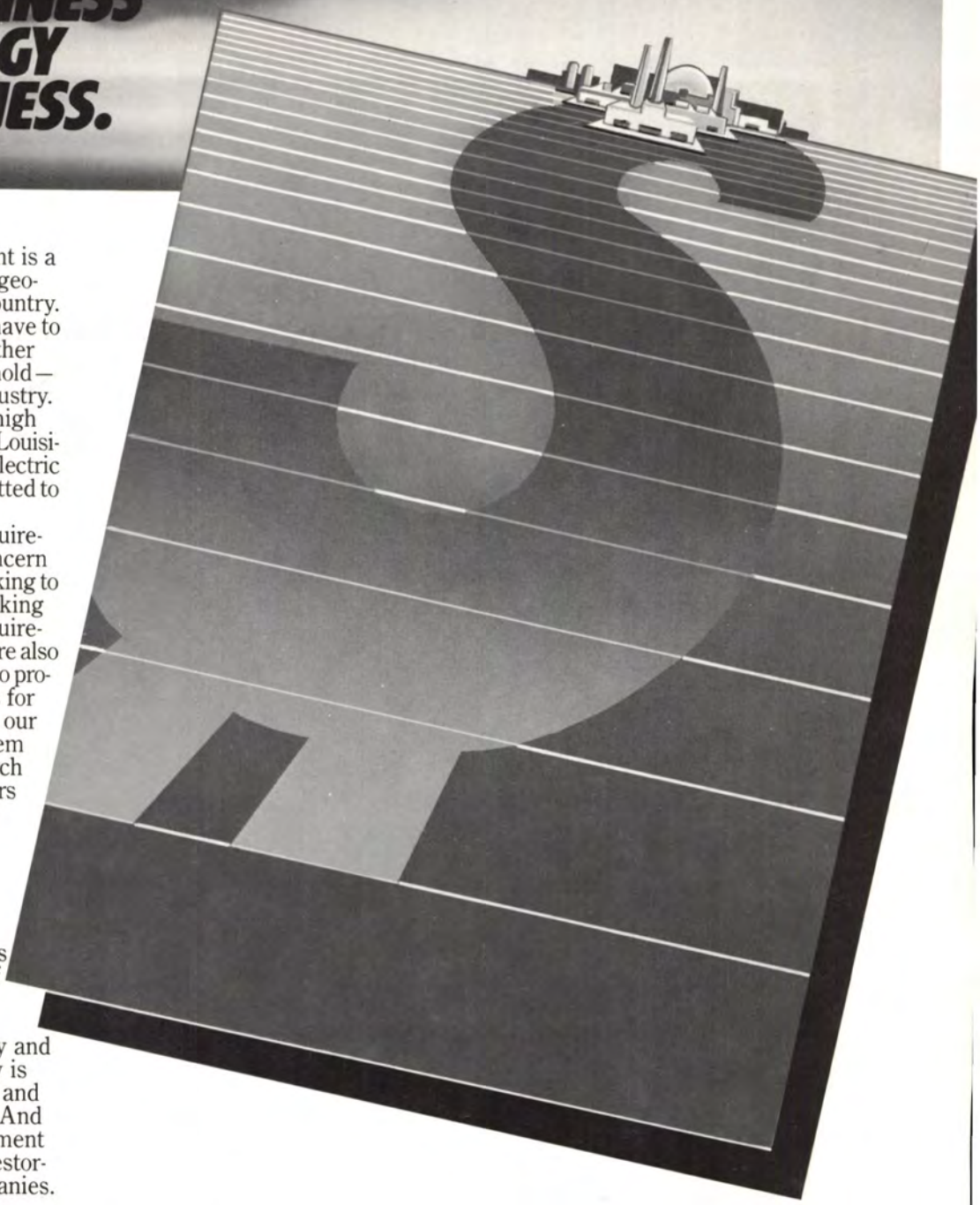

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ABOUT THE COVER

Robert P. Blanche, P.E. is the 1986-1987 President of the Louisiana Engineering Society.

LOUISIANA ENGINEER

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An Organization of Engineers For The Professional Needs of Engineers



Robert P. Blanche, P.E.
LES President

As I begin as President of the Society for the upcoming year, I do so with eagerness and an anticipation of leading an active and productive Board of Direction in pursuing the programs and plans recommended and desired by you, the membership.

I have always had strong feelings that the Board's primary responsibility is to be responsive to the professional needs of our members. What I am saying is that you, the members, must communicate to your Chapter and State officers the programs and undertakings you feel are needed.

Who makes up the Louisiana Engineering Society and how is it structured to develop and respond to your professional needs? The Society is made up of nine chapters, which geographically cover the entire state, as well as a nonresident group of members. We are 3,100 members strong distributed throughout the state as follows: the Alexandria Chapter has 197 members; the Baton Rouge Chapter has 580 members; the Bayou Chapter has 129 members; the Lafayette Chapter has 356 members; the Lake Charles Chapter has 112 members; the Monroe Chapter has 144 members; the New Orleans Chapter has 1,107 members; the North Lake Chapter has 83 members; the Shreveport Chapter has 215 members; and there are 267 nonresident members.

Our membership is also organized into five practice divisions which allow engineers within common practice areas and interest to deal with problems that are unique to their individual careers. The practice division breakdown includes 325 engineers in construction; 161 engineers in education; 256 engineers in government; 1,189 engineers in industry and 1,166 engineers in private practice. The chapter presidents and practice division chairmen, along with the State officers and directors make up your State Board of Direction.

The Society as a whole can serve the professional needs of our engineers by encouraging and supporting active participation from all members. If you, the individual engineer, have a worthwhile program, identify a need for action, or have a problem which exists because of your position as an engineer, the Louisiana Engineering Society stands ready and committed to assist in dealing with those situations.

Our committee structure was established to support the areas of importance to the professional development of all our engineers. Each committee has an area of responsibility which should allow the Board to better meet the needs of our profession. The committee structure for the statewide Society is complemented by the same structure at the chapter level to assure that we have local response on matters of importance.

The Engineering Education Committee, chaired by Kerry LaBauve, P.E., endeavors to encourage teaching and promulgation of professional concepts in the engineering schools of Louisiana and seeks to assist in the continued improvement in the education of engineers and engineering technicians.

The Engineering Education Committee has a Career Guidance Subcommittee, chaired by Raul Espinsoa, P.E., that works within the secondary education community to foster and encourage a better understanding of what engineering is and what is involved in a career as an engineer.

The Ethics and Professional Conduct Committee, chaired by Glynn Gautreau, P.E., is responsible for evaluating and investigating reported incidents of a breach of the Code of Ethics by any member of our Society. They then report their findings to the Board of Direction for appropriate action, all as defined by our Constitution.

The Legislative Committee, chaired by Jack Laws, P.E., deals with matters pertaining to federal, state, and local laws affecting professional engineers or engineering.

The Young Engineers Committee is chaired by Andy Craig, P.E., and is charged with the development and implementation of programs designed to introduce young practicing engineers

Continued on page 17

1986 LES Annual Meeting
New Orleans, LA



Outgoing President Vincent Forte (left) presents the gavel to incoming President Robert Blanche (right) at the Installation Banquet.



Lt. Governor Bobby Freeman addressed the guests at the banquet.



Mayor Sidney Barthelemy was the keynote speaker for the Installation Banquet on Friday night.



LES Executive Director Leta Bueto presents to outgoing president Vincent Forte the Engineers Creed in counted cross stitch, a gift from the staff in the LES state office.



Convention Chairman Robert Fullerton (left) and his wife, Elizabeth, visit with LES members Robert Brossette (center) and Charles Eustis (right) before the Installation Banquet.



The officers of the Louisiana Engineering Society are installed by James Meyer, P.E., of Alexandria, LA.

The Annual Meeting of the Louisiana Engineering Society was held June 18-21, 1986, at the Royal Orleans Hotel in New Orleans, LA. There were approximately 150 members and spouses present for this meeting. Our heartfelt thanks goes to the New Orleans Chapter and the Ladies Auxiliary for working so diligently to make us all feel so welcome. We also extend many thanks to Robert Fullerton of the New Orleans Chapter. Bob was the Convention Chairman and did an excellent job of coordinating the meetings and functions.

In addition to the Hospitality Room being open with refreshments, the ladies were treated to a tour of the French Quarter, a visit to an historic home which has been restored, and lunch at The Gumbo Shop, a favorite "old time" restaurant of New Orleans. The ladies also received a cooking demonstration, plus a full meal from a cooking school located in the Jax Brewery.

One of the highlights of the meeting was a riverboat dinner cruise aboard the Steamer Natchez. Guest speaker for the Installation Banquet on Friday night was The Honorable Sidney Barthelemy, Mayor of the City of New Orleans. Also a guest at the banquet was Lt. Governor Bobby Freeman. Robert P. Blanche was installed as President for 1986-87.

Plans are already underway for the LES Spring Meeting, to be hosted by the Monroe Chapter. The dates for this meeting are March 18-21, 1987, so be sure to mark your calendars now. The meeting will be held at the Holidome in Monroe, LA. Look for more details on this meeting in the October issue of the LOUISIANA ENGINEER.

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Hurricane Juan
It Could Have Been Worse

Although Hurricane Juan was a relatively minor storm as far as wind velocity was concerned, it was probably the most destructive storm Louisiana has experienced in terms of the amount of damage inflicted. Early estimates run as high as $1 billion although the maximum wind was only around 85 miles per hour. In 1965, Betsy had 145 mph winds and did approximately $120 million dollars of destruction in Louisiana. Camille, in 1969, with 180 mph winds did some $322 million of damage statewide. The reason for this apparent disparity is that most hurricane damage is caused by wind-driven flood waters rather than directly by the wind itself.

Juan, approaching slowly with its relatively mild but slowly increasing south and southeast winds, brought water into southeast Louisiana up to levels that had never been reached before. Great quantities of water from the Gulf of Mexico surged up into the bayous, bays, lakes, marshes, and other lowlands along our lower coast. Much of this territory is very little above sea level and, hence, quite susceptible to flooding.

To compound the problem, most of south Louisiana, generally that portion south of highway U.S. 190, is slowly sinking due to compression of the deep-lying alluvium deposited over the years by the Mississippi River when it was forming its extensive delta. This settling is further aggravated by the shrinking of the upper layer of soil as its high percentage of humus dries out or decays. Predictions of a long-range increase in the world's sea level would further complicate our problems.

After every severe flooding occurrence, the statement is frequently heard that an inundated area or a building or other property had never flooded before. Unfortunately, this unpleasant phenomenon is going to continue to occur in the future. Actually, long-range planning to secure our lowlands and the structures erected thereon, and to keep them from being inundated has not been approached in a comprehensive manner. Such flooding is not limited to lowlands. This fall, water found its way into buildings in such high elevation areas as the inlands of Virginia, North Carolina, and other eastern states. Last year, land nearly one-mile-high in Colorado went under water and Las Vegas, Nevada has been a victim of flooding.

Our approach to the problem has been as piecemeal as was our fragmented solutions to the flooding of the environs of the lower Mississippi River system prior to the adoption of the Jadwin Plan in the form of the Flood Control Act of 1928, subsequent to the generally disastrous and widespread flood of 1927. The broad view of this plan encompassed a well-designed levee system supplemented by controlled outlets or spillways, river cutoffs, reservoirs, and carefully placed locks. Similar approaches with varying solutions were taken in the Netherlands with a coordinated system of dikes and pumps, and on London's Thames with its massive gate to control flood surges.

Since high, dry land is ever increasingly scarce in south Louisiana, it is necessary to learn to live with the omnipresent danger of flooding. The most obvious approach is a well-designed, well-coordinated system of levees, floodwalls and floodgates. An elongated mound of any readily available earth piled on an unprepared bed of native soil does not have a good chance of surviving a head of water, especially if the water is in violent wind-driven motion. And there is little point in having even a good strong levee if the one in the neighboring parish or community is going to fail and let water into your area. The futility of last-minute sandbagging has been demonstrated many times. This is especially true if the bags are hastily filled and placed by uninstructed volunteers supervised, perhaps, by unknowledgable foremen.

Assuming that a general area does have a continuous, coordinated levee system, it is obvious that the levee must be well designed and built on a stable foundation from which the top layer of humus, shell, sand, gravel, or other porous material has been completely removed. It may be necessary to dig a deeper furrow or keyway filled with the same high grade fill, hauled in if necessary, to be used for the levee. Not only adequate height but proper cross section (crown width and slope grades) must be designed by competent engineers, not by land developers.

If planned and executed far enough in advance, and properly designed and policed, sanitary landfill offers an opportunity to convert lowland into a useable territory. In such cases, special measures should be adopted in designing structures that are to occupy such reclaimed



land. Factors to be considered are the nature of the fill, settlement (possibly unequal), gas formation, and pollution of runoff or seepage water.

Unless a property is located on or near the crest of a high ridge, there is still the possibility of flooding. The cost of placing several feet of good fill to create a terrace, or of raising the ground floor level a reasonable height above the natural earth surface may well prove to be a good investment. The developer or builder won't be around when the flood comes! The damage to a building and its contents by one flood would quickly wipe out any savings that might have been achieved by skimpy design.

Earlier generations in New Orleans and surrounding areas realized the value of having their homes well off the ground and were thankful when they saw the water lapping at their door steps instead of entering their rooms. Side benefits of this type of construction are added security and privacy that the higher windows afford and reduced humidity problems thanks to the raised floors. How can we criticize people in earthquake-prone areas for building or rebuilding masonry or adobe structures when we erect buildings with ground floors level with, or slightly above, the grade of the site?

Although most hurricane flooding is caused by wind-driven water, there still remains the possibility of the accumulation of rainwater beyond the capacity of the local drainage system. As areas develop, more streets are paved, more buildings are erected, and there is less ground absorption of rainwater. Consequently, there is more and quicker runoff and more property to be flood damaged. Few surface ditches or underground drains are designed to handle the runoff of the ten inches or more of rainfall that commonly accompanies tropical storms. Other than over designing, there is little that communities can do in the creation of a business area or residential subdivision. Here a proper approach is to provide elevation to the buildings by filling the land before construction or by erecting the structure well above the surrounding surface.

The best drainage systems are doomed to failure if they are not properly maintained. An accumulation of dirt or debris in ditches or at intakes will find its way into the underground drain pipes where it will solidify and impede and possibly stop the discharge. Of course, the answer here is constant maintenance, scraping of ditches, cleaning of catch basins, and perhaps even rodding or boring of previously neglected drain lines.

Briefly, the prevention of hurricane-connected flooding is a problem that must be solved years in advance of the occurrence. It can be handled by cooperation between the various governmental agencies such as parish councils, local levee boards, the U.S. Army Corps of Engineers, and the civilian engineering profession. Until such long-range planning and even longer range follow-through occurs, it behooves the thoughtful owner or considerate builder to provide height to all floor levels.



An example of building well above ground level to avoid or eliminate flood waters in New Orleans.



LES Board of Direction May Minutes

The May meeting of the Board of Direction was hosted by the Shreveport Chapter. There were 15 board members, two guests, and the LES staff present.

1. The March financial statement was approved subject to the annual audit.

2. The response to the printed invitations which the state office sends to all new registrants has been very favorable.

3. The hazardous waste asbestos liability legislation proposed by LES has been drafted into final form as Senate Bill #216. The worker's compensation bill has been prepared for introduction as Senate Bill #215.

4. The National MATHCOUNTS Competition is scheduled for May, 17, in Washington D.C. The MATHCOUNTS Program will end the year with a reserve of approximately $5,000 for next year.

5. The Board accepted a recommendation from the Constitution & Bylaws Committee to revise the wording on Bylaw 8 (f) to read that the Board of Direction may annually assign, from the funds of the Society, to each established local Chapter, a sum not to exceed $5.00 for each Member, Surveyor Member, Affiliate Member and Associate Member over 30 years of age; $3.00 for each Associate Member under 30 years of age; and $2.00 for each Student Chapter Member, to be remitted to the local Chapter for the purpose of aiding the Student Chapter's financial requirements. The local Chapter shall not receive rebates from student membership dues if the requirements of Bylaw 9 (j) are not met. There are no rebates made for Privileged, Honorary, and Life Members.

6. The Honors & Awards Committee submitted its recommendations to the Board. The Board adopted the following recommendations: (1) No absentee ballots shall be allowed; (2) A member of the Honors & Awards Committee who has been nominated for an award shall excuse himself prior to discussion, debate and voting for that award and any issue pertaining thereto; (3) Nominees for LES awards shall be Registered Professional Engineers in any state, except that the minimum requirement for the F. Hugh Coughlin Young Engineers Award shall be an EIT; (4) The Honors & Awards Committee shall recommend to the Board of Direction the names of nominees for the LES Awards not less than 90 days prior to the Annual Awards Meeting; (5) Delete from the first paragraph of Appendix 3 of the Orientation Handbook the last statement "No alternate or substitute members are authorized to serve on the Honors & Awards Committee" and substitute the statement "In the event that neither a Chapter's President, Past President nor both are able to attend the Honors & Awards Committee meeting(s), a Chapter may be represented by one or two of that Chapter's Past President(s)."; (6) Balloting for nominations shall be in secret until one nominee achieves equal to or more than three less than the total votes cast, at which time a voice vote seeking unanimity of the nominee shall be taken.

Fall 1986 Engineering Management Courses

FACULTY

The courses will be taught by regular faculty members of the LSU College of Business Administration and Engineering or by able, qualified professors from other universities in the state.

CERTIFICATE

Upon completion of four acceptable courses and a certificate application form, the participant will be awarded a Certificate in Engineering Management by the Division of Continuing Education. An Advanced Certificate will be awarded to students who take a total of six courses.

COST

The fee per participant is $300 for each course and includes the cost of textbooks.

REGISTRATION

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

Classes will be organized Wed., Aug. 13, 1986 in Room 503, LSU Medical Center, New Orleans - 7:30 PM and on Thurs., Aug. 14, 1986 in Room 3136 CEBA Bldg., LSU, Baton Rouge - 7:30 PM.

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

AVAILABLE COURSES

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

Please complete the following form and return it to the address below if you are interested in the program. (Classes will begin during the week of Aug. 25, 1986.

Name _____

Address _____ Phone _____

City & State _____ Zip _____

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

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

COURSES OFFERED

( ) Management
( ) Project Management
( ) Engineering Economy
( ) Finance
( ) Automation
( ) Statistics
( ) Human Relations
( ) Cost Estimating
( ) Microcomputers

LOCATIONS

( ) Baton Rouge
( ) New Orleans
( ) Monroe
( ) Alexandria
( ) Shreveport

I cannot attend on the following nights:
M____T____W____Th____



POTPOURRI

Leta Bueto
Executive Director
Louisiana Engineering Society

1986-87 PLANNING CONFERENCE

The 1986-87 Planning Conference for the LES committee members will be held September 12, 1986, at the Sheraton Hotel in Alexandria, LA. This session is to familiarize members of the various committees with their duties and to enable them to establish goals for the year. Their is no charge for this conference, and a program outlining meetings and times will be sent to each committee member. The conference is also open to anyone not presently a committee member, but who is interested in learning more about the workings of the Society.

If you are not a committee member, but would like to attend, please call the LES State Office at (504) 344-4318 for more information. We urge everyone to attend this very important planning conference. The Society needs the help and input of every member in order to be able to effectively serve the engineering profession. Please give us your support.

WHY JOIN LES?

1. LES is a **dedicated** Society of professional engineers which has been shaping the destiny of the engineering profession in Louisiana since its formation in 1898.

2. LES is foremost a **participatory** society in which the greatest benefits are derived by its members who devote a portion of their time and energy to pursuing its initiatives.

3. LES is an **active** society. Its members are counted among the concerned professional engineers in Louisiana supporting its regularly undertaken initiatives which benefit your profession. Membership dues directly support the Society's legislative interests, public relations efforts, and other programs dedicated to improving the quality of practice and education in your chosen profession. LES enhances your resumé.

4. LES is an **influential** society. By exercising your powers of communication and persuasion within the Society, you can truly affect the course of the engineering profession in your community, Louisiana, the United States and the world, which you could not otherwise expect to accomplish individually.

5. LES is a **social** society. An unavoidable side effect of participation in LES is the formation of new friendships and sharing in new experiences with many engineers you may otherwise never meet. You can also attain a greater understanding of your profession through the opportunity to compare your perceptions and concerns about your profession with those of your peers.

SENIOR MEMBERS OF THE NEW ORLEANS CHAPTER MEET

Senior members of the New Orleans Chapter have been meeting very informally every month for several years. This is such a satisfactory gathering that we urge other chapters or cities in Louisiana to establish similar group meetings. There are no dues, no rules, and every member who considers himself as meeting the "senior" status is welcome. It is a pleasant and convenient way to keep up with persons with whom you have been associated.

TULANE ENGINEERING TO RECEIVE $500,000 TRUST

Tulane University's School of Engineering has been selected by a 1928 graduate, Newton C. Ebaugh of Gainesville, Fla., to be the principal beneficiary of a charitable trust currently valued at $519,000.

Ebaugh, a director of Marineland Inc., for 43 years, is the former president of Ebaugh & Goethe Inc., consulting engineers. He headed the mechanical engineering department at the University of Florida from 1935-50, becoming chair-

Continued on page 18

A BADGE OF DISTINCTION FOR THE LES MEMBER

A lecture in pride of profession, you do not need. Your pride in and concern for our profession is well demonstrated not only in your daily activities and your registration as a Professional Engineer or certification as an Engineer in Training, but by the extra mile you are willing to go to belong to your professional societies. And more particularly, by the activities in which you may participate from time to time as part of your commitment.

This is your opportunity to add an extra inch to that extra mile. Purchase a lapel badge with the Society's emblem and wear it on your lapel. You will be pleased with this open but understated expression of your pride in yourself, your organization and your profession to all with whom you come in contact.



LES JEWELRY ORDER

Please send ☐ Lapel Pin ($7.50 each) _____
☐ Tie Tack ($7.50 each) _____

Please send items marked. I enclosed check or money order in the amount of $ _____ .

Name _____

Address _____

City _____ State _____ Zip _____

Mail to LES, P.O. Box 2683, Baton Rouge, LA 70821



NÔTRE MÉTI ∃R

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

NCEE Introduces Slide Show On Registration

In support of National Engineers Week, the National Council of Engineering Examiners (NCEE) introduced a speakers kit and slide presentation to stress the importance of Professional Engineering (P.E.) registration.

The materials were developed as part of a nationwide educational effort which targets engineering students, faculty, employers, professionals and the general public. The speakers kit and slides are available to address student and professional audiences on the purpose and the importance of registration in protecting the public health, safety and welfare. "Through member use of these tools," said Ed Pine, NCEE president, "we hope to raise the awareness of the entire engineering community."

"The speakers kit and educational slide show are each excellent resources," added Pine. "They provide clear and concise information on the registration process. Those interested in speakers to address the subject of registration should contact their state board of engineering examiners."

"We must take the time to inform prospective engineers about the registration process," said Pine. "It is important to their careers, to our profession and to the public. This educational effort affords us the opportunity to achieve this with one clear voice."

P.E. registration normally begins with the passing of the Fundamentals of Engineering Exam which may be taken in the senior year of college. Registration is then granted on the basis of four years of qualifying experience followed by passing the Principles and Practice of Engineering Exam.

"Registration establishes a means of identification for those engineers who have attained the standards of ethical, academic and work-related experience necessary to responsibly practice within the engineering field," said Pine. "Anyone who portrays himself as an 'engineer' or who uses the word 'engineer' to identify his business activity and is not registered, may be in violation of state law," he added.

The NCEE is the national organization of state licensing boards of Professional Engineers and Land Surveyors. These state boards define and maintain the standards of the profession according to state statutes. The boards regulate the practice of engineering and land surveying as it relates to the welfare of the public in safeguarding life, health and property.

From the March 1986 issue of the ***Registration Bulletin.***

Proposed Rule Changes

The following was published in the July 20, 1986 issue of the ***Louisiana Register:***

Notice of Intent

In accordance with the Louisianu Revised Statutes 49:951, 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 19-3:

9.8 [Changes are italicized]
Re-Examination

9.8.1 A person who fails an examination for the first time is eligible to apply to retake the examination.

9.8.2 A person who has failed an examination on two occasions, regardless of the elapsed time between exams, *is eligible to apply in order to retake the examination one year after his last failure.* Upon application he is expected to present evidence that he has made a serious effort to increase his knowledge of the subject matter covered by the examination.

9.8.3 A person who has failed an examination three times or more than three times *is eligible to apply in order to retake the examination two years after his last failure.* Upon application he must present evidence that he has made a serious effort to increase his knowledge of the subject matter covered by the examination. Before the applicant is given approval to retake the examination he must appear before the Board or a committee of the Board for an interview and oral examination.

10.4.2 [Adds the following sentence to end of paragraph to define the word "reports"]

EXAMINATION SCHEDULE

	SPRING Apr. 11, 1987 Apr. 16, 1988	FALL Oct. 25, 1986 Oct. 31, 1987
Fundamentals of Engineering Examination (8 hrs.)	X	X
Fundamentals of Land Surveying Examination (8 hrs.)	X	X
Principles and Practices of Engineering (8 hrs.) Civil (Including Structural & Sanitary), Mechanical, Chemical, & Electrical	X	X
Agricultural, Industrial, Metallurgical, Mining & Petroleum		X
Principles and Practices of Land Surveying (4 hrs.)	X	X
Laws and Procedures of Land Surveying (4 hrs.)	X	

Apply at least *six* to *eight* months prior to an examination. Board approval *must* be given for anyone to be scheduled for an examination.

The applicant and the Board depends upon information provided by third parties in the processing of an application, therefore no assurance can be given that one will be scheduled for a specific examination.

Reports are defined as to include, but not limited to geotechnical investigations, material testing and related reports.

Interested persons may 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 September 12, 1986. The Board proposes to consider and take action on the adoption of these rules at a meeting in its office at 11:00 a.m. on September 23, 1986.

By order of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors.

Paul L. Landry, P.E.
Executive Secretary

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:

1986	1987	
Sept. 23	Jan. 27	July 28
Nov. 18	Mar. 24	Sept 22
	June 2	Nov. 17

Registration Board 1986 Roster

Available upon Request
One Per Person

As long as the supply lasts-

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

1055 St. Charles Ave.
Suite 415
New Orleans, LA. 70130
Tel. (504) 568-8450

Statistical Summary of Complaints/Investigations - 1985

The calendar year of 1985 was one of peaks and valleys regarding enforcement actions. The overall complaint/investigative file openings were down from the calendar year of 1984. Such a downward trend was expected as the file openings for 1984 included in excess of fifty complaints/investigations which were pending upon the arrival of the Staff Investigator in December '83. For accountability purposes, these files were included in 1984 statistics.

Of the complaints handled during the year, there was a decrease in complaints from registrants and the general public along with a corresponding increase in Board initiated inquiries. Such a decrease may indicate that either fewer persons are violating the statutes and Board rules, or it may indicate that for whatever reasons, registrants and the general public are failing to report some violative situations. Registrants are reminded that the continued success of the enforcement program depends in part on the amount of support given it by each registrant of the Board. The statement that a chain is only as strong as its weakest link is as appropriate today as it was when first spoken.

Not included in these numbers is the "Public Relation" activity of the Board Office Staff and Board Members. If we are successful in "getting the information out" to the right people, we're going to reduce our enforcement problems. Numerous presentations were made to members of the profession, to students at the universities, and to the general public. The Board Members, the Board Investigator, and the Executive Secretary consider it to be most important that we do maintain visibility — especially with the **Professionals.** We may not all agree on the issues under discussion but I believe we can agree that communications must be maintained by all if the public is to be served.

The enforcement problems of the Board are your problems. You can help by simply keeping yourself informed of changes that take place, question your associates when you see something you don't understand regarding the activities of professionals, and playing the game fairly. The Engineering and Surveying Professionals of Louisiana are taking care of Nôtre Métier (Our Profession) — we have an incentive — if we don't someone **else** will.

The following is a statistical summary of complaints/investigations for calendar year 1985:

Complaint files pending from 1984	49
Complaint files opened in 1985	64
Complaint files disposed of in 1985	87
Complaint files carried over into 1986	26
Investigations carried over from 1984	04
Investigations initiated from Complaints	09
Investigations disposed of in 1985	07
Investigations carried over into 1986	02
Total case load for 1985	126
Board Hearings held during 1985	04
Investigations/complaints resolved with cease and desist affidavits	03
Investigations/complaints referred to District Attorney	01
Number of Board Disciplinary Actions	04
New Firms registered as result of Investigative Action	27



The Spec Sheet

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

CEC/L HONORS BATON ROUGE ENGINEER

Robert W. McKenzie, P.E., a Baton Rouge consulting engineer, was recently honored by the Consulting Engineers Council of Louisiana, Inc. (CEC/L) when he was selected to receive the Council's most prestigious award for 1986, the A.E. Wilder, Jr. Award.

The A.E. Wilder, Jr. Award was established in 1976 in memory of the organization's previous Executive Director who passed away in January of that year. It is presented to a CEC/L member (not serving on the Board of Governors) who has made continued outstanding contributions to CEC/L.



McKenzie is head of Rayner & McKenzie, Consulting Engineers, Inc., a Baton Rouge firm specializing in civil and structural engineering. He became active in the organization after his partner's firm was inducted into CEC/L in the late 1960s. In the mid 1970s, he began his service on the Board of Governors (state officers) and subsequently served as president in 1981-1982.

During his adminstration, CEC/L conducted a series of meetings with the Louisiana Department of Transportation and Development relative to contractual arrangements and fees. Under his leadership, CEC/L produced a full-page institutional newspaper ad saluting Engineering Week in 1982. CEC/L submitted a "friend of the court" brief on behalf of one of its members in connection with an EPA investigation called "Project Look." CEC/L coordinated chapter meetings with the state legislators. This effort was known as "Know Your Legislator." CEC/L discussed at length the possible merger of the National Society of Professional Engineer and the American Consulting Engineers Council.

Probably McKenzie's most notable accomplishment was the production of a membership development slide presentation. This has been a very successful tool in recruiting new members. He single-handedly coordinated the effort with a group of media experts at LSU. The project, including preparation of the script and photography, encompassed a two-month period. He has remained active in the organization after his participation on the board by serving on various committees at the request of the Council.

McKenzie's honor represents the first time in the 10-year history of the award program that partners in the same firm have received this coveted award. His partner, Alfred G. Rayner (deceased) was similarly honored in 1983. Past recipients include H. Nash Ogden, P.E. (Baton Rouge), C. Carter Brown, P.E. (Baton Rouge), A.W. Holland, P.E. (Baton Rouge), Emery Domingue, P.E. (Lafayette), Chris Demopulos, P.E. (Shreveport), Ralph Crosby, P.E. (Baton Rouge), Warren G. Moses, P.E. (New Orleans), Fielding H. Johnson, P.E. (Baton Rouge), and Easton Stewart, P.E. (Baton Rouge).

CEC/L AWARDS THREE SCHOLARSHIPS

Consulting Engineers Council of Louisiana, Inc. (CEC/L) recently hosted a luncheon in Baton Rouge to honor the three winners of the 1986 CEC/L Scholarship Competition. The program is open to all engineering students, attending an ABET accredited college or university in Louisiana, who will begin their junior or senior year in the Fall of 1986.

First place honors went to Connie F. Gipson, Baton Rouge. She will be a senior at Louisiana State University this fall where she is majoring in Civil Engineering. Ms. Gipson has a grade point average of 3.95 and is a member of the student chapter of ASCE, Chi Epsilon, Tau Beta Pi, and Alpha Lambda Delta. She is the daughter of Colonel John T. Gipson, Camp Butler, Seattle, Washington. She received a $1,000 check and a plaque of recognition. Ms. Gipson also received an "Honorable Mention" (one of 16) in the national scholarship competition conducted by the American Consulting Engineers Council (ACEC). She received an additional $1,000 from the national organization.

Second place was won by Scott M. Sutton, Baton Rouge, a senior Louisiana State University student majoring in Civil Engineering. He has a grade point average of 4.0 and is a member of the student chapter of ASCE and Chi Epsilon (national civil engineering honor society). Sutton is an LSU Alumni Federation scholar and was in the Phi Eta Sigma Freshman Honor Society. He is the son of Bernard S. Sutton, Baton Rouge. Sutton received a check for $500 and a plaque of recognition.

Third place was awarded to Metairie student, David Alciatore. He will be a senior in the fall where he is pursuing a Bachelor of Science degree in Mechanical Engineering at the University of New Orleans. He has a grade point average of 3.94. He is vice president of the local chapter of ASME and is a student member of the Louisiana Engineering Society. Alciatore is a member of the New Orleans Music Association and received the Freshman Mathematics Award, Sophomore and Junior Outstanding Engineer Awards, Tenneco Scholarship, and is on the National Dean's List. He is the son of Henri Alciatore. He received a check for $250 and a plaque of recognition.

McKEE INSTALLED AS CONSULTING ENGINEERS HEAD

Larry A. McKee, P.E., Baton Rouge, was installed as the 1986-1987 president of Consulting Engineers Council of Louisiana, Inc. (CEC/L) at the organization's recent Annual Meeting in Orlando, Florida. He will officially take office on June 1, 1986.

McKee is owner and Chief Executive Officer of Professional Engineering Consultants Corporation, a multi-discipline, Baton Rouge based consulting engineering firm specializing in civil engineering for municipalities, and structural, sanitary, drainage, flood control, highways,

and bridge projects. He was graduated from Louisiana State University in 1958 with a Bachelor of Science degree in Civil Engineering and holds professional licenses in Louisiana, Mississippi, Missouri, Texas, and Alabama. McKee holds membership in a number of other professional organizations including the American Society of Civil Engineers (Past President, Louisiana Section), Louisiana Engineering Society, American Society of Military Engineers, and the Water Pollution Control Federation.

He served as 1983-1984 Baton Rouge Chapter president of the Louisiana Engineering Society and has served the Council as Secretary, Treasurer, Vice President, and President-Elect. He is also an honor member of Chi Epsilon. McKee served on the Board of Directors for the Baton Rouge Chamber of Commerce and was chairman of the Education Committee for the Chamber. He is a member of the Advisory Committee of the LSU Department of Civil Engineering, a member of St. John's United Methodist Church, and the Baton Rouge Rotary Club. McKee currently serves as chairman of the Louisiana Engineering Society's Legislative Committee. He and his wife, B.J., have two children.

Serving with McKee on the Executive Committee of CEC/L are President-Elect, Arthur E. Meyer, Jr., P.E., Alexandria; Vice President, Charles S. Hedges, P.E., Slidell; Treasurer, Gerald A. Dubroc, P.E., Lafayette; and Secretary, Ralph W. Junius, Jr., P.E., New Orleans. McKee succeeds Lindsey J. Aucoin, P.E., Eunice, who will serve the Council as its National Director. Members-at-Large elected to the board include Richard A. Van Wootten, P.E., New Orleans; Charles G. Coyle, P.E., Bossier City; and John S. Matherne, P.E., Baton Rouge.

ACEC ENGINEERING EXCELLENCE AWARDS

Fort McHenry Tunnel, the world's largest sunken tube highway tunnel, took home the top prize for joint venturers Sverdrup/Parsons Brinckerhoff in this year's Engineering Excellence Awards competition. The Grand Conceptor Award was given to the project — called "an engineer's dream" — by American Consulting Engineers Council, the national association of more than 4300 independent, private practice engineering firms.

Fourteen other projects received awards, five of them Grand Awards.

One winner, the restoration of the Statue of Liberty, is sure to be a popular choice. Others are not so well known to the public, perhaps, but are " . . . a major contribution to technical, economic, and social advancement," according to F.K. Mosher, chairman of the Engineering Excellence Committee. They include the Guri hydroelectric project in Venezuela; a rapid response to a hazardous waste site problem; an impressive container terminal at the Port of Los Angeles; a unique wastewater treatment facility; and a laboratory with a demanding environment.

Now in its 19th year, the contest seeks to reward engineering firms for meeting their clients' needs, finding new applications for existing technologies, advancing the state of engineering art, and other criteria. A panel of 25 judges, chaired this year by Russell Jordan, vice president, architecture and construction division, Marriott Corp., selected the winners from 98 entries.

Projects were classified by six categories. These were: studies, research, consulting engineering services; buildings; energy production and conservation; environmental; transportation; and special projects. Examples of special projects are communications, defense facilities, industrial processes, and mining.

The competition is open to all private practice engineering firms in the country. Projects may be located anywhere in the world.

Grand Conceptor

"The ultimate in transportation engineering . . . an engineer's dream . . ." So says the project manager for the Interstate Highway Division for Baltimore, MD, about this year's Grand Conceptor winner — Fort McHenry Tunnel under Baltimore Harbor. It closes the last gap in I-95, the major East Coast highway.

The eight-lane tunnel is replete with firsts: the largest single project in the history of the Interstate Highway System and the widest underwater highway tunnel ever built. Sections of the sunken tube tunnel have both horizontal and vertical curvature, the first such sections ever built for a vehicular tunnel. Two tubes were placed side by side in one single tunnel trench, another engineering first.

Originally, a bridge was planned to make the crossing. However, it would have intruded upon Fort McHenry, which sits on a peninsula that juts into the harbor. The fort is the site of the War of 1812 battle that inspired Francis Scott Key to write "The Star Spangled Banner." The tunnel succeeds in maintaining the integrity of the fort — the only structure in sight is the west ventilation building, which is shielded behind evergreens.

The tunnel curves horizontally around the peninsula, then vertically to descend 108' under water, below the navigational channel. It consists of two binocular-like tubes, each tube containing two bores, and each bore carrying two lanes of traffic. Sixteen concrete-lined, steel-shell tube sections are linked to form a tube — 32 sections in all. Each section is 350' long, 42' high, and weighs 32,000 lbs. Each of the 32 tube sections was lowered into the carefully prepared trench.

The trench was configured to fit the curve of the tube sections and to provide adequate foundations. The sections were put in place by a complex system of tag lines. Railroad car coupling devices linked the lowered tube with one already in place. Hydraulic jacks controlled from a lay barge drew the two tubes together. A diver then entered the lowered tube and opened its dewatering valves, causing a drop in water pressure that pushed the lowered tube against the fixed one, firmly sealing the joint.

More than 3.5 million cubic yards of material, 15 percent of it contaminated with toxic wastes, was dredged to form the trench. The material was removed carefully so that toxins were not released into the harbor waters. Then it was taken to a 146-acre containment site, developed to handle the material, that was complete with its own waste treatment plant. The treated water that was returned to the harbor met stringent environmental regulations.

The ventilation system that services the tunnel is one of the world's largest and is computerized for automatic response to traffic flow, some 66,000 cars and trucks a day. Its 48 fans are 8.5' and 9' in diameter. A sophisticated traffic control system allows operators to respond immediately to any change in traffic flow or an emergency. In an interesting sidelight, the tunnel walls are covered with more than 8 million ceramic tiles, each hand installed and checked.

Planning required 25 exhaustive preliminary studies to determine the best procedure for the complex dredging and construction processes. It also required a complex traffic plan to keep traffic and utility service in the busy area operating without interruption during the more than five years of construction.

Erratum

In the June, 1986 issue of *Louisiana Engineer* (p. 13), in the article re: Joe Mayers, the name of his firm should be Mayers & Associates, Inc., not Meyers & Associates, Inc. The author apologizes for any inconvenience this error may have caused.

LOUISIANA TECH HONORS TWO LES MEMBERS



James L. Meyer, P.E.



Dr. Virgil Orr

James L. Meyer of Alexandria and Dr. Virgil Orr of Ruston were two of the three recipients of the Tower Medallion at Louisiana Tech's spring commencement exercises held May 24 in the Thomas Assembly Center.

The Tower Medallion honors Louisiana Tech alumni who have brought honor, not only to themselves but to the university, by exceptional achievement, community service and humanitarian activities.

Meyer is president of Meyer, Meyer, LaCroix and Hixson Inc., consulting engineers and land surveyors in Alexandria. A native of Tioga, he received his bachelor's degree in chemical engineering from Tech in 1956 and his master's in civil engineering in 1965.

A past chairman of the Louisiana Engineering Society, Meyer was president of the Industrial Development Board of Central Louisiana, 1983-85. He received the Louisiana Engineering Society Leo M. Odom Award in 1981 and the Charles M. Kerr Public Relations Award in 1984.

Meyer is presently on the Board of Directors of the Alumni Foundation and is a member of the Tech Engineering Foundation Board.

Dr. Virgil Orr retired as Vice President for Academic Affairs at Tech in 1980 and is now Vice President Emeritus. He is a 1944 chemical engineering graduate of Tech and holds a master's and doctorate degree from Louisiana State University.

He is also the president and principal professional of Orrgraphics Inc. and is a director of American Bank of Ruston which he helped organize. He is a member of the Louisiana Engineering Society.

Dr. Orr, named Privileged Director of the Louisiana Tech Alumni Foundation in 1985, is also Life Director of the Tech

Want To Join LES?

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Engineering Foundation. He also serves on the Louisiana Board of Regents' Research and Development Program.

IN MEMORIAM

Warren H. Lorio, P.E.

Warren H. Lorio, a former superintendent for the New Orleans Public Service expired on March 9, 1986. Mr. Lorio was born in Aruba in the Netherlands West Indies, and was a longtime resident of New Orleans. He joined NOPSI in 1958 and spent most of his career in gas systems operations and gas odorization work. He was a graduate of Jesuit High School and Tulane University, where he earned a bachelor's degree in mechanical engineering. He was a Registered Professional Engineer and a member of the Louisiana Engineering Society and the American Gas and Southern Gas Associations. Mr. Lorio was an accomplished woodworker and a member of the OWLS woodworking club.

The Society extends its deepest sympathy to wife and family.

IN MEMORIAM

J. Robert Rombach, Jr., P.E.

J. Robert Rombach, Jr., P.E. a retired executive of New Orleans Public Service Inc and a Life Member of the Louisiana Engineering Society, expired on March 9, 1986. Mr. Rombach retired from NOPSI in 1978 after 40 years. He was a Registered Professional Engineer and served in various engineering and executive capacities at NOPSI and retired as assistant to the senior vice president. Mr. Rombach attended Fortier High School and earned a bachelor's degree in electrical engineering from Tulane University. He served in the Navy from 1941 to 1946 and was discharged as a lieutenant commander. Mr. Rombach was a member of St. Luke's Methodist Church, where he was a member of the Board of Stewards. He also was active in the Chamber of Commerce, the Rotary Club, the New Orleans Board of Trade and the YMCA. He was past president of Rotary International and a past chairman of the Tulane Alumni Association.

The Society extends its deepest sympathy to his wife and family.

NEW CONTRACT DOCUMENT

The Engineers' Joint Contract Documents Committee, consisting of the National Society of Professional Engineers, American Consulting Engineers Council, American Society of Civil Engineers, and the Construction Specifications Institute, announces the publication of a new contract document entitled, "Standard Form of Agreement Between Engineer and Geotechnical Engineer for Professional Services." The agreement, intended for use when the engineer employs a geotechnical engineer for continuous services during design and construction of a project, has been approved and endorsed by the Association of Soil and Foundation Engineers.

The document (EJCDC No. 1910-27-B [1986 Edition]), may be obtained by contacting NSPE's Orders Desk, 1420 King Street, Alexandria, Virginia 22314-2715, (703) 684-2881 or the American Consulting Engineers Council, 1015 15th Street, N.W., Washington, DC 20005, (202) 347-7474.

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PRESIDENTIAL PRIVILEGE

Continued from page 4

and engineering students to our profession.

The Constitution and By-Laws Committee, chaired by John "Skip" Ritter, P.E., is charged with the responsibility to review our Constitution and By-Laws and issue rulings of clarification, as well as call attention to the Board of Direction areas that may require rewriting.

The Public Relations Committee is chaired by Henry Markel, P.E., and is charged with the responsibility of dealing with matters pertaining to publicity of both the Society and professional engineers in general, as well as to develop programs for enhancing the public's knowledge and respect for the engineering profession.

The Inter-Society Relations Committee, chaired by Charles Eustis, P.E., is responsible for acting as a liaison between the technical societies, associations and councils, with the goals of coordinating efforts for the common good of the profession.

The Honors and Awards Committee is chaired by Henry Markel, P.E., and has the responsibility to recommend recipients for the Society's awards, as well as to recommend new awards which may be deemed appropriate for the profession.

The Scholarship Committee, chaired by Bob Brossette, P.E., administers both the State and National Society's scholarship programs.

The Membership Committee is chaired by Jim Porter, P.E., and has the

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responsibility for developing programs and policies to enhance the securing of eligible members for our Society.

The reason I am explaining the Society's makeup is to point out that we are structured to respond to the needs of the profession. However, the projects and programs should come from the grass roots, which are the local chapters.

To you engineers who receive this magazine by virtue of your professional engineering registration, and are not members of the Louisiana Engineering Society, I would hope that you would realize that you presently receive many benefits as a result of our Society's operations, and feel a need and obligation to join. It only requires that you fill out the application located elsewhere in this magazine, and mail it. You should realize that, as a professional engineer, you have an obligation to join and enhance the resources of our Society.

POTPOURRI

Continued from page 11

man at age 27. He has been involved in banking for 20 years as a director of several bank holding companies and their subsidiaries.

He received his bachelor of engineering degree in mechanical and electrical engineering from Tulane in 1928 and a master of engineering degree from the university in 1930. Ebaugh is one of four brothers who are graduates of Tulane's school of engineering.

AMERICAN PUBLIC IS CULPRIT IN LIABILITY CRISIS

While numerous factors have contributed to the growing professional liability crisis, the "ultimate culprit" is the American public, according to Milton F. Lunch, Esq., General Counsel of the National Society of Professional Engineers (NSPE). Lunch testified on the liability crisis before the House Ways and Means Oversight Subcommittee.

Lunch pointed to major fluctuations within the insurance industry and a legal climate fertile for lawsuits and large judgments as two roots of the current problem. But, he said, an America looking to find a "riskless" society and the "deep pocket," without much regard for determining who was really at fault, has brought us where we are today.

The effects of these problems on engineers are most noticeable in the area of pollution clean-up. Engineers face a "total exclusion of insurance coverage for activities involved in pollution-related claims, including asbestos," Lunch said. Clean-up may slow because, as he explained, "engineers qualified and interested in performing that service face the choice of gambling the entire assets of their firm if faced with claims arising from that activity, and possibly the assets of the individual engineers in those firms."

While relief may be afforded through enactment of indemnification authority to the EPA under the pending Superfund bill, the future is less optimistic for asbestos removal. "There is no pending legislative relief in sight," Lunch reminded the committee.

Lunch noted current efforts to enact tort reform in the states, and the use of arbitration as partial solutions to the epidemic. He emphasized the need for change in public attitude and for a recognition that appropriate compensation should not become "unwarranted windfalls beyond actual loss." Lunch concluded that "in the long run, the tremendous cost borne by defendants will be passed on to the public in the form of higher costs or unavailability of products and services, failed businesses and lost jobs."

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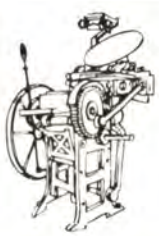
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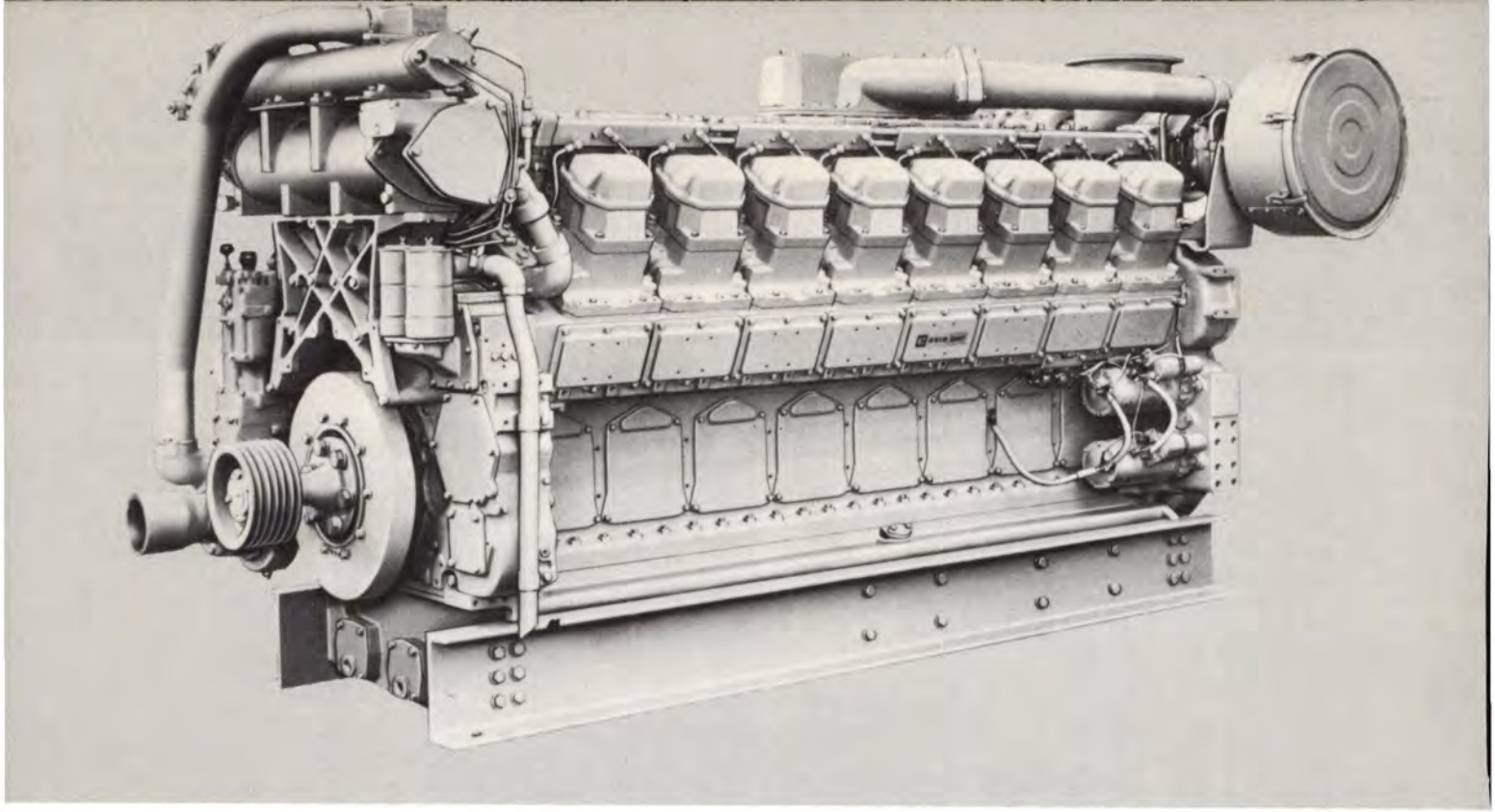

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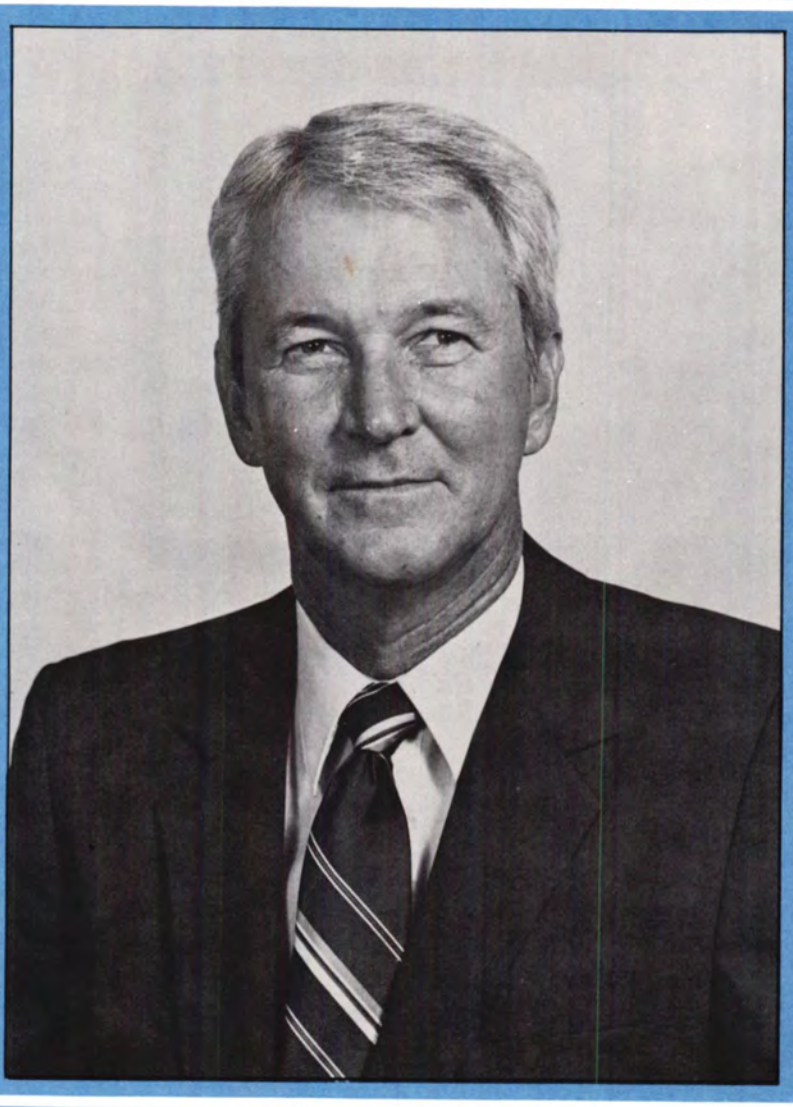

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Louisiana's Investor-Owned Electric Companies urge you to watch these presentations and learn how you can become involved in helping to erase illiteracy. A better-educated, more productive work force means more and better business for our area... and a better quality of life for all of us.

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Sept. 19 7:00 p.m.
A 30-minute documentary "Illiteracy in Louisiana: A Special Report" discusses how illiteracy affects our social, educational, and economic systems.

Sept. 21 7:00 p.m.
A repeat of Sept. 19 broadcast.

Oct. 1 8:00 p.m.
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ABOUT THE COVER

Our cover this month features 1986-1987 CEC/L President Larry A. McKee, P.E.

LOUISIANA ENGINEER

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Presidential Privilege

We're Off to a Good Start!



Robert P. Blanche, P.E.
President
Louisiana Engineering Society

I am pleased to report that the Society's year has started off in a fine manner. The leaders of each chapter have met and formulated plans and programs for the coming year. A planning conference was held on September 12th in Alexandria, LA, for the State and Chapter committee chairmen to meet and jointly develop goals and objectives to work for during the coming year. The meeting was attended by eighty-five (85) people, which makes it the best attended planning conference in many years. Each committee developed two or three goals which it felt were worthwhile. These goals were then presented by the committee chairmen to all attendees at a wrap-up meeting at the end of the day. This information will be gathered by the State Office and issued to each chapter for use in its local activities. These goals will also be used at each State meeting to evaluate progress and to use as a basis for reporting to the general membership.

On September 16th, I attended a State President's Conference at NSPE Headquarters in Alexandria, VA. At this meeting, the National Society's staff reviewed NSPE programs and activities planned for this year. The areas covered included membership development, public relations, government affairs, the Liability Task Force, legal affairs, MATHCOUNTS, student participation, administrative services, and the JETS Program. There is a great deal of activity going on at the national level on behalf of all engineers, and you are encouraged to keep up with these programs by reading the **"Engineering Times"** and the Practice Division Newsletters.

Highlights of our State Society's programs for the coming year include a continued strong effort by our Scholarship Committee, which last year was able to have seven (7) nominees place and three (3) be selected for national engineering scholarships.

MATHCOUNTS is progressing well, with schools throughout the State presently being recruited. One of MATHCOUNTS goals is to increase the number of participating schools and students over last year's fine performance.

The Membership Committee has been authorized to proceed in finalizing new membership brochures. The Membership Committee is also planning to update the "Introduction to Louisiana Engineering Society" audio-visual show.

All Practice Divisions met at the planning conference and are actively pursuing various activities for the benefit of their members.

At the beginning of the year, I indicated that the Society was extremely interested in being responsive to the wishes of the membership. There have been numerous requests to have professional development seminars and programs for the general membership. The Long-Range Planning Committee took steps last year to incorporate such seminars into our statewide meetings. The first two seminars will be held at the annual Awards Meeting in March. The first program will be on technical writing and the second one is entitled "Personal Computer Applications for Professional Engineers." Both of these seminars will be free of charge, and we are looking forward to a large turnout.

Lastly, let me take this opportunity to solicit the entire membership's participation in the Society's Awards Program. The Society has six (6) awards that acknowledge excellence and outstanding service in and for the profession. We have many deserving engineers in our state, and I challenge each and every one of you to seriously consider people in your company, your firm, on your faculty, or in your department who are worthy of consideration and recognition for outstanding performance. More information regarding the awards and the details associated with submitting your candidates are available through your local chapter officers. Please give consideration to people you know and make the effort to submit their qualifications.

LES Board of Direction Minutes

JUNE MEETING

The June meeting of the Board of Direction was held on June 21 in New Orleans in conjunction with the Annual Meeting. There were 20 board members, seven guests, and the LES staff present.

1. The April 1986 and May 1986 financial statements were accepted subject to the annual audit.

2. The fiscal year and administrative year of the Society has been changed to October 1 through September 30. Due to the change, the Board adopted a 15-month budget of $217,500.

3. The Legislative Committee and the Board of Direction perused a report concerning the bidding of professional surveying services by a consulting engineering firm in Louisiana. The President was directed to write the consulting firm advising of LES's policy on the bidding of professional services.

4. The LES attorney has been somewhat reluctant to testify for LES before legislative committee hearings due to his involvement on the State Ethics Commission. The legislative committee was instructed to evaluate the needs of the Society in this area.

5. The LES headquarters has purchased the AT&T telephone system, thereby, reducing the monthly telephone expenses.

6. The Supreme Court of Louisiana granted the Application for Supervisory Writs filed on behalf of Williams Engineering, Inc., and in which *Amicus Curiae* briefs were filed on behalf of the LES and the CEC/L. It will be sixty to ninety days before the case is scheduled for oral arguments.

7. The Engineering Education Report and brochure were mailed to all financial contributors to the study.

8. The term of Chris Demopulos, P.E., on the State Board of Registration expires July 31. The Liaison Committee recommended the names of six engineers to be sent to the Governor. The Board accepted the recommendations of the committee. The engineers: Robert Aillet, Stephen Estopinal, Robert Fenner, Jerry Lazenby, Arthur Meyer, and James Mohr.

9. Edward McNamara, a member of the State Board of Registration, presented some needs of the State Board to the LES Board seeking its assistance. The six-year term on the Board is creating continuity problems for the Board. A committee was appointed to work with the State Board of Registration to address these needs.

10. A letter was written by President Blanche to the Search Committee that is seeking a replacement for Richard Matula, Dean of College of Engineering at Louisiana State University, requesting that it require the replacement to be a registered engineer in the State of Louisiana.

11. The LES dues statements were modified to include a $5.00 LEF voluntary contribution.

12. The Tellers Committee reported the results of the 1986-87 officer election. Elected were: Bobby E. Price, P.E., President-Elect; James W. Reeves, P.E., Second Vice President; Blaise M. Carriere, P.E., Secretary/Treasurer; Kerry J. LaBauve, P.E., and Eric S. Duck, P.E., State Directors.

13. The Tellers Committee reported the results of the balloting for the members of the Engineers Selection Board. Kearney Shaw, P.E., elected to the position July 1, 1986 - June 30, 1987; James R. Ballard, P.E., elected to position January 1, 1987 - December 31, 1987.

14. The members of the Board were requested to address their comments to Paul Landry, State Board of Registration, on competitive bidding of professional work.

15. A committee has been appointed to work with the State Board of Registration on the matter of professional engineer registration exemptions.

AUGUST MEETING

The Lafayette Chapter hosted the August 8 meeting of the Board of Direction. There were 19 board members, two guests and the LES staff present.

1. The June 1986 financial statement was approved subject to the annual audit.

2. The second membership report of the year was distributed with the Lafayette Chapter leading the contest. The membership quotas have been established. A proposed membership brochure and application was distributed for the Board's perusal.

3. Robert D. Fenner, P.E., Shreveport, LA, was appointed to the State Board of Registration to replace Chris Demopulos.

4. An income and expense statement for the annual meeting was distributed.

5. Due to a recent request by an LES member for special consideration on his membership classification, the Constitution and Bylaws Committee was directed to look into developing a mechanism for handling special cases within the membership.

6. Proposed changes on the makeup of the MATHCOUNTS Steering Committee were distributed for the Board's review. The Board referred the proposed changes to the Constitution and Bylaws Committee for recommendations to the Board.

7. Marvin Firmin and Kearney Shaw, the two LES representatives on the Engineers Selection Board, have resigned their positions because of relocating out of state. PEC, in accordance with adopted LES procedures, recommends that Ivan Garzotto fill the unexpired term of Shaw (term July 1, 1986 - June 30, 1987) and James Wernicke fill the unexpired term of Firmin (term ending December 31, 1986).

8. The Board considered a request to make the Long Range Planning Committee a standing committee. This request was referred to the Constitution and Bylaws Committee.

9. An overview of the plans for the LES awards meeting was presented. Two seminars are planned: "Better Oral and Written Communications" and "Personal Computer Applications for Professional Engineers."

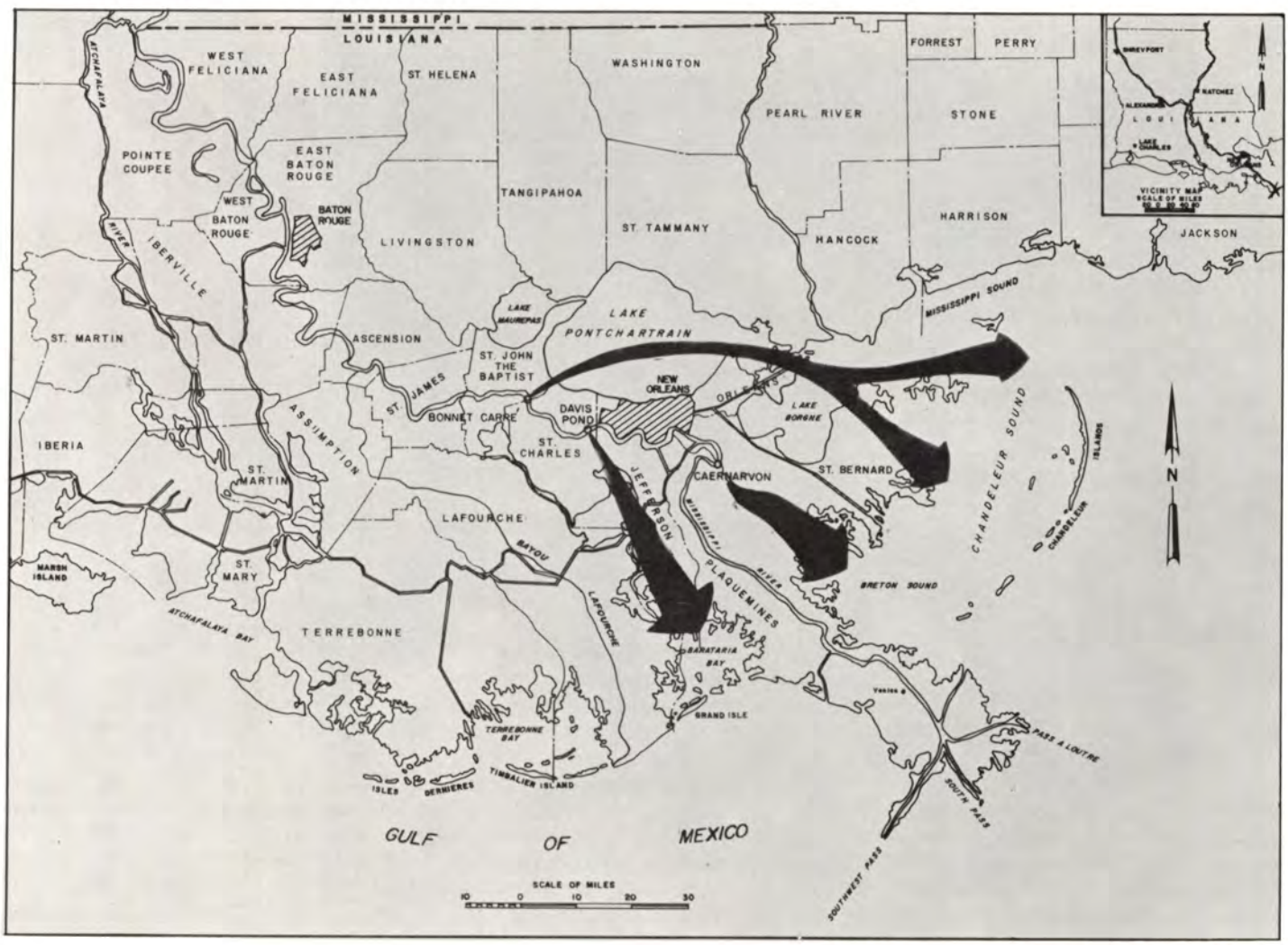
10. The term of James Reeves, P.E., on the State Board of Registration, expires in January 1987. PEE will solicit nominees for this replacement.

Mississippi River Diversion Structures Help Protect Louisiana's Coastal Wetlands

By
Falcolm E. Hull, P.E.
and
Jean R. Watson

Editor's Note: The State's Coastal Protection Master Plan was developed by the Department of Natural Resources. Freshwater diversion is one component of that plan. This article focuses on the Corps of Engineers' contribution over the years to the development of a freshwater diversion plan.

Caernarvon, Davis Pond and Bonnet Carre' freshwater diversion sites.



Louisiana is losing its priceless coastal wetlands at the alarming rate of 60 square miles a year and unchecked the rate of loss threatens the very existence of coastal Louisiana.

Development in this area has greatly benefited the nation but this development has not been without consequence. From 1956 to 1978, more than 560,000 acres of productive wetlands were lost to open water and another 130,000 acres were changed to less productive habitat types.

To combat the devastating loss and enhance the productivity of the wetlands, the New Orleans District of the Corps of Engineers developed a three-pronged comprehensive plan of freshwater diversion. The plan is designed to help control salinities throughout southeast Louisiana from Bayou Lafourche to the eastern Mississippi Sound near Gulfport, Mississippi, using two diversion structures on the east bank of the Mississippi River and one on the west bank.

As early as 1965, Congress recognized the value of freshwater diversion to combat saltwater intrusion and authorized the Corps' Mississippi Delta Region Project for construction. Four diversion structures were proposed: two on the east bank and two on the west bank of the Mississippi River in Plaquemines Parish.

In 1969, advanced engineering and design was begun on an east bank structure at Bohemia. Subsequently, state and parish officials requested that construction be suspended because they wanted to construct a pilot structure and monitor its performance. Since 1970, the Department of Transportation and Development, Office of Public Works, and Plaquemines Parish have constructed two pilot projects on the east bank of Bayou Lamoque. These pilot structures have convincingly demonstrated the feasibility and value of freshwater diversion to people in the area.

In 1968, Congress funded the Louisiana Coastal Area Study, covering 20 coastal parishes. This study provided the overall structure for an ongoing investigation of coastal problems. Cletis Wagahoff, New Orleans District Chief of Planning, says study findings showed that increasing amounts of fresh water in the wetlands would create favorable salinity conditions, enhance vegetative growth, reduce land loss, and improve production of commercial and sport fish and wildlife.

In 1969, the New Orleans District organized an interagency ad hoc group to indentify optimum environmental conditions for fish and wildlife. The group included representatives of the Corps, National Marine Fisheries Service, U. S. Fish and Wildlife Service, the Louisiana Department of Wildlife and Fisheries, and the Louisiana Office of Public Works.

"By 1973, we had defined hydrological and geological characteristics and environmental trends in the estuaries and wetlands, and identified management and structural approaches to enhance the estuarine environment," Wagahoff said. With this information, the ad hoc group determined the amounts of fresh water that would be needed and proposed locations for freshwater diversion structures along the river," he said.

The study confirmed that a site selected in 1965 near Caernarvon was best for diversion into Breton Sound. For a diversion into Barataria Bay, a site at Davis Pond was selected.

The Mississippi-Louisiana Estuarine Areas Study was funded in 1978 to address habitat conditions in the Lake Pontchartrain Basin and Western Mississippi Sound. In that study, Wagahoff says the New Orleans District developed a plan for diverting fresh water into Lake Pontchartrain at the Bonnet Carre' Spillway and presented the plan to the public in December, 1983.

"These three freshwater diversion structures — Caernarvon, Davis Pond, and Bonnet Carre' — are the backbone of the District's plan for freshwater diversion in southeast Louisiana. Diverting fresh water at Bonnet Carre' and Caernarvon on the east bank of the Mississippi River and at Davis Pond on the west bank would mimic the river's historic overbank flooding," Wagahoff says.

Before the levees were built, the river overflowed its banks every spring, flooding the delta marshes with nutrients and sediment-rich water. The sediment would build and sustain the diversity of the marshland. The water, coupled with seasonal rainfall, would maintain broad salinity zones in the estuaries and prevent saltwater from intruding into freshwater marshes. Since the levees were built along the Mississippi River, the river is not allowed to migrate back and forth across what is now southeast Louisiana, supplying the needed nutrients and sediments and moderating salinities.

"Without the annual flood of fresh water, nutrients and sediments, the natural forces of subsidence, compaction, erosion, and saltwater intrusion, along with man's channel dredging and levee building, have spurred a vicious cycle of wetlands deterioration. The input of fresh water would specifically address the problem of saltwater intrusion in the marsh-estuarine complex and would slow the process of deterioration," Wagahoff states.

Detailed engineering and design plans have been completed for the Caernarvon structure and preparation of plans and specifications is underway. Congress is currently considering provisions for funds to initiate construction. If funds are made available, the Caernarvon structure could be under construction by the fall of 1987. Recommendations have been made to the Office of the Chief of Engineers in Washington that the Davis Pond structure be constructed under the Mississippi Delta Region Project. Upon approval of the recommendation, funds will be requested from Congress to initiate detailed engineering and design. Detailed engineering and design studies are now underway for the Bonnet Carre' site and are scheduled to be completed in 1989. Under this schedule, the New Orleans District hopes to have all features in the $115.4-million comprehensive diversion plan ready for construction by the early 1990's.

"The State of Louisiana fully supports the comprehensive freshwater diversion plan and has officially stated an intention to participate financially in construction of the plan," Wagahoff says. "When these three structures are in operation, the District's freshwater diversion plan for southeast Louisiana will complement the state's plans and future Corps efforts. As the pieces are linked in place, together we will have a concerted action program to preserve and enhance Louisiana's priceless wetlands."

Mr. Hull is a water resources planner and civil engineer at the U.S. Army Corps of Engineers, New Orleans District. He is study manager of the Mississippi-Louisiana Estuarine Areas Study.

Ms. Watson is a writer/editor at the New Orleans District.

Reproduced from WATER CURRENTS, Summer 1986.

CONSULTING ENGINEERS COUNCIL OF LOUISIANA, INC. PROUDLY PRESENTS THE 1986-1987 BOARD OF GOVERNORS



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Larry A. McKee, P.E. - A Profile

Larry A. McKee, P.E., Baton Rouge, was recently installed as the 1986-1987 president of Consulting Engineers Council of Louisiana, Inc. (CEC/L) at that organization's Annual Meeting in Orlando, Florida.

McKee is owner and Chief Executive Officer of Professional Engineering Consultants Corporation, a multi-discipline, Baton Rouge-based consulting engineering firm specializing in civil engineering for municipalities, and structural, sanitary, drainage, flood control, highways, and bridge projects. He was graduated from Louisiana State University in 1958 with a Bachelor of Science degree in Civil Engineering and holds professional licenses in Louisiana, Mississippi, Missouri, Texas, and Alabama. McKee holds membership in a number of other professional organizations including the American Society of Civil Engineers (Past President, Louisiana Section), Louisiana Engineering Society, American Society of Military Engineers, and the Water Pollution Control Federation. He served as 1983-84 Baton Rouge Chapter president of the Louisiana Engineering Society and has served this Council as Secretary, Treasurer, Vice President, and President-Elect. He is also an honor member of Chi Epsilon. McKee served on the Board of Directors for the Baton Rouge Chamber of Commerce and was chairman of the Education Committee for the Chamber. He is a member of the Advisory Committee of the LSU Department of Civil Engineering, a member of St. John's United Methodist Church, and the Baton Rouge Rotary Club. McKee currently serves as chairman of the Louisiana Engineering Society's Legislative Committee. He and his wife, B.J., have two children.

"McKee is a doer as well as a planner," says Warren Wilder, CEC/L Executive Director. "He has already activated several committees and is directing their activities through very capable and energetic chairmen. He expects results."

McKee has set the theme for CEC/L this year - "Quality Engineering - A Key to a Successful Practice." With a deep interest and concern about quality in engineering, he is a staunch advocate of the American Consulting Engineers Council's Peer Review program. This program encourages member firms to participate in a review of their management, business, and operational practices by fellow ACEC member engineers.

In the area of membership development, McKee has "suggested" a 10% increase by year's end. He believes it is a tough but attainable goal and one that must be accomplished in order to maintain the strength and vitality of the organization.

Commenting on the board as a whole, Wilder says, "This year the CEC/L Board of Governors is a good mix of young principals and tried and true organizational veterans blending new and innovative thoughts with traditional ideas and concepts. Tie this in with president McKee's aggressive leadership, I expect CEC/L to excel positively this year continuing to be the voice of Louisiana engineers in private practice."

Biographical Sketches of the Board Members

ARTHUR E. MEYER, JR., P.E., Secretary-Treasurer and Civil Division Director of Meyer, Meyer, LaCroix & Hixson, Inc., Alexandria, La., has been elected to serve on the CEC/L board as President-Elect. He will assume the office of President next year. 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 latter 1950s. He is a member of the Louisiana Engineering Society where he served as president of the Alexandria Chapter and as state chairman for Engineers in Private Practice (PEPP). Meyer is also a member of the National Society of Professional Engineers and the American Society of Civil Engineers. He is a certified fall out shelter analyst and is certified to perform value analyses of engineering projects. He is past chairman of the Aviation Committee of the Greater Alexandria/Pineville Chamber of Commerce. Meyer and his wife, the former Karen Burnaman, have five children.

CHARLES S. HEDGES, P.E., is Vice President and Founder of Geotechnical Associates Corporation, Slidell, La. He was graduated from Georgia Institute of Technology in 1956 with a Bachelor of Science degree in Civil Engineering and specializes in geotechnical engineering. His wife, Patricia, is president of the corporation and mother of their three children. Hedges has been elected to serve CEC/L as its Vice President. He has served in the past as president of the New Orleans Chapter, Member-at-Large, secretary and treasurer. He is a member of the Louisiana Engineering Society, the American Society of Testing and Materials, American Society of Civil Engineers, International Society for Soil Mechanics & Foundation Engineering. He is also a member of Sigma Xi. Hedges is a licensed engineer in Louisiana, Illinois, Georgia, and Florida.

GERALD A. DUBROC, P.E., is president of Sellers, Dubroc & Associates, Inc., Lafayette, La., a consulting engineering firm specializing in civil engineering, planning and land surveying. He has been elected to serve CEC/L as Treasurer. Dubroc received his Bachelor of Science degree in Civil Engineering from the University of Southwest Louisiana, Lafayette, in 1960. He holds membership in the Louisiana Engineering Society, National Society of Professional Engineers, American Society of Civil Engineers, LES/PEPP, Louisiana Society of Professional Surveyors, American Public Works Association, and the Water Pollution Control Federation. Dubroc is also a member of Tau Beta Pi and Phi Kappa Phi. He is a former member of the Lafayette City & Regional Planning Commission and is a member of the Greater Lafayette Chamber of Commerce. He has served on the CEC/L board as Lafayette Chapter president for two consecutive years and Secretary. Dubroc served on the Professional and Ethical Conduct Committee of the American Consulting Engineers Council. He is a member of the USL Alumni Association and the USL Ragin' Cajun Club and holds membership in the City Club of Lafayette, Oakbourne Country Club and LeTriomphe Country Club. He and his wife, Diana, have six children. Dubroc is registered to practice engineering in Louisiana and Mississippi, and surveying in Louisiana.

RALPH W. JUNIUS, JR., P.E., has been elected to serve on the Board of Governors as Secretary. He is Vice President of Linfield, Hunter & Junius, Inc., New Orleans, La. Junius was graduated from Tulane University, University of Illinois, and Louisiana State University in 1970, 1972, and 1974 where he received a Bachelor of Science in Civil Engineering, a Master of Science in Civil Engineering and a Juris Doctorate respectively. He has served on the board previously as New Orleans Chapter president. He is a member of the Louisiana Engineering Society, National Society of Professional Engineers, American Society of Civil Engineers, and Tau Beta Pi. He is also a member of the Louisiana Bar Association. Junius is a Fellow of the National Science Foundation, University of Illinois. While at Tulane, he was the recipient of the Louisiana Department of Highways Award for excellence in Civil Engineering. He and his wife, the former Sandra Perrone, have five children.

LINDSEY J. "RED" AUCOIN, P.E., is serving his final year on the board as National Director. He is president of Aucoin & Associates, Inc., Eunice, La., a long established consulting engineering firm offering services in highway design, streets, natural gas transmission and general land surveying. A registered civil engineer, Aucoin received his Bachelor of Science degree in Civil Engineering from Louisiana Tech University in 1949. He is a member of the Louisiana Engineering Society, the Louisiana Society of Professional Surveyors, American Congress of Mapping and Surveying, and the Parish Engineers Associations. He is also registered in the state of Mississippi. Aucoin was a member of the Eunice, La. Industrial Development Board. He has served CEC/L faithfully since 1981 as Secretary, Treasurer, Vice President, President-Elect, and last year as President. He and his wife, Mary Jo, have five children and a couple of grandchildren.

RICHARD A. VAN WOOTTEN, P.E., is Senior Vice President - Engineering Operations of Walk, Haydel & Associates, Inc., New Orleans, La., a multi-discipline consulting engineering firm specializing in industrial plant designs, and the design of deep water terminals, fertilizer facilities, docks, paper and pulp mills, and petroleum and gas producing facilities. Walk, Haydel & Associates, Inc. maintains branch offices in Baton Rouge, Louisiana, and Mobile, Alabama. A registered Louisiana civil engineer, Van Wootten was graduated in 1957 from Rensselear Polytechnic Institute, Troy, New York, with a Bachelor's degree in Civil Engineering. He holds membership in the Louisiana Engineering Society, National Society of Civil Engineers, and the American Society of Civil Engineers. Van Wootten is married to the former Linda McIlvain and they have a son, Peter, and a daughter, Wendy. Previously serving on the 1984-1985 board as New Orleans Chapter president, he has been elected this year to serve as Member-at-Large.

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NÔTRE MÉTIER

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

Principles and Practice of Engineering Examination

Is the Principles and Practice of Engineering Examination tougher?

Are the universities failing to teach students what they need to know so as to pass the Principles and Practice of Engineering Examination?

Has the failure rate for those taking the Principles and Practice of Engineering Examination increased?

Are examinees failing to properly prepare themselves to take the Principles and Practice of Engineering Examination?

In my opinion (not necessarily the Board), **YES! YES! YES! YES!** Beginning with the October 1984 Examination, the National Council of Engineering Examiners (NCEE) implemented the criterion-referenced minimum passing standard for the Principles and Practice of Engineering Examination. In the norm-referenced method which had been used by NCEE for the past several years, the Minimum Passing Score was established by a purely statistical procedure. In the criterion-referenced method, each examinee achieves a passing or a failing score based on the compentency which is demonstrated on the eight (8) items (questions) the examinees select to work. He has twenty or twenty-four items or questions to choose from.

In the criterion-referenced method, a group of knowledgeable licensed engineers, who are familiar with engineering practice and with what practicing engineers themselves say they are required to know as summarized in the NCEE Task Analysis of Licensed Engineers, Volume I, established a minimum passing score on each individual test item.

An Items Specific Scoring Plan (ISSP) was prepared for each examination item based on the NCEE standard scoring plan outline form and was developed by persons who were familiar with each discipline, including the item author, the item scorer, members of the Uniform Examination and Qualification for Professional Engineers Committee (UEQ), and members of the NCEE Professional Examinations Advisory Committee (PEAC).

On a scale of 0-10, minimally competent performance will receive a score of six (6), and scores between six (6) and ten (10) will be considered to be passing scores for each examination item. To pass the Principles and Practice of Engineering Examination, an examinee must average six (6) or greater on his/her choice of eight (8) examination items.

The Louisiana Board notifies the examinee in writing that he or she has either passed or failed the examination. The Board does not release any numerical grades.

Since the change over to the criterion-referenced method of administering the Principles and Practice of Engineering Examination, the passing rate has varied from over 90% in some disciplines to less than 15% in others. The average passing rate has dropped to the mid fifty percent since the criterion-referenced method was adopted. The passing rate for the norm-referenced method previously used by NCEE was in the mid seventy percent range. So I can easily conclude that the Principles and Practice of Engineering Examinations are now tougher and the failure rate has increased.

Yes, the universities are failing to teach students what they need to know so as to pass the Principles and Practice of Engineering Examination. Universities are **not** suppose to be teaching the students what they need to know to pass the Principles and Practice of Engineering Examination. The Principles and Practice of Engineering Examination is an examination designed to test engineers who have acquired **experience.** The Principles and Practice of Engineering Examination is not meant to be an academic examination. It is an examination which is designed to be adminstered to the Bachelor of Science engineer graduate (with an accredited degree) who has at least four (4) years of experience. The Principles and Practice of Engineering Examination is no longer an academic examination. Experience is now a necessity if one is to successfully pass the Principles and Practice of Engineering Examination.

The Fundamentals of Engineering Examination (E.I.T. Examination) **is** an examination which is designed to test academic achievement. That examination is administered to either engineering seniors or recent engineering graduates. The universities are doing a good job in preparing students for this examination. However, the Principles and Practice of Engineering Examination is not intended to be an academic examination.

From my personal contact with examinees who have failed the Principles and Practice of Engineering Examination, I conclude that many have given little thought to preparation. Many who have failed the examination are giving some thought to the examination at the very last minute. How do I know this? The last minute phone calls that I receive in the Board office, and from the interviews with the examinees who have failed the exam. Many readily admit that they did not prepare themselves for the examination.

Preparation for Exam

How should one prepare for the examination? I think of three factors—**Time, Organization, and Physiological.**

Time

A minimum of six months of a disciplined schedule self review is highly advisable.

Organization

Know what material you carry with you on examination day. I have witnessed one examinee who carried eight 12" x 12" x 24" boxes of books. He had to make two trips with an industrial dolly from his automobile to the second floor examination room. He was not organized—he had with him every book that

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:

1986	1987	
	Jan. 27	July 28
Nov. 18	Mar. 24	Sept. 22
	June 2	Nov. 17

he had ever owned. He searched his reference books most of the day to no avail—he failed the examination. Organize your material.

Physiological

The examination day is a very, very long day—no wild party the night before the examination. You need all of the energy reserves you can muster. Relax the night before the examination. Plan the examination day—arrive early—be in position at least 30 to 40 minutes before the examination. Bring your own lunch (brown bag) with you so you don't have to go chase around at noon to find lunch. Eight hours of examination is not something that most of us do very often. You need to be physiologically prepared for this examination.

Conclusion

The Principles and Practice of Engineering Examination is a critical examination for all who aspire to become professionals. The examination is a pass or fail examination—it is administered to simply determine a minimum standard of compentency. You want to take this examination but one time. **Do not take this examination unless you are ready for it. Only you can make that decision. A sure-fire way to not pass the Principles And Practice Of Engineering Examination is to not be prepared, to be disorganized, and to have a good beer bust the night before the exam.**

Council Record of the National Council of Engineering Examiners

Now that you have your Professional Engineers license, you may be considering registration in a neighboring state. Many engineers find that having a NCEE Council Record will simplify and expedite registration via comity/reciprocity in a majority of states. All jurisdictions will require that the applicant complete at least part of their standard application, and a few may require additional information to supplement the NCEE Council Record. Any Professional Engineer is eligible for the NCEE Records Program.

Benefits

A NCEE Record will, in most cases, reduce the paperwork required by a registration board. Since the NCEE Record contains verified transcripts, registration, Professional Engineer references and work experience, you will not have to duplicate this information. Most states will accept the Council Record without further duplication of the paperwork. Also, since the Record contains your concise work experience, this information will be available for future use (i.e.-registration)—be it 10 to 20 years from now.

When you need registration in additional states, a copy of your NCEE Council Record can be transmitted to other registration authorities with your written release. Special forms are provided for this purpose. Your Council Record cannot be released without your consent and cannot be released to any other agency or person.

Requirements

When completing your NCEE Record application forms, please provide NCEE with your complete record, including education, engineering and/or non-engineering experience, five Professional Engineer references with knowledge of your engineering reputation and registration information.

When the completed application is received by NCEE, it will be reviewed and processing initiated.

Contents

When the NCEE Council Record is complete it will contain a concise report of your education, experience, references, examination results and registration which have been verified by NCEE. Yearly you will receive renewal forms for reporting the current information as to the year's activities and a current engineer reference.

Preparation

A discount applies for newly licensed Professional Engineers. If application is made during: the first calendar year after

Continued on page 15

Registration Board 1986 - Roster

Available upon Request-
One Per Person-

As long as the supply lasts-

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

1055 St. Charles Ave.
Suite 415
New Orleans, LA. 70130
Tel. (504) 568-8450

Examination Schedule

	SPRING Apr. 11, 1987 Apr. 16, 1988	FALL Oct. 25, 1986 Oct. 31, 1987
Fundamentals of Engineering Examination (8 hrs.)	X	X
Fundamentals of Land Surveying Examination (8 hrs.)	X	X
Principles and Practices of Engineering (8 hrs.) Civil (Including Structural & Sanitary), Mechanical, Chemical, & Electrical	X	X
Agricultural, Industrial, Metallurgical, Mining & Petroleum		X
Principles and Practices of Land Surveying (4 hrs.)	X	X
Laws and Procedures of Land Surveying (4 hrs.)	X	

Apply at least *six* to *eight* months prior to an examination. Board approval *must* be given for anyone to be scheduled for an examination.

The applicant and the Board depends upon information provided by third parties in the processing of an application, therefore no assurance can be given that one will be scheduled for a specific examination.



POTPOURRI

Leta Bueto
Executive Director
Louisiana Engineering Society

1987 LES AWARDS MEETING SCHEDULED

The 1986 LES Planning Conference was held on September 12 at the Sheraton Alexandria. Some 85 engineers attended this one-day workshop. There was a general feeling of optimism among the attendees, and everyone was anxious to carry new ideas and goals back to his chapter for action.

The 1987 LES Awards Meeting will be held March 18-21 in Monroe, LA. There are two seminars planned for this meeting. One is entitled "Better Oral and Written Communication Skills for Engineers." The instructor, George West, Jr., is a native of New Orleans and a graduate of Tulane University. Prior to forming his own consulting firm, West spent 32 years as an employee of Exxon Company, USA. Since starting his consulting firm about five years ago, West has built and still serves a market of about 20 corporate clients, both in the United States and overseas. Seminars have been conducted in California, Texas, Louisiana, Arkansas, New Jersey, New York and Saudi Arabia. This will be a "hands on" seminar, covering such skills as preplanning, projection, body movements, visual aids and conversationality. We feel this seminar will prove beneficial to all engineers.

The second seminar is entitled "Personal Computer Applications for Professional Engineers." The instructor is Melvin Corley, P.E., Ph.D. Dr. Corley is a professor of Mechanical Engineering at Louisiana Tech University. The session will present an overview of some areas of application concerning computers that should be of interest to engineers. Some of the topics covered will be computer-aided design and interactive graphics, programming languages, networking, data acquisition and electronic spreadsheets. The session will include an introduction to each topic and a brief presentation of the types of hardware and software available that address the topic. Dr. Corley will also lead a discussion of current topics of interest to personal computer users. We all realize the important part the computer plays in our lives; why not attend this seminar to be confident that you are "getting the most" from your computer.

In addition to the seminars, there will be something for everyone at the Awards Meeting. The Ladies Auxiliary is planning activities for the ladies; and a special treat is being planned for Thursday evening. Look for details in the next issue of the **Louisiana Engineer**. Meanwhile, be sure to make plans to attend this Awards Meeting. You won't want to miss it!

LOUISIANA ENGINEERING FOUNDATION

The Louisiana Engineering Foundation needs your financial assistance. Contributions are vital if LEF is to accomplish its goals. As an engineer or an employer of engineers you should support the Foundation and the profession. All contributions are tax deductible.

Make your check payable to LEF and send to P.O. Box 2683 Baton Rouge, 70821.

ENGINEERS DECRY DEMANDS FOR EXCESSIVE CONTRIBUTIONS

Consulting engineering firms throughout the country are experiencing pressure to make contributions to political campaigns in their local communities. In many of the communities these contributions have been construed by the local press as being necessary in order for the firms to be considered for later engineering contracts.

Expressing concern over this situation, the Board of Governors of Professional Engineers in Private Practice Division of the National Society of Professional Engineers, at its annual meeting in Indianapolis, reaffirmed the provision in the Society's Code of Ethics prohibiting this practice. The code states that "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."

Calling the practice a growing national concern, Division Chairman James Rhyne, P.E., said, "Our members need to know that they can participate in the political process without the need to respond to what are often exhorbitant requests for contributions. Our code gives them guidance that enables them to deny excessive requests from candidates who themselves are under pressure from the greatly increased cost for public office. Engineer-sponsored political action committees are an excellent way to support candidates' campaigns."

TECHNICAL SESSION SPONSORED BY LOUISIANA SOCIETY OF PROFESSIONAL SURVEYORS

The Louisiana Society of Professional Surveyors is sponsoring a Fall Technical, Session, October 18, 1986, at the Center for Engineering and Business Administration, on the Louisiana State University campus.

For more information contact Carolyn East, 6141 Parkforest Drive, Baton Rouge, LA 70816 (504) 292-5955.

Mini-Courses In Computer-Assisted Design

The Department of Civil Engineering, Tulane University is presenting a series of mini-courses in Computer-Assisted Design for Micro- and Mainframe Computers.

The series consists of six technical courses with an Introduction to Micro-Computers as a starting course for those not familiar with the intricacies of microcomputer equipment.

Participants will receive a wealth of resources in the form of notes, program listings, program diskettes, and hands-on experience on a variety of microcomputers.

Computer-Assisted Design Series

Introduction to Micro-Computers 1st Session: October 10-11, 1986; Alt. Session: October 17-18, 1986; Fee: $50.00.

Structural Analysis - Micro-Computer 1st Session: November 7-8, 1986;

Alt. Session: November 14-15, 1986; Fee: $165.00.

Structural Analysis - Mainframe 1st Session: December 5-6, 1986; Alt. Session: December 12-13, 1986; Fee: $165.00.

Steel and Concrete Design 1st Session: January 9-10, 1987; Alt. Session: February 16-17, 1987; Fee: $165.00.

Geotechnical Engineering 1st Session: February 13-14, 1987; Alt. Session: February 21-22, 1987; Fee: $165.00.

Surveying and Coordinate Geometry 1st Session: March 13-14, 1987; Alt. Session: March 20-21, 1987; Fee: $165.00.

Computer Graphics and Drafting 1st Session: April 10-11, 1987, April 17-18, 1987; Alt. Session: May 15-16, 1987, May 22-23, 1987; Fee: $275.00.

For more information, contact Dr. John L. Niklaus, Tulane University, (504) 865-5778.

NSPE FOCUS ON EDUCATION, PUBLIC SAFETY AND ETHICS

Ethics, public safety and education issues topped the agenda at the recent National Society of Professional Engineers meeting in Indianapolis, Indiana.

The continuing liability crisis affecting the availability of liability insurance for professionals prompted the NSPE Board to approve a revision to the Society's Code of Ethics. The Code had required that engineers accept "personal responsibility" for all work. The newly revised language permits the engineer to seek contractual protection such as "indemnification from liability for professional services arising out of their practice for other than gross negligence where their interests cannot otherwise be protected" by available insurance. The revision reflects the heightened concern of engineers relating to the liability insurance crisis.

Recognizing the need for expanded efforts in precollege education and guidance, awareness of technology, quality education for engineers and maintenance of professional competence, NSPE has reorganized its Education Foundation. The reorganization will allow NSPE to become more involved in educational and public awareness activities and to seek more aggressively corporate financial support for these important programs, including the nationally recognized MATHCOUNTS program for 7th and 8th grade students.

As one of its first acts, the Foundation approved a new program aimed at improving the recruitment and retention of engineering college faculty. NSPE is developing and will support a national fellowship program for graduate study for engineers willing to enter the teaching of engineering.

Reaffirming the commitment of engineers to serve the public welfare, NSPE has appointed a task force to study the feasibility of a national registry of en-

Continued on page 20

ENGINEERS' INCOME UP SLIGHTLY FROM 1985

Engineers' median annual income rose from $45,760 to $47,200 from January 1985 to 1986, and the economic forecast for the industry through this year is optimistic, according the the just-released National Society of Professional Engineers **NSPE Professional Engineer Income and Salary Survey 1986.**

However, though median income increased 3.1%, the gain was less than half of the 6.4% rise the previous year and, for the first time in four years, it did not keep pace with the Consumer Price Index (CPI), which rose 3.9% during the same period.

More than 43% of respondents reported the economic health of their employers to be much improved or somewhat improved over that of a year ago, with more than half anticipating continuing improvement in 1986. Almost 44% expect the number of engineers employed by their organizations to increase in 1986.

The NSPE survey is based on a questionnaire mailed to 60,982 non-student, actively employed NSPE members in January 1986. The results are based on 14,303 usable returns.

Income is defined in the survey as the individual's annual base salary from the primary employer as of January 1, 1986, plus fees, bonuses, and commissions, during the preceding 12-month period, but excluding pay and income from secondary or part-time employment.

Listed here is a brief summary of findings reported according to branch of engineering, job function, industry of employer, geographical region and metropolitan area.

Also, in the full survey report are additional data including cross tabulations of the basic variables, such as income by years of experience and job function. The full report, **NSPE Professional Engineer Income and Salary Survey - 1986** (Pub. No. 0004 is available for $35 to NSPE members and $75 to non-members from the NSPE Orders Desk, 1420 King Street, Alexandria, VA 22314-2715.

Median Income by Branch of Engineering

Highs	Petroleum & Mining	$52,850
	Nuclear	50,000
	Metallurgical & Materials	49,350
Low	Safety	40,965

Median Income by Job Function

Highs	Executive/Administrative	$56,800
	Research & Development	47,200
	Teaching/Training	46,726
Low	Design	40,800

Median Income by Industry or Service of Employer

Highs	Petroleum & Coal Products	$53,380
	Construction & Real Estate Development	52,510
	Research Organizations & Labs	52,070
Lows	Governments-state	40,833
	local	41,770
	federal	42,687

Median Income by Geographical Region

Highs	Northeast	$50,210
	West	49,500
Low	Great Plains States	43,743

Median Income by Metropolitan Areas

Highs	New York City	$58,650
	Newark/Jersey City	55,000
	San Francisco/Oakland	54,040
Low	Cincinnati	41,500

A Step Backwards?

By Lloyd G. Hoover, P.E.

In 1898 a small group of engineers from New Orleans formed the Louisiana Engineering Society and by 1908 were successful in bringing about Louisiana's first registration act for engineers. This success was the beginning of a law for the protection of the public. The principal provision of the 1908 act was the requirement of a diploma from an engineering college of good standing or passing a satisfactory examination. The act originally covered Civil Engineers and Land Surveyors. The act was amended in 1914, 1920, 1946, and 1950. The 1950 amendment increased the scope of registration to include all branches of professional engineers.

With the passage of Act 73 in 1950 the Louisiana State Board of Registration for Professional Engineers and Land Surveyors was created. This act allowed for the immediate registration of certain employees of the State of Louisiana and it's political subdivisions as (public employee) Civil Engineers. It also provided for the immediate registration of current practitioners in branches other than civil engineering. The board was authorized to register persons as Professional Engineers on one of the following bases:

1. Diploma
2. Experience plus two, eight-hour examinations
3. Long established practice
4. Reciprocity

Experience and examination were not required if a graduate received a diploma from a college with an approved engineering curriculum. Eight years of progressive experience in engineering work plus an oral examination administered in two, eight-hour sessions were required for persons not qualified under the long established practice section. An applicant has to have at least twenty (20) years of progressive experience at a professional level and at least eight (8) years of pre-professional experience to qualify for long established practice registration. He was also required to have responsible charge of important engineering work for at least twelve (12) years. A written exam could not be required for this applicant.

Act 73 of 1950 was amended in 1967, 1969, and 1975. Among other provisions, the 1975 amendment separated civil engineering and land surveying. The requirements for the registration of Land Surveyors were upgraded and so were the requirements to registration of Professional Engineers. The Board could now require applicants for long established practice to pass a written examination. The Board adopted rules that upgraded the registration of engineers over a period of thirty (30) years.

However, a complete rewrite of the registration law was undertaken and on September 12, 1980, Act 568 of 1980 became Louisiana's registration law for Professional Engineers and Land Surveyors. The new act incorporated many of the rules adopted by the Board over the last thirty (30) years. The upgrading of the registration law for the protection of the public was now an act of law. The only clause which provides for registration on the basis of long established practice was phased out after December 31, 1984. After this date all applicants for registration as Professional Engineers must:

1. be a graduate of an approved college curriculum
2. have at least four (4) years professional experience
3. pass two, eight-hour examinations

There are no provisions for exceptions to this rule!

Now, in 1986, there are those who would like to consider taking a 36-year step backwards to allow registration not in accordance with the present act.

If we start this backward progression where and when does it stop? If individual exceptions are made, law will be weakened. I suggest the courts would look unfavorably at future Board rules if inconsistency in the registration law occurs. Reciprocity with other states may be in jeopardy.

Presently, industry is exempt from the registration law. There is consideration to allow registration not in accordance to the present law for a trade-out to abolish the exemption for industry. Industry should not be exempt and should not want to be exempt. If a person practices engineering in Louisiana, it will effect the Louisiana public. Progression toward insuring qualified professional engineers and upgrading of the registration law should be continued.

Several professional engineers in the state including this writer were registered under an act not as good as the present act. The important issue is the continued upgrading of registration. To insure the integrity of the registration law this writer suggests the upgrading of registration should continue forward, including continuing education requirements and the college curriculum be an approved engineering curriculum. Engineers need only to look at the Real Estate registration laws to see solid progressive upgrading. The '50s were fabulous but let's leave nostalgia for the music business. Let's not take the step backwards.

This article was written to express the view L.E.S.-P.E.P.P. elected officials felt represented the membership of P.E.P.P. P.E.P.P. meetings are very well attended in Louisiana. We have scheduled meetings at the State spring, fall, and training session conventions. We welcome all engineers in private practice to meet with P.E.P.P. or to write and express their views on any subject related to the engineering practice. Different viewpoints professionally presented make an organization and a profession strong.

*** Historic information obtained from *History of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors* by Paul L. Landry, P.E.**

LES Awards Program

Henry E. Markel, Jr., P.E. Chairman
Honors and Awards Committee

Recognition of fellow engineers has always been an important program of the Louisiana Engineering Society. It is the Society's feeling that honors and awards should be given deserving members so that public recognition of their attainments will inspire others.

The Society has six basic awards:

- The Andrew M. Lockett Medal for Civic Activities
- The A. B. Paterson Medal for an Engineer in Management
- The Charles M. Kerr Public Relations Award
- The James M. Todd Technological Accomplishment Medal
- The F. Hugh Coughlin Young Engineer Award
- The Leo M. Odom Award for Services to the Profession

Nominations for recipients of the awards may be made by:

- Any elected officer of the State Society or one of the Chapters.
- The Board of Direction of the Society.
- The Executive Committee or equivalent body of the Chapter.
- Three or more members of the Society.
- The individual Chapter Honors and Awards Committee.

Nominations may be submitted to a member of the Honors and Awards Committee, or to the Honors and Awards Committee in care of the State Office, no later than November 15, 1986. Nominations for the awards must be submitted on the appropriate form. These forms were delivered or mailed to each Chapter on September 13. The nomination forms should be supported by:

1. A full statement of the formal academic training, experience, progress, and notable technical or engineering contributions made by the nominee.
2. A statement of the basic reasons for submitting the nomination, and for believing that the nominee is eligible for the honor.
3. Such other information and references as may be of assistance to the Board of Direction in considering and acting upon the case.
4. It is essential that such documentation carry the present title and company connection of the nominee, and set forth clearly and concisely why he should be named for the award recommended.
5. A photograph of the nominee.

It is time for the Chapters to screen and select worthy candidates. Nominations for the awards must be in the hands of the Executive Director by November 15, 1986.

Awards will be presented during the Society's spring meeting on March 20, 1987 in Monroe.

NOTRE METIER

Continued from page 11

licensure cost is $50; the second calendar year after licensure cost is $75; subsequent years full fee of $95 applies.

Transmittal of an active Council Record costs $35. A renewal of an active Council Record costs $15. Reinstatement and reactivation of a Council Record $15 per year of inactivity not to exceed $75.

Each engineer maintaining an NCEE Council Record will receive a free subscription to the Registration Bulletin. The newsletter is published five times a year and contains informations of interest to Professional Engineers.

For further information, please contact:

Records Verfication Program
National Council of Engineering Examiners
P. O. Box 1686
Clemson, SC 29633-1686
Telephone: (803) 654-6824

Rule Changes Adopted

The following was approved by the Board at its September 23, 1986 meeting and will be effective on October 20, 1986 upon publication in the **Louisiana Register**:

"In accordance with the Notice of Intent published in the July 1, 1986 **Louisiana Register,** the Board of Registration for Professional Engineers and Land Surveyors hereby adopts the following additions, deletions, and revisions to Louisiana Administrative Code 46:LX1 (previously 19-3):

1515. Re-Examination (previously 19-3:9.8).

A. A person who fails an examination for the first time is eligible to apply to retake the examination.

B. A person who has failed an examination on two occasions, regardless of the elapsed time between exams, will be eligible to apply to retake the examination six months after his last failure. Upon application he is expected to present evidence that he has made a serious effort to increase his knowledge of the subject matter covered by the examination.

C. A person who has failed an examination three times or more than three times will be eligible to apply to retake the examination 18 months after his last failure. Upon application he must present evidence that he has made a serious effort to increase his knowledge of the subject matter covered by the examination. Before the applicant is given approval to retake the examination he must appear before the Board or a committee of the Board for an interview and oral examination.

1201. Seal Rules (previously 10.4.2)

D . . . .

1 . . . .

2. [Adds the following sentence to end of paragraph to define the word "reports"]

Reports are defined as to include, but not limited to, geotechnical investigations, material testing and related reports.

By order of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors."

Paul L. Landry, P.E.
Executive Secretary

SPEC SHEET
Continued from page 9

CHARLES G. COYLE, P.E., has been elected to serve a second term on the Board of Governors as Member-at-Large. He is president of Coyle Engineering Co., Inc., Bossier City, La. He was graduated from Louisiana Tech University in 1968 with a Bachelor of Science degree in Civil Engineering and is licensed to practice in Louisiana. He is a member of the Louisiana Engineering Society and the National Society of Professional Engineers. He and his wife, Sheila, have two children. Coyle serves on the Board of Directors of the Greater Bossier Economic Development Foundation, a member of the North Bossier City Levee District, and is an elder of the Cottage Grove Memorial Presbyterian Church. Coyle's firm specializes in the design of streets, roads, drainage, water collection distribution and treatment facilities, surveying and foundation design and structural design.

JOHN S. MATHERNE, P.E., has been elected to serve a second term on the Board of Governors as Member-at-Large. He is Vice President of Bovay Engineers, Inc. and Manager of the Baton Rouge office. Matherne was graduated from Tulane University, New Orleans, La. with a Bachelor of Science degree in Mechanical Engineering in 1957. He is a Louisiana registered mechanical engineer and is affiliated with the Louisiana Engineering Society, National Society of Professional Engineers, American Society of Mechanical Engineers, and TAPPI. Matherne served on the 1983-1984 CEC/L board as Baton Rouge Chapter president. For the past four years, he was chairman of CEC/L's Rule 1 Ad Hoc Committee which was established to monitor the enforcement of the Louisiana Rule 1 Tax Incentive Program as it pertains to the use of Louisiana design firms by assisting the Louisiana Commerce & Industry Board staff in its review of the applications it receives. Matherne is married to the former Joyce L. Blereau and they have five children.

MORGAN M. WATSON, P.E., was born in St. Joseph, Louisiana in 1943, and attended public schools in Tensas Parish, graduating from Tensas Rosenwald High School as Valedictorian in 1961. He attended Southern University on an academic scholarship, graduating in 1966 with a Bachelor of Science degree in Mechanical Engineering. While in college, he participated in various activities including a full year as co-op student at Marshall Space Flight Center, Huntsville, Alabama, honor student, and was selected for *Who's Who Among Students in American Colleges and Universities.* After passing his EIT in 1966, Watson became a P.E. in 1971, and organized MEL, Inc. in 1972 after realizing that absolutely no opportunities existed for blacks and minorities as engineers in private practice. Presently, MEL, Inc. is among the four largest minority-owned consulting engineering firms in the country, and among the largest in the state of Louisiana. Watson is married to the former Helen Johnson of Newellton, La., and is the father of their three children. He has served on the CEC/L board as Member-at-Large and was relected by the Baton Rouge Chapter to serve as its president a second term.

DAVID KANTER, P.E., is serving on the board this year as New Orleans Chapter president. He is president of Warren G. Moses & Co., Vice-President of Cappel, Tousley & Moses, Inc., and Vice-President of Spanish American Engineers, all New Orleans consulting engineering firms. Kanter is a 1970 graduate of the University of Texas at Austin with a Bachelors of Science in Electrical Engineering and is registered to practice in Louisiana and Texas. He did graduate work in Industrial Engineering at the University of Texas in Arlington, and in Business Administration at Southern Methodist University in Dallas. Kanter completed six years in the United States Army Reserve, four of which as a military intelligence analyst. He is married to the former Patricia Friedler and they have two children. Kanter is a member of the Illuminating Engineering Society, and currently serving as a member of the Agency Relations Executive Committee of the United Way and an officer of the Board and member of the Executive Committee of the Jewish Community Center. He previously served as chairman of the Mayor's Citizen's Advisory Committee for Energy Management for the City of New Orleans.

JAMES M. POCHE', P.E., has been relected president of the Lafayette Chapter and serves on the CEC/L board in that capacity. He received his Bachelor of Science degree in Mechanical Engineering from the University of Southwest Louisiana, Lafayette, La., in 1970. Poche' is president of Poche' Associates, Ltd., a Lafayette engineering firm offering 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 ASHRAE, AEE, the Louisiana Engineering Society, National Society of Professional Engineers, and the Louisiana Architects Association. Poche' is a member of the Lafayette Chamber of Commerce, was United Givers Fund Section Chairman, and is an active member of the American Consulting Engineers Council Energy Committee. Last year, he served as chairman of the Louisiana Engineers Selection Board, a board empowered to award state agency contracts to engineering firms. Poche' is married to the former Linda DeRouselle and they have two teen-age children.

R.L. "RICK" NOWLIN, P.E., is serving on the board as Alexandria Chapter president. He is president of the firm of W. Pierre Lemoine & Associates, Natchitoches, La., a multi-discipline consulting engineering firm that offers general engineering services including feasibility studies, design, planning and supervision on all commercial, industrial and municipal projects, including power generation, transmission and distribution, and sanitary landfill facilities. Nowlin was graduated from Louisiana Tech University with a Bachelor of Science degree in Electrical Engineering in 1971 and a Master's degree in Business Administration in 1972. He is affiliated with the National Society of Professional Engineers, the Louisiana Engineering Society, and IEEE/PES. He is married to the former Brenda Barr and they have two children. Nowlin is a member of the Nathcitoches Rotary Club, Past Master and Secretary of Simcoe Walmsley Lodge No 359, F. & M.A., Flora, La. He is on the Natchitoches Electrical Board, and is a member of the Natchitoches First Baptist Church. Nowlin's firm serves as City Engineer for Natchitoches.

JERRY M. MADDEN, P.E., is an Associate and Senior Civil Engineer and Architect in the firm of S.E. Huey Co., Monroe, La., an established consulting engineering firm offering route and property surveys, commercial and industrial buildings, bridges, highways, industrial and municipal water and waste treatment, and land development. He has been elected by the Monroe-West Monroe Chapter to serve as its president, a position he held several years ago. Madden was graduated from Louisiana Tech University in 1966 with a Bachelor of Science degree in Civil Engineering. He is licensed to practice engineering in Louisiana, Texas, Mississippi, Oklahoma, and Arkansas. He is a registered land surveyor in Louisiana, Texas and Arkansas, and is a licensed architect in Louisiana. He is a member of the Louisiana Engineering Society, American Society of Civil Engineers, ACI, Construction Specifications Institute, and the American Institute of Architects. He also holds membership in Tau Beta Pi. Madden is married to the former Gloria Camp and they have one child.

JOE E. ROACH, P.E., is Vice President of BaLaR Associates, Inc., a Shreveport, La. based consulting engineering firm offering general civil engineering including structural and sanitary engineering. He was elected to serve on the Board of Governors as the Shreveport Chapter president. Roach is a graduate of Louisiana State University with a B.S. degree in Civil Engineering. He is a registered Professional Civil Engineer in Louisiana, Arkansas, and Texas and has been practicing civil engineering since 1960. After graduation, his experience background includes the United States Corps of Engineers and the American Oil Company prior to joining J.S. Boyd and Associates 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 specialities include structural design, water and sanitary sewerage facilities design, and paving and drainage designs. He is a registered land surveyor in the State of Louisiana and is a member of the American Society of Civil Engineers, Louisiana Engineering Society, National Society of Professional Engineers, Professional Engineers in Private Practice, American Water Works Association, Water Pollution Control Federation, Construction Specifications Institute, and the Louisiana Conference on Water Supply and Sewerage and Industrial Waste.

RONALD H. JONES, P.E., is Lake Charles Branch Manager for Soil Testing Engineers, Inc., a consulting engineering firm specializing in geotechnical engineering, geohydrology and quality control. He serves on the CEC/L Board of Governors representing the Lake Charles Chapter as its president. Jones received a Bachelor of Science degree in Civil Engineering from the United States Coast Guard Academy in 1976, and a Master of Engineering degree in Civil Engineering from Tulane University in 1981. He holds memberships in the Louisiana Engineering Society, National Society of Professional Engineers, American Society of Civil Engineers, and the American Concrete Institute. Jones and his wife, Coral, have one son.



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ROBERT D. FENNER, P.E., APPOINTED TO STATE BOARD OF REGISTRATION

Robert D. Fenner, P.E., a partner in the consulting engineering firm of Aillet, Fenner, Jolly & McClelland, Inc., Shreveport, has been appointed by Governor Edwards to the Louisiana State Board of Registration for Professional Engineers and Land Surveyors. The term became effective August 1 and is for a period of six years.

Fenner replaces Chris Demopulos, P.E./P.L.S., Shreveport, who has been a member of the Board for the past nine years.

Fenner graduated in 1953 from Louisiana Polytechnic Institute with a Bachelor of Science Degree in Civil Engineering and earned a Master of Science Degree in Civil Engineering in 1957 from Louisiana State University. He is a Registered Professional Engineer in Louisiana, Texas and Mississippi and a licensed Professional Land Surveyor in Louisiana.

A native of El Dorado, Arkansas, Fenner is a member of the First Methodist Church, Shreveport, the American Society of Civil Engineers, National Society of Professional Engineers, Louisiana Engineering Society, American Concrete Institute, Prestressed Concrete Institute, American Consulting Engineers Council of Louisiana and Tau Beta Pi Honor Society.

He is the Past President of the Shreveport Chapter of American Society of Civil Engineers, Past President of the Shreveport Chapter of American Consulting Engineers Council of Louisiana, and Past President of the State Chapter of the American Consulting Engineers Council.

ARTHUR R. THEIS, P.E./P.L.S. HONORED UPON RETIREMENT

Arthur R. Theis, P.E./P.L.S., Deputy Chief Engineer of the Louisiana Department of Transportation and Development, was honored in August upon his retirement after 33 years of service.

Marty J. Chabert, Assistant Secretary of the Office of Public Works, served as master of ceremonies at the retirement party. Numerous public officials gave remarks during the ceremonies including George Grugett, executive vice president of the Lower Mississippi Valley Flood Control Association; Aubrey Gravois, president of the Association of Levee Boards; Maj. Gen. Thomas A. Sands, president of the Mississippi River Commission; Col. Eugene S. Witherspoon, district engineer of the New Orleans District, Corps of Engineers; and State Representative Richard H. Baker.

Theis recounted among his accomplishments the coordination of the U.S. Army Corps of Engineers flood control program; the development of the engineering staff requirements for Ouachita River and Red River Navigation Projects; the development of the engineering terms in the Red River Compact for the division of water between the states of Texas, Oklahoma, Arkansas, and Louisiana; the development of the Dam Safety Program serving as Chief Dam Safety Officer for the state.



He also directed development of the Statewide Flood Control Program, and the Development of numerous pieces of legislation regarding flood control, water resource programs.

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He was commissioned by Governor Edwin Edwards to represent the State of Louisiana as a Commissioner on the Red River Compact, also commissioned by Governor Edwards to serve as a member of the State Board of Registration for Professional Engineers and Land Surveyors in 1978.

A native of Louisiana, born and raised in Shreveport, Theis attended public schools in Shreveport. He is married to the former Bette Smith and has two daughters and one grandson. After serving in both World War II and the Korean Conflict, he graduated from Louisiana Tech University in 1953 with a B.S. in Civil Engineering. He is a registered professional civil engineer and a registered professional land surveyor.

He was employed by the Louisiana Department of Public Works in June, 1953 as a Project Engineer in the New Orleans District, served in various capacities through the years from resident engineer through the position of Assistant Chief Engineer. He assumed the position of Chief Engineer for the Department of Public Works on April 1, 1976. In 1977 the Department of Public Works became the Office of Public Works within the Department of Transportation and Development. In March, 1984 Theis became the Deputy Chief Engineer for the Department of Transportation and Development.

Theis has served on numerous committees related to water resources development, land use planning, and beach erosion; served on numerous committees for the National Council of Engineering Examiners; authored several articles published in regard to Louisiana coastal beach erosion.

He has served as consultant to U.S. Army Corps of Engineers, Chief of Engineers, Washington, D.C., on Shoreline Erosion Advisory Panel. Has also represented Louisiana on numerous engineering committees related to compact commissions and flood control, has served for a number of years as the Secretary-Treasurer for the Association of Levee Boards of Louisiana. He represented the state preparing and submitting briefs on flood control and water resources to the Mississippi River Commission, as well as United States Congressional Committees and Sub-Committees.

JASON R. GEE WINS LES SCHOLARSHIP

Plans for conducting the 1986-87 NSPE and LES Scholarship Programs have been formulated, and as a result of last year's shattering achievements, we are eagerly awaiting the upcoming National and State competitions. After evaluating the fruits of last years labor, the number of Louisiana students that either won or were in final competition for NSPE grants and scholarships surpassed even the most optimistic expectations. Specifically, three Louisiana high school seniors were awarded national scholarships by the NSPE Educational Foundation, and two other students finished second and third in other scholarship competition.

This overwhelming success was even more incredible considering the adversity confronting the Scholarship Committee. NSPE completely overhauled the previous scholarship format. More stringent eligibility requirements, modified grading and scoring scales, and a complicated activities and additional credits section caused tremendous concern and apprehension. The new requirements would, in all probability, severely curtail the number of interested and qualified Louisiana students from applying for these scholarships. This fear, fortunately, was unwarranted and subsequent to completion of the national competition, the ranking of the Louisiana students generated tremendous excitement and

Continued on page 20

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Jason R. Gee, center, winner of the LES Scholarship, is shown with Dean Hugh Thompson, left, Tulane University, and Robert Brossette, P.E., LES Scholarship Chairman.



Gerard T. Harris, NSPE Minority Scholarship winner.

New LES Members

NAME	GRADE	BRANCH	EMPLOYER
ALEXANDRIA			
Vincent R. Laborde	EIT		Department of the Air Force
BATON ROUGE			
Charles W. Pourciau	PE	EE	Ashton & Associates
Elizabeth L. Colandro	EIT		
Lisa A. Buehler	EIT		Stone & Webster Engr. Corp.
Peter N. Rogas	PE	CE	LA DOTD
Muluneh Azene	PE	CE	Southern University
Sherri H. LeBas	PE		LA DOTD
Stephen C. Clary	EIT	CE	Vulcan Materials
Edward R. Wedge, III	EIT		
Susan N. Douglas	EIT		ECOTECH, Inc.
Jill M. Reber	EIT		Dow Chemical
Bruce D. Richardson	EIT		Team Engerprises, Inc.
Kevin R. Boyle	EIT		Cos-Mar Co.
Wayne H. Ballew	PLS		
David M. Burholder	PE	CE	Dyer & Moody Inc.
Lonnie R. Vincent	EIT		Allied-Signal
BAYOU			
Warner J. Delaune, Jr.	EIT		
Prosper J. Toups, Jr.	PE	ME	Terr. Parish Waterworks
Stephen K. Davis	EIT		
LAFAYETTE			
Leroy J. Lasseigne	EIT	CE	
Keith J. LeBlanc	EIT	PE	
Thomas M. Crochet	PE	CE	Simon Freyou & Associates
Corinne L. Dupuy	EIT		
Jeffrey J. Hymel	EIT		
Jeff E. DePrato	EIT		
Mark S. Sibille	PE	ME	Frank's Casing Crew
Jon J. Jones	EIT	CE	U.S. Army Corps of Engineers
LAKE CHARLES			
Eric S. Conner	EIT	CE	Hackett & Bailey
Susanne C. Warren	EIT	ChE	Vista Chemical Co.
Scott B. Fetzer	EIT		Liquid Carbonic Speciality Gas Corp.
MONROE			
Melvin R. Corley	PE	ME	LA Tech University
Mark A. Jusselin	Student		
NEW ORLEANS			
Warren C. St. Cyr	EIT		
Margaret A. Cleary	PE	PE	Chevron USA, Inc.
Howard A. Chandler	EIT		
Katherine B. Truitt	EIT		LP&L
Daniel J. Roussell, Jr.	EIT		
Serigo N. Stasi	EIT		
Luis N. Garcia	PE	ChE	Tobinson & Garcia Energy Consult.
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Ralph T. Crist	EIT		Delgado Community College
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Continued from page 18

satisfaction on our part.

Although the majority of the scholarship recipients rejected, the out-of-state university scholarships, Gerard T. Harris, a student submitted by the Baton Rouge Chapter, did accept the NSPE Minority Scholarship, and is enrolled in the College of Engineering at Southern Methodist University. In addition, Celia L. Morris, an engineering student at Louisiana Tech University was selected by the NSPE Educational Foundation as the winner of the NSPE-Regional Undergraduate Grant.

On the state level, Jason R. Gee, a student submitted by the Bayou Chapter, is this year's recipient of the LES Scholarship. He is enrolled in the College of Engineering at Tulane University and will major in Biomedical Engineering.

The goals of this year's committee are four fold: (1) Conduct a successful NSPE High School Senior Scholarship Program, (2) Increase participation of in-state universities with ABET accredited engineering curricula in the NSPE Undergraduate Scholarship Program, (3) Increase funding of the LES Scholarship Program and (4) Expand Chapter Scholarship Program.

If you are interested in contributing to the LES Scholarship Program or would like to assist in this year's program, feel free to contact your Chapter Scholarship Chairman.

POTPOURRI

Continued from page 13

gineers available for voluntary disaster relief work in the event of major natural and manmade disasters in the U.S. and abroad.

The NSPE Board also expressed concern over the effects of truck size and weights on the safety and maintenance of our Interstate Highway System. A special task force has been appointed to study a broad range of highway safety and maintenance issues and will develop recommendations for Board adoption.

A number of awards were presented: NSPE Award winner—Marvin M. Specter, P.E., Hawthorne, New York; Young Engineer of the Year—Ned Cleland, P.E., Winchester, Virginia; Distinguished Service Award winner—Paul N. Doll, P.E., Jefferson City, Missouri; MATHCOUNTS Achievement Award Winners: small category—Southwestern Chapter, Wyoming; medium category—Southeast Area Chapter, Mississippi; and large category—Bluegrass Chapter, Kentucky; Most Active Auxiliary Award winners: Riverside/San Bernardino Chapter, California; Parkersburg Chapter, West Virginia; Harrisburg Chapter, Pennsylvania; Jefferson Chapter, Colorado; Piedmont Chapter, South Carolina; and overall winner St. Louis Chapter, Missouri.

The 1986-87 NSPE officers were installed: President, Joseph H. Kuranz, P.E.-L.S. (Wisconsin); President-Elect, Dr. Charles H. Samson, P.E. (Texas); Treasurer, Joe Paul Jones, P.E. (Texas); Vice President, Northeastern Region, Howard B. Sherman, P.E. (Rhode Island); Vice President, Southeastern Region, Hugh B. Stokes, Jr. P.E., (North Carolina); Vice President, North Central Region, Gayle H. Lewis, P.E. (Nebraska); Vice President, Western Region, Theodore O. Wright, P.E. (Washington); Vice President, Central Region, Harold Roffmann, P.E. (Illinois); Vice President, Southwestern Region, Dr. E. Walter LeFevre, P.E. (Arkansas).

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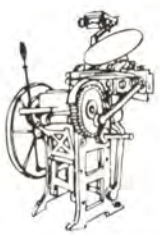
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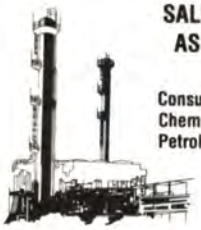

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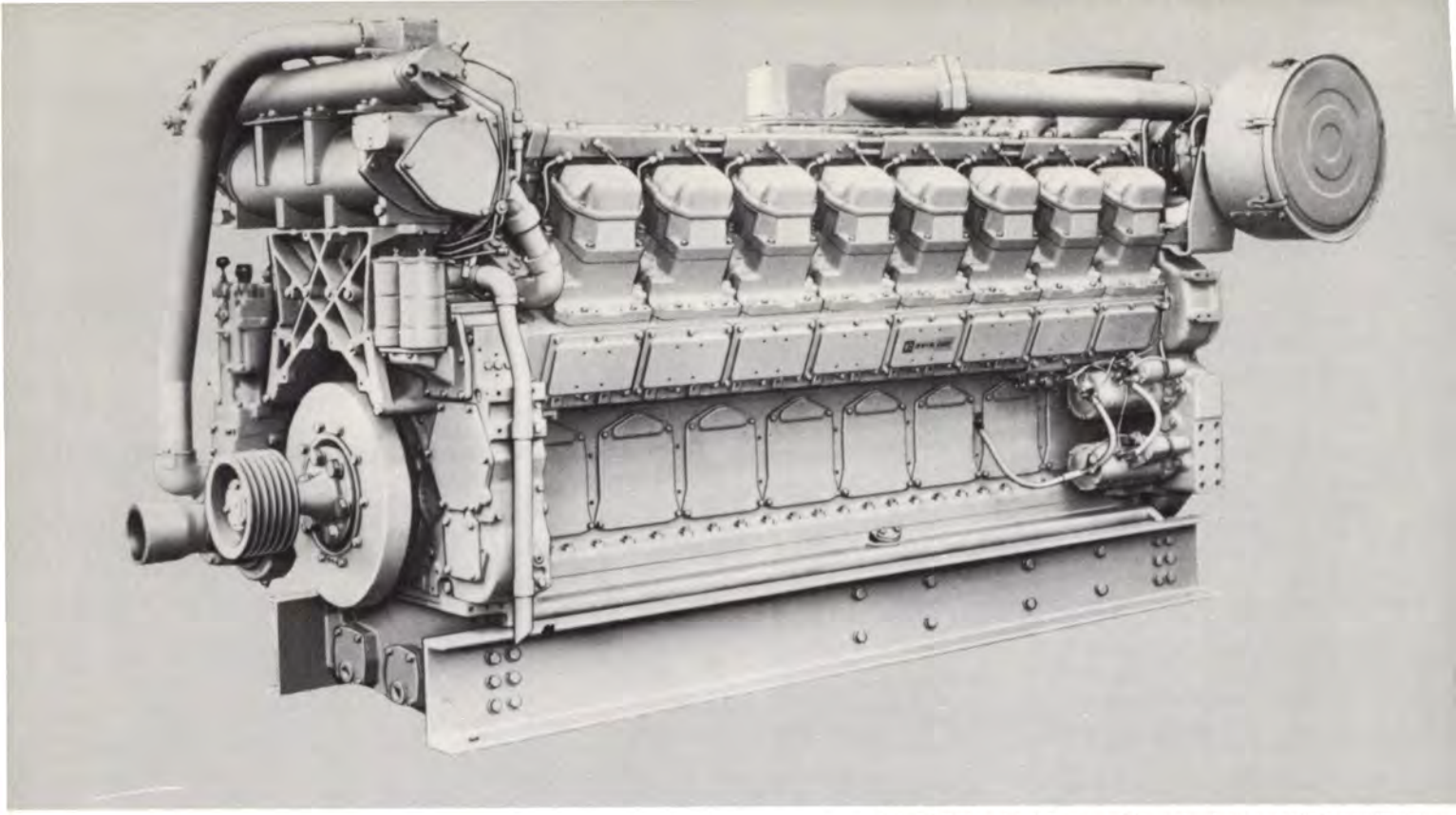

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DECEMBER, 1986

LOUISIANA ENGINEER



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Season's greetings from the Boards and Staffs of the Louisiana Engineering Society and the Louisiana State Board of Registration for Professional Engineers and Land Surveyors.

LOUISIANA ENGINEER

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Mid-Year Progress



Robert P. Blanche, P.E.
President
Louisiana Engineering Society

As the Society year enters December, I would like to report to you on our activities and progress. A number of your fellow members have been working to develop programs and complete many activities for the benefit of all of us.

The chapters have completed and submitted their nominations for recognition in our Honors and Awards program. The work now shifts from the chapters to the Honors and Awards Committee. This committee has the most difficult task of comparing the fine records of many of our fellow engineers and selecting the most deserving candidates to receive the six awards by which we acknowledge excellence and outstanding service to our profession. The Honor and Awards Committee's selections shall be presented for Board ratification at the December meeting of the Board of Direction. Those selected will be honored at our LES Awards Meeting in Monroe in March of 1987.

Likewise, the Engineers in Education and the Liaison Committee with the State Board of Registration, have developed a list of highly qualified fellow engineers to replace Dr. James Reeves on the State Board of Registration for Professional Engineers and Land Surveyors. The LES Board of Direction has the responsibility for submitting a list of qualified candidates to the Governor, from which he will make his appointment. This list shall be finalized and approved at the December Board of Direction meeting.

The Legislative Committee has been meeting and planning our upcoming legislative program. Items being considered include a Workmen's Compensation bill, a Hazardous Waste bill, participation in the Professional Coalition to support tort reform, and support of the Louisiana Professional Surveyors on their education bill. The Legislative Committee has also recommended a new legal counsel and will recommend a lobbyist, to assist in our legislative efforts, at the next Board of Direction meeting.

The Constitution and Bylaws Committee has been working hard and has recommended several changes to the Constitution, which will be voted on by the general membership this spring. They have also recommended a number of changes to the Bylaws which deal with the change in the Society year as well as with the addition of several committees. Their efforts have been extensive and professionally handled.

The Membership Committees within the chapters are actively pursuing new members. We have many engineers leaving our state due to the severe economic conditions, and we all need to work to rebuild our membership. Please contact a fellow engineer who is not a member and bring them to your next chapter function. Ask them to join our Society, and then follow up to see that they become active in your chapter.

All members who have not paid their 1986 dues by December 31, 1986 will be dropped from our rolls. If you have not paid, please do so in order that you can support our efforts on your behalf.

The MATHCOUNTS Committees throughout the state have been busy recruiting area schools to compete in this year's competition. The latest report from NSPE indicates that the Louisiana registrations are running ahead of last year. With continued effort in contacting and encouraging local schools to sign up, we should be able to have a record number of participating schools. Any member who wants to help in a stimulating experience with bright young people should be sure to volunteer to assist your chapter in conducting its local competition.

Finally, let me wish a Joyous Christmas and Happy New Year to you and your family from the entire Board of Direction and Staff of your Society.



Communicating With Your Outside Accountant

Don Thompson

Accountants and engineers both work with numbers, but they do not speak the same language. Most engineers are uncomfortable with numbers if they are preceded by a dollar sign, and accountants, in many cases, do not comprehend the difference between the intangibles of a practice and the tangible products of a manufacturer or distributor. They want to talk sales, cost of goods sold, and inventory.

These distinctions are significant, and heads of engineering firms that employ outside accountants should be aware of them and be sure that the accountant is aware of them. If you are paying the fiddler, you need to make sure that he is playing your tune. Insist on a report or statement format and verbiage that are meaningful to your operation. Do not be intimidated by your lack of knowledge of another profession. It is your firm that needs the information and is paying the bill.

Accrual vs. Cash

You should pay taxes on a cash basis and monitor your firm's performance on an accrual basis. If you pay taxes on an accrual basis, you will be giving Uncle Sam money that you still have not collected from your clients. If you measure performance on a cash basis, you are measuring only monies collected and paid out. What are the things you need to know about your firm's performance during a certain period — month, quarter or year to date? You need to know the amount of revenues earned and the expenses incurred to produce that revenue.

Gross Revenues vs. New Revenues

The first line of your operating statement (it may be called the profit and loss statement) should be gross revenues. This represents your total billing for this period. The second and third lines show the amounts of this billing that will be paid to subcontractors or reimbursible expenses. These should be subtracted from your gross revenues, since they are "pass-through" monies that you are handling for somebody else.

Unless you bill all projects through the last day of the period, you must figure your work in progress (WIP) and make an adjustment to the previous figure to know exactly the fees generated. Work in progress represents fees earned but not billed. After making this adjustment to the above figures you will establish your net revenue. This is a meaningful figure, since it represents the fees generated in-house and the dollars you have to work with to pay your people, cover overhead expenses, and make a profit. If your computer printout shows a percentage figure, this would be your 100 percent figure.

Direct Expenses

Direct expenses are expenses that are incurred on behalf of the project. Do not include any reimbursible expenses that were deducted from gross revenues. The key figure here is direct labor. This is raw salaries paid to employees for the time directly charged to projects. It does not include time charged to projects, or benefits such as paid holidays, vacations, sick leave, hospitalization, etc., but it does include any premium overtime.

Another item in this category is other direct expenses (ODE), such as printing costs, long distance calls, and mileage that is not reimbursible. A good test to determine if a charge is direct or indirect is to ask yourself, if we did not have this project, would we have incurred these costs? If they were incurred by the project, they are direct expenses.

A quick check of profitability can be measured by your effective (or net) multiplier. This figure is determined by dividing net revenue by direct labor. This figure should be monitored monthly along with your utlization rate. The utilization rate is the percentage of hours or dollars spent on direct labor in relation to the total expenditure for labor.

Indirect Expenses

Expenses that cannot be identified or charged to individual projects, along with depreciation, are listed under indirect expenses. These may be subdivided by disciplines, departments, and general administration. This will depend upon your organizational structure. It is very important that your accounting procedures parallel your organization.

Total indirect expenses divided by direct labor will indicate your overhead rate.

Profit

By subtracting total expenses (direct and indirect) from your net revenue, you establish your net profit or loss. If you are a corporation, dividing the net profit by net revenues will give you the profit percentage. If you are a proprietorship or partnership, the principals' draw (often considered salary) will not be included as an expense in calculating profit.

The Balance Sheet

The profit and loss (P&L) statement

Continued on page 20

LES Awards Meeting, March 18-21, 1987, Monroe, La.

The Monroe Chapter cordially invites you to attend the LES Awards Meeting to be held in Monroe at the Holiday Inn Holidome, March 18-21, 1987. Some of the activities include:

1. Tennis and golf tournaments on Wednesday, followed by a hosted Happy Hour.
2. Two Free Seminars: (1) "Better Oral and Written Communication Skills for Engineers" and (2) "Personal Computer Applications for Professional Engineers"
3. A fun night is planned for Thursday night. A skit by Louisiana Tech University students is planned. It will delight you.
4. Recognition to our outstanding engineers.
5. A Spouse's program to entertain and inform.

Come be with us for discussions affecting the engineering profession, for fun, food and fellowship.

PROGRAM

Wednesday, March 18

11:00 a.m. - 5:00 p.m.	**REGISTRATION**
11:30 a.m.	Golf Tournament, Pine Hills Country Club Calhoun, LA
2:00 p.m.	Tennis Tournament, Pine Hills Country Club Calhoun, LA
4:30 p.m.	MATHCOUNTS Meeting
5:30 p.m. - 7:00 p.m.	Happy Hour, Hosted by Monroe Chapter

Thursday, March 19

8:00 a.m - 5:00 p.m.	**REGISTRATION**
8:30 a.m. - 12:00 Noon	Seminar: "Better Oral and Written Communication Skills for Engineers" - Instructor: George West, Jr.
12:15 p.m. - 1:30 p.m.	Lunch - On your Own Nominating Committee Meeting
1:30 p.m. - 3:00 p.m.	Committee Meetings
3:30 p.m. - 5:30 p.m.	Practice Division Meetings
6:30 p.m. - 7:30 p.m.	Cocktails
7:30 p.m. - 8:30 p.m.	Hors D'oeuvres
8:30 p.m. - 9:30 p.m.	Skit - "Time Capsule 52 - The Way It Was" A skit depicting college life in the 50's. Presented by: Louisiana Tech University Students

Friday, March 20

8:00 a.m - 2:00 p.m.	**REGISTRATION**
8:30 a.m. - 10:15 a.m.	Seminar: "Personal Computer Applications for Professional Engineers" Instructor: Melvin Corley, P.E., Ph.D.
10:30 a.m. - 12:00 Noon	Committee Meetings
12:15 p.m. - 2:00 p.m.	Luncheon - Speaker: Frank Spooner, President, Spirit Petroleum Company
2:00 p.m. - 4:00 p.m.	Student Paper Presentation
4:15 p.m. - 5:30 p.m.	Louisiana Engineering Foundation Political Action Committee
6:00 p.m. - 7:00 p.m.	**REGISTRATION**
7:00 p.m. - 8:00 p.m.	Cocktails
8:00 p.m.	Awards Banquet

Saturday, March 21

8:00 a.m	Breakfast and General Membership Meeting
9:30 a.m.	LES Board of Direction Meeting

The Ladies Program will include a presentation by Christine Philley, entitled "Your Image Impact," dealing with projecting a good image through proper color, clothing and accessory choices. Ms. Philley is a Certified Color Consultant with Beauticontrol Cosmetics, Dallas, Texas. The ladies will also take a tour of the Follette Pottery Studio. Mr. Follette's work is sold in more than 70 galleries and shops throughout the country. Further details and prices will be published in the February issue of the LOUISIANA ENGINEER.

REGISTRATION COUPON - LES AWARDS MEETING
HOLIDAY INN HOLIDOME - MONROE - MARCH 18-21, 1987

Name _____ **Spouse's Name** _____

P.E. YES ____ **NO** ____

Chapter: _____

CLIP OR REPRODUCE & MAIL TO:

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

		No. Tickets	Amount
*PREPAID Discount Registration Fee	$35.00		
Registration Without Prepayment	$60.00		
**Daily Registration Fee	$12.00		
Spouse Registration	$10.00		
Thursday Seminar	FREE		
Thursday Early Bird	$10.00		
Friday Seminar	FREE		
Friday Luncheon	$ 7.50		
Friday Banquet	$13.00		
Saturday Breakfast	$ 6.00		
	TOTAL		

*Prepaid discount applies only if registration & payment is received one week prior to convention

**Daily registration fee is applicable for one day attendees only

☐ Payment Enclosed ☐ Will Pay At Registration Desk

MAKE CHECKS PAYABLE TO LES

PLEASE NOTE: A PARTIAL REFUND WILL BE MADE IF CANCELLATION IS RECEIVED FOUR DAYS PRIOR TO CONVENTION

THIS COUPON MUST BE RECEIVED BY FEBRUARY 25, 1987

Hotel Reservation Card
Louisiana Engineering Society
Holiday Inn Holidome
March 18-21, 1987

(Please type or print)

Name _____
(Last) (First)

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Holidome
P. O. Box 7860
Monroe,
LA 71203

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City, State _____ **Zip** _____ **Tel.** _____

Arrival Date _____ **Departure Date** _____

	1 Adult	2 Adults
Standard (2 beds)	$47.00	$53.00
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Standard-Domeside	$50.00	$56.00
King-Domeside	$52.00	$58.00
King-Minisuite-Dome	$55.00	$61.00

All reservations will be held until 6:00 p.m. unless guaranteed. Refund given if cancellation made 7 days prior to beginning date of conventions.

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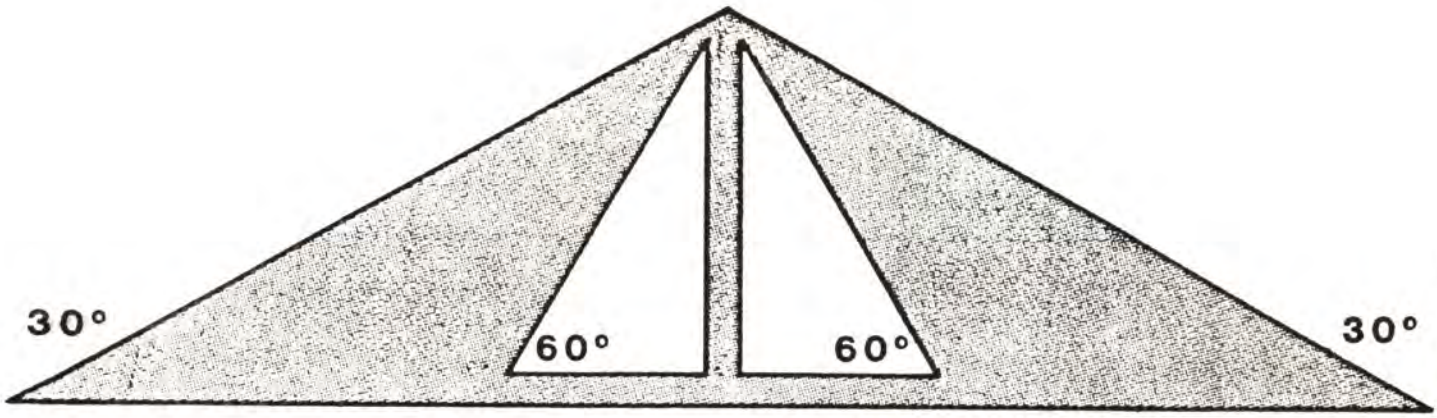

A New Drafting Triangle

Kirk Carney

A simple, plastic triangle, which is ingenious in design yet so uncomplicated that a child can understand and use it, is expected to revolutionize the field of isometric drafting, according to its 27-year-old developer, Milton G. Arceneaux, Jr., of LaPlace, Louisiana.

To back up his claim, Arceneaux, who is a draftsman for a major New Orleans firm, has assembled an impressive list of testimonials from a number of his peers and others in the field, including several local professors.

The idea for the new device grew out of Arceneaux's frustration at constantly having to turn and flip the traditional triangle whenever he was called upon to do an isometric drawing.

An isometric drawing is produced on special drafting paper and appears to be three-dimensional. Such drawings are widely used by plumbers, ship-builders, those in the oil and gas industry, interior designers and others.

"Using this triangle, I can get the drawings finished quicker and easier than ever before," Arceneaux says. "With my design, there is no more turning and flipping to find the correct angle. The triangle easily slides back and forth on the parallel bar to reach the desired position and I never have to lift it off my paper."

"It's really quite simple," Arceneaux explains. "All the necessary angles are there, right in front of you."

It wasn't that simple four years ago when Arceneaux first came up with the idea.

"After cutting out the first triangle from a piece of Plexiglas in my garage, I realized that I had really discovered something unique, or at least I thought so," Arceneaux remembers.

For the next two years, Arceneaux spent a great deal of time and several thousand dollars, seeking a patent for his idea.

"First, I had to get an attorney," Arceneaux continues. "He told me it was very important to get something down on paper, to date it and to have it witnessed. Such documents are heavily relied upon by the U.S. Patent Office."

Arceneaux also needed a release from his company, a patent search, and finally, an application.

"After all of this, it takes a year to hear from the Patent Office," Arceneaux says, "and then there are no guarantees."

In June of 1984, Arceneaux finally received a patent for his Iso-triangle. His next step was finding a company to produce it and then determining how to market the finished product.

"As I talked to various company representatives," Arceneaux remembers, "I learned different things about how it should be done. For instance, this triangle is a special size, meaning special packaging bags and boxes had to be developed and produced."

He finally settled on a firm, handling all of the negotiations on the telephone and by certified mail. He received his first shipment of triangles in March of this year.

A born-again Christian, Arceneaux says he was led by God each step of the way.

"Rev. David Long, one of the ministers at my church, really encouraged me from the beginning," Arceneaux explains. "He was the one who put me in touch with David Mahoney whose company is handling the sales end."

Mahoney is a sales representative for City Blueprint and Supply Co. of New Orleans which has exclusive marketing rights, both wholesale and retail.

"We're really excited about this product," Mahoney says. "It's got tremendous sales potential and we believe it's just a matter of a short time before it really takes off."

Mahoney has already contacted several college professors about using the Iso-triangle in their courses next semester. He has also begun circulating the product to various contacts in the drafting profession.

"The response has been overwhelming," Mahoney says. "So far I've received no negative comments. Everyone I've showed it to wants one."

Arceneaux and Mahoney plan to market the Iso-triangle locally at first, but expect to go statewide before the end of the year. If the response is what they believe it will be, they hope to be selling the triangle nationally within two years.

Constructed of heavy-duty acrylic, each Iso-triangle has precision-made edges to give perfect accuracy. Individually they sell for $7.60, with discounts available for multiple orders.

Arceneaux is a native of New Orleans, a graduate of Bonnabel High School and Southeastern Louisiana University where he earned his degree in drafting technology. He and his wife Toni reside in LaPlace with their two children.

POTPOURRI

Leta Bueto
Executive Director
Louisiana Engineering Society



PETITIONS FOR CONSTITUTIONAL AMENDMENTS

Several petitions have been submitted to the Louisiana Engineering Society. The written petitions were signed by at least sixty (60) or more voting members in good standing, with at least fifteen (15) from each of at least four (4) different chapters of the Society. This is your letter of notification of these amendments. The master will be acted on at the LES General Membership Meeting scheduled for Saturday, March 21, 1987 at the Holiday Inn Holidome, Monroe, LA.

Petition 1

We, the voting members of the Louisiana Engineering Society, do hereby petition for an amendment to the Constitution of the Society to change Article III, Section 2, to read:

Section 2.
Paragraph 1 - No Change

The Board of Direction shall select and the President shall appoint not later than six (6) months before the end of the Administrative Year, three Past Presidents of the Society as its representatives to the Nominating Committee, one of which will act as Chairman of the Nominating Committee. Each representative of the Board of Direction shall have one vote and each Chapter President, or his appointed delegate, shall have one vote for every two hundred (200) Chapter members, or part thereof, with Chapter membership to be determined as of the close of the previous Administrative Year. The nominees of the Committee shall be approved by a majority of those votes cast. A quorum of the Committee shall be 75% of the total possible votes.

Paragraph 3 - No Change

The Chairman of the Nominating Committee shall report the names of the nominees to the Board of Direction not less than five (5) months before the end of the Administrative Year.

At any time prior to four and one half (4-½) months before the end of the Administrative Year, any twenty-five (25) or more Members may send to the Secretary-Treasurer additional nominations for any elective office for the ensuing year, such nominations to be signed by the Members.

If any person nominated shall be found by the Board of Direction to be ineligible for the office for which nominated, or should a nominee decline such nomination, his name shall be withdrawn. The Board of Direction may fill any vacancies that may occur in the list of nominees up to the time the ballots are mailed.

The list of nominees shall be submitted to the membership by letter ballot postmarked or hand delivered at least four (4) months before the end of the Administrative Year.

Petition II

We, the voting members of the Louisiana Engineering Society, do hereby petition for an amendment to the Constitution of the Society to change Article III, Section 3, to read:

Section 3. The Officers and Directors shall be elected from the membership of the Society by a plurality of the votes cast. The Officers shall serve a term of one administrative year and the State Directors two administrative years. The president shall be ineligible to succeed himself for that office.

If only one National Director is permitted, he shall be elected from among the Past Officers and Board members, and shall be a member of the National Society of Professional Engineers. He shall be elected for a two year term and may succeed himself without limit. If two or more National Directors are permitted, the current President of the Society shall serve as the second National Director. Each of the other National Directors shall be elected and shall serve in the same manner as specified above for the first National Director.

If a successor for an Officer or a Director has not been named by the end of his term in office, he will continue to serve until a replacement is selected.

Petition III

We, the voting members of the Louisiana Engineering Society, do hereby petition for an amendment to the Constitution of the Society to change Article III, Section 4, paragraph 3 ONLY.

Section 4. (Paragraph 3 only)

In the case of a vacancy in the office of Second Vice-President, occasioned by resignation or otherwise, this position shall be filled by the Board of Direction within sixty (60) days of the vacancy with the appointee completing the remainder of the Administrative Year.

The changes: To amend the Constitution and Bylaws as effected by the change in the administrative year and the fiscal year of the Society.

Petition I and II - Commentary - Changing the time periods as to when the Nominating Committee is selected, on through the time periods for election of officers. The time periods that are proposed would place the nominations and elections of officers and directors during the same months that we are presently accomplishing those items.

Petition III - Commentary - It is proposed that the office of Second Vice-President not remain vacant because the Second Vice-President needs to chair the Long Range Planning Committee and be in charge of the Annual Meeting.

IN MEMORIAM

The Louisiana Engineering Foundation's Memoriam program is a most appropriate way to recognize and honor our deceased engineers and loved ones. Contributions are tax deductible.

A Memoriam Plaque hangs in the Foundation Headquarters building. The name of the deceased and date of death is engraved on individual brass plates.

Send name of deceased, date of death, name and address of survivors, and name and address of donor. Make checks payable to LEF. Cards of acknowledgement are sent to the family of the deceased.

Let us not forget our loved ones.

Continued on page 15

A couple of interesting court decisions crossed my desk recently. In the first one, it appears that the contractor was protected by the statute of limitations.

Contractor Not Liable For Camera Man's Fatal Accident at Stadium Built Nine Years Earlier

Contractor, liability for accident. *Hall v. Rapides Parish School Board*, 491 So.2d 817 (La. App. 1986).

A contractor that had built a sports stadium was not responsible for the death of a cameraman who fell from a ladder while coming down from the roof of the press box at the stadium, an appellate court in Louisiana has ruled.

On September 30, 1983, Willie Hall was filming a football game from the roof of the press box at the stadium of Peabody Magnet School in Alexandria, Louisiana. While descending a ladder from the top of the press box, he fell 60 feet to the ground. He died a few hours later as a result of the injuries he had received in his fall.

Hall's survivors filed a suit against the local Rapides Parish School Board, which owned the school's stadium. They also sued Ratcliff Construction Company, the contractor that had built the stadium, claiming that it had been negligent in the construction of the stadium, and had failed to inspect and discover the dangerous condition of the premises.

Ratcliff asked the trial court to dismiss the suit against it, and the court did. The Louisiana Court of Appeal upheld that judgment, noting that Ratcliff began construction in 1973, and that it completed the structure in August 1974, when it was accepted by the school board.

If Ratcliff every owed any duty of safety to the public, said the court, that duty ended long before Hall's accident, which occurred nine years after the completion and acceptance of the construction.

* * *

This case is much more significant in that it sets a precedent of sorts in situations where an architect or engineer has **not** *been hired to provide construction inspection. This was an Appeals Court decision.*

Architect of Defective Skating Rink Not Liable to Owner for Damages Caused by Flooding

Architect, liability for flooding. *Weill Construction Company, Inc. v. Thibodeaux*, 491 So.2d 166 (La. App. 1986).

An architectural firm has been absolved of liability for water damages to a skating rink. The Louisiana court ruled that the firm's drainage design was not faulty, and that it had no duty to supervise the work of a contractor who failed to follow specifications in pouring the concrete foundation.

In 1978, Skater's Playground, Inc. hired the architectural firm of Mestayer, Darby & Partner to design an indoor roller skating rink, and it hired Weill Construction Company to build it.

During construction drainage problems arose, and Mestayer offered suggestions on how the problems might be solved. Skater's took no action to improve the drainage, however.

In 1979 there was a flood caused by vandals opening fire hydrants and the floor of the rink was damaged. The following year heavy rains caused further damage which was traced to a joint created because Weill had poured the concrete foundation in two layers, instead of a single layer called for on the plans.

When Skater's withheld the $35,500 due on Weill's contract, the contractor sued to obtain its money. The owner then sued the architect for faulty architectural design, and inadquate supervision of the construction work.

The court ruled in favor of the architect. According to the trial court, the damage to the rink was caused by Weill's faulty construction of the concrete slab, and by Skater's failure to take action to correct the drainage problems after it had discovered their existence.

Skater's appealed to the Louisiana Court of Appeal, but without success. The appeals court upheld the trial court's decision in favor of Mestayer. The court noted that the architect had not been hired to provide day-to-day supervision of the construction work, and thus could not be held liable for Weill's failure to pour the concrete as called for in the plans and specifications. Skater's also claimed that Mestayer failed to examine the drainage characteristics of the site to determine that the location of the building would impede the natural flow of water, and to make provisions that would prevent water from accumulating against the foundation wall. The court, however, concluded that the architect's drainage design was not faulty or defective. Because of this lack of negligence, the court reasoned, Skater's could not recover its damages from the architect.

* * *

Sidney B. Sanders, CPU, Alexander & Sanders Insurance Agency, Inc., Baton Rouge, has sent the following memo on the subject of written contracts, asbestos liability insurance.

Importance of Written Contracts

There was a time when a handshake agreement between design professionals or with their clients was sufficient. That time has passed, along with the days when a design professional was responsible only to his client. In today's legal climate, the design professional finds himself subject to lawsuits from every direction.

Only a well-constructed written contract can scope and define the services intended, thus providing some protection against claims from areas where the design professional never intended to be involved and should have no responsibility.

A great deal of time has been spent by most of the professional associations (ACEC, AIA, NSPE, ASCE, etc.) in developing standard forms of agreement for many contractual circumstances. These forms may not be perfect in a given situation, but they all have a number of items in common. They attempt to provide protection to the design professional by defining areas of responsibility consistent with those responsibilities you nor-



mally think of as yours, and by excluding those areas of responsibility (such as job site safety) that properly belong elsewhere. Without such written contractual terms, the design professional frequently has great difficulty and expense extricating himself from claims originating from such sources.

Design professionals are frequently asked to provide partial professional services or extraordinary services. These requests generally require special consideration for modification of your contract form. For example, if you are requested to provide design without construction observation (obviously at a lower fee), your contractual agreement needs attention.

I think that every insurance company now providing Professional Liability for design professionals asks what percentage of your projects are completed under professional association agreements. Your answer to that question is likely to have dramatic impact on your acceptability as an insured or on the cost of your coverage. Whether you are acting as subconsultant or prime professional, your answer to that questions will be important.

No contract form can eliminate all lawsuits, even if unjustified. But the proper contract can make it infinitely easier and less expensive for you to be extricated from the suit.

We cannot over emphasize the importance of this matter. Please let us know if we may be of any assistance.

Asbestos Liability Insurance

Information has reached us that United Coastal Insurance Company, recently formed to write General Liability for asbestos removal contractors, is now offering Errors and Omissions insurance for asbestos exposures to design professionals.

The company operates on a surplus lines basis and is unrated by Best's.

Our information indicates the policy offers $500,000 limit with $25,000 deductible at a $40,000 minimum premium. The rate charged applies to asbestos related fees. It appears the minimum premium would cover fees of about $1,000,000.

The policy is, of course, "claims made" form and offers only thirty days extended discovery. Only claims reported while the policy is in force would be covered.

There would be a great deal to consider for any design professional prior to embarking on asbestos related projects and purchasing this type of insurance.

For more information contact:
Sidney B. Sanders, CPU
Alexander & Sanders
9613 Brookline Aveune
Baton Rouge, LA 70809
(504) 924-1371

* * *

HSEP Is Alive and Well

The High School for Engineering Professions, domiciled at Scotlandville Magnet High School, Baton Rouge, Louisiana, was established in 1983. The school has functioned quite admirably since then. The following is a portion of a letter from David J. Gardner, Chairman of the HSEP Advisory Council, to Council member Morgan Watson (representing CEC/L on that council). It explains some of the facets of the program.

Incidentally, Morgan Watson has stepped down from the HSEP Advisory Council after several years of extraordinary effort. CEC/L wishes to thank Mr. Watson for his unselfish work with HSEP.

"In 1983 the High School for Engineering Professions (HSEP) was established at Scotlandville Magnet High School to provide a preparatory program for the college-bound student who wishes to major in some phase of engineering. I am happy to report that we are completing our third successful year of this program, and that the outlook continues to be excellent. Our enrolling freshman in 1986/87 will be 83, which will bring total HSEP rolls to 240. We have graduated our first senior class, and our students have been accepted by a very impressive list of universities.

"HSEP was developed as a partnership between the East Baton Rouge Parish School Baord and local industry through the Greater Baton Rouge Chamber of Commerce. Industry and the school board have cooperatively funded the special equipment needs of the program. An Advisory Council, composed of local business people, educators and parents, provides guidance for the program and administers donations which support these special needs. In 1985 the Council and school staff designed and outfitted an engineering laboratory. This course stresses practical application of engineering principles and exposes students to career opportunities in each of the major engineering disciplines.

"Another major focus during the year was to increase community awareness of engineering school and the work of the Advisory Council. These activities included commemoration of national Engineering Week, which was initiated through a televised presentation to the school board by the Council, students and Superintendent of Schools Dr. Arveson. Activities during the week included engineering competitions and special presentations to students by professional societies. In addition to the educational benefit, a good deal of positive media exposure resulted from these activities.

"HSEP has graduated its first senior class this year. Our students have been accepted by engineering schools across the country, including Georgia Tech, West Point, the U.S. Naval Academy, LSU and Louisiana Tech. We sponsored a reception for the students, parents, staff and school board for the purpose of honoring our graduating seniors and contributors on May 21. The reception was attended by over 300 people. Parents, educators and students spoke very positively about the program and were very appreciative of the support given by the business community. A poster which listed our contributors was displayed at the registration table."



NÔTRE MÉTIER

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

Registration Board Develops Laws and Rules Questionnaire For Applicant

The Louisiana State Board of Registration for Professional Engineers and Land Surveyors has since its inception made strides to ensure that registrants are competent and, in fact, do not pose a danger to the public. To this end, the Board has adopted and promulgated rules not inconsistent with the constitution and laws of this state, which were reasonably necessary for the proper performance of its mandated duties. These Board Rules supplement the statutes, and together they provide the guidance for regulation of engineering and land surveying in our state.

One aspect of implementing the law emphasized specific requirements in the evaluation of an applicant's ability and knowledge of professional engineering and professional land surveying. This evaluation is currently accomplished through the use of the national examination developed by the National Council of Engineering Examiners (NCEE). Professional Land Surveyor applicants in addition to the NCEE examinations, must also pass an examination specifically addressing the surveying laws of Louisiana.

Another aspect which has received little emphasis in the past is the development of a means whereby an applicant's knowledge of the laws and rules may be evaluated prior to his registration. After much thought and reviews of how other state registration boards have addressed this neglected area, the Board has developed a questionnaire comprised of fifty (50) questions taken from the registration laws and Board rules governing engineering and surveying registration in Louisiana.

Each Professional Engineer and Land Surveyor applicant will be required to successfully complete this open book questionnaire by correctly answering at least 80 percent of the questions. Applicants will be mailed a questionnaire, answer sheet, and copies of the laws and board rules after initial processing of their application has begun. The questionnaire will then be completed by the applicant and returned to the Board within thirty days of its receipt. However, under no circumstances will the scheduling of the applicant for NCEE examinations be held up pending successful completion of the questionnaire; however, final registration as a Professional Engineer or Professional Land Surveyor will not occur until the questionnaire is successfully completed.

The Board currently plans on implementing this program during the first quarter of 1987. The Board anticipates that such a program will increase the registrant's knowledge of the laws and rules and will result in a corresponding decrease in complaints.

Applicants and future applicants are therefore encouraged to read and be familiar with all the Louisiana Laws and Board Rules relating to the practice of engineering and land surveying in Louisiana.

National Council of Engineering Examineers (NCEE)

The Louisiana Board continues to be well represented in the Council. The NCEE is the national organization that the Engineering and Surveying Registration Boards of all of these United States plus the District of Columbia, Virgin Islands, Guam, Mariana Islands, and Puerto Rico are members of for the purpose of coordinating board activities.

The NCEE provides the national examination to the member boards. It maintains a model law and model rules for all boards to strive for, thereby making comity or reciprocity possible between states. It helps the member boards in evaluating foreign education. It maintains a record of verification program for professional engineers facilitating registration in other states, and it facilitates the exchange of information regarding enforcement and board office operations. The national office is located in Clemson, South Carolina adjacent to Clemson University.

The Council maintains a small staff which reports to the Board of Directors. The Council has fifteen (15) working committees staffed by Board Members and Executive Secretaries (or Directors) from the various member boards. The committee assignments for the current year (1986-87) for Board Members or staff of the Louisiana Board are:

Chris Demopulos, PE/PLS — Member, Advisory on Council Activities Committee.

Mr. Demopulos will continue to serve on this committee although he is no longer a member of the Louisiana Board. He was appointed a member of this Committee prior to his leaving of the Board.

H. L. Henry, PE — Consultant, Uniform Examinations and Qualifications for Professional Engineers Committee.

Paul L. Landry, PE — Chairman, State Board Secretaries Committee.

E. J. McNamara, PE/PLS — Member, Finance Committee.

Robert W. Parks, PE — Member, Uniform Examinations and Qualifications for Professional Engineers Committee.

James W. Reeves, PE — Chairman, International Relations Committee.

Rodger D. Phelps, PLS — Member, Uniform Examinations for Land Surveyors Committee.

Francis C. Roy, PE — Chairman, Principles and Practice Examining group of the Uniform Examinations and Qaulifications for Professional Engineers Committee; Member, Examination Review Committee; and NCEE (Alternate) Representative to the Engineering Accreditation Commission of the Accreditation Board for Engineers and Technology.

The Louisiana Board is well represented in NCEE in that its members and staff are active participants in over half of the National Council of Engineering Examiner's Working Committees.

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:

1987

Jan. 27	July 28
Mar. 24	Sept. 22
June 2	Nov. 17

EXAMINATION SCHEDULE

	SPRING Apr. 11, 1987 Apr. 16, 1988	FALL Oct. 31, 1987 Oct. 29, 1988
Fundamentals of Engineering Examination (8 hrs.)	X	X
Fundamentals of Land Surveying Examination (8 hrs.)	X	X
Principles and Practices of Engineering (8 hrs.) Civil (Including Structural & Sanitary), Mechanical, Chemical, & Electrical	X	X
Agricultural, Industrial, Metallurgical, Mining & Petroleum		X
Principles and Practices of Land Surveying (4 hrs.)	X	X
Laws and Procedures of Land Surveying (4 hrs.)	X	

Apply at least *six* to *eight* months prior to an examination. Board approval *must* be given for anyone to be scheduled for an examination.

The applicant and the Board depends upon information provided by third parties in the processing of an application, therefore no assurance can be given that one will be scheduled for a specific examination.

Registration Board 1986 - Roster

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As long as the supply lasts-

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

1055 St. Charles Ave.
Suite 415
New Orleans, LA. 70130
Tel. (504) 568-8450

Spring 1987 Engineering Management Courses

FACULTY

The courses will be taught by regular faculty members of the LSU College of Business Administration and Engineering or by able, qualified professors from other universities in the state.

CERTIFICATE

Upon completion of four acceptable courses and a certificate application form, the participant will be awarded a Certificate in Engineering Management by the Division of Continuing Education. An Advanced Certificate will be awarded to students who take a total of six courses.

COST

The fee per participant is $300 for each course and includes the cost of textbooks.

REGISTRATION

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

Classes will be organized Wed., Jan. 7, 1987 in Room 503, LSU Medical Center, New Orleans - 7:30 PM, on Thurs., Jan. 8, 1987, in Room 3136 CEBA Bldg., LSU, Baton Rouge - 7:30 PM, and on Mon., Jan. 12, 1987 at 7 PM in Room 104 of the Business-Education Building at LSU Shreveport.

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

AVAILABLE COURSES

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

Please complete the following form and return it to the address below if you are interested in the program. (Classes will begin during the week of Jan. 19, 1987.

Name _____

Address _____ Phone _____

City & State _____ Zip _____

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

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

COURSES OFFERED

( ) Management
( ) Project Management
( ) Engineering Economy
( ) Finance
( ) Automation
( ) Statistics
( ) Human Relations
( ) Cost Estimating
( ) Microcomputers

LOCATIONS

( ) Baton Rouge
( ) New Orleans
( ) Monroe
( ) Alexandria
( ) Shreveport

I cannot attend on the following nights:
M____T____W____Th____

LES Board of Direction Minutes

SEPTEMBER MEETING

The September meeting was held in Alexandria with 20 Board members, 8 guests and the LES staff present.

1. The July 1986 and August 1986 financial statements were accepted subject to the annual audit.
2. The funds collected for the education study will be transferred from the LES general fund to designated funds for future educational study needs, etc.
3. The 1985-86 annual audit was received and will be discussed at the next meeting.
4. Proposed changes to the Constitution and Bylaws were presented by the Constitution and Bylaws Committee. These amendments will be in order for discussion after 30 days.
5. The Louisiana Engineering Society will continue its membership in the Professional Legislative Coalition. Arthur DeFraites will continue to represent the Society with Robert Jones serving as an alternate. After reviewing the liability reform issues, the Legislative Committee believes that the three most important issues to be enacted are:
   (1) Joint and several liability; (2) Frivolous suits; and (3) Caps on non-economic damages at $150,000.
6. The membership submitted a new membership brochure and application to the Board requesting approval on the new documents. The Board approved the new documents with printing subject to the availability of funds.
7. The Society will participate in the NSPE Recruitment Program. NSPE will solicit new members from the registered engineers, engineers-in-training, and land surveyors residing in Louisiana who are not currently members.
8. The PEE will draft a letter for President Blanche's signature supporting registration for all engineering faculty holding the rank of associate professor and above and who teach engineering design or be progressing toward registration in a reasonable time.
9. The screening committee for the PEE division to replace James Reeves on the State Board of Registration was appointed. They are Stuart Ferrell, Lawrence Mann, and Paul Hale.
10. PEPP increased their annual dues from $2.00 to $3.00.
11. LES will extend an invitation to the NSPE Educational Foundation to hold its 1990 National Scholarship Selection Meeting in New Orleans. The state LES will share in one half of the cost of hosting the function not to exceed $300.00.
12. A letter was drafted to the Director of the Louisiana Department of Civil Service requesting the term "journeyman" be deleted from the description of work levels for Professional Engineers.
13. A letter will be drafted for the president's signature to the State Ethics Commission on an issue concerning the Director, Anatoly Hochstein, and his employment with both the Louisiana State University Ports and Waterways Institute and his part-time position as assistant vice-president of a consulting engineering firm doing business in the State of Louisiana.
14. The LES Board voted to support an amendment to the Registration Law in the 1987 session. The amendment would provide for one (1) 9 year term, with each term beginning on September 1 of the initial year, regardless of the appointing date. The amendment would further provide that the terms of office of those current Board members who were appointed for only a 6 year term be extended for a total of 9 years, or to August 31 of the new expiration year, as appropriate. This will be turned over to the legislative committee for proper handling.
15. The LES Board supported two rules changes by the State Board of Registration: (1) The first rule change deals with the examination. The new rule will cut the time in half for the retaking of the examination after failure; and (2) The second rule change deals with redefining the word "reports."
16. A committee was appointed to review the Society's needs for a new computer.
17. The Executive Committee was authorized to evaluate and purchase a new automobile for the Society subject to the cost of acquiring such a vehicle while the interest rates are favorable.

OCTOBER MEETING

The North Lake Chapter hosted the October 31 meeting in Mandeville. There were 16 board members, 2 guests, and the staff present.

1. Robert Wang, P.E., was welcomed as the new president for the Lafayette Chapter. William Wallace, P.E., will be serving as the Lake Charles Chapter President.
2. The September 1986 financial statement was accepted subject to the annual audit.
3. The Executive Director reported the purchase of a 1986 Chevrolet Caprice. The automobile was financed for 36 months at 2.9%.
4. The 1985-86 audit was accepted as prepared by the CPA.
5. The LES Board of Direction selected the law firm of Rubin, Curry, Colvin & Joseph to serve as legal counsel for the Society.
6. A number of items was presented by the legislative committee. They are as follows:
   a. Workmen's Compensation - the committee recommends that LES pursue legislation again this year subject to review of the whole LES package.
   b. Hazardous Waste Bill - recommends we pursue legislation to amend bill from "gross negligence" to "ordinary negligence."
   c. Louisiana Society of Professional Surveyors education bill - support in concept.
   d. Support any move by the State Board of Registration to change the law so no exemptions will be permitted in the registration law.
   e. Support the continued membership of the Professional Insurance Agents on the Professional Legislative Coalition
   f. The committee has the amendment to the Board of Registration Appointment and Terms under advisement and will report back to the Board.
7. On October 13, LES representatives met with Dr. Kerry Davidson, Associate Commissioner for

Academic Affairs, State Board of Regents, and the Regional Committee who reviewed the State's six undergraduate programs in engineering. Representatives had a chance to discuss with the team the profession's concerns on engineering education in the State.

8. The Board acted on the proposed amendments to the Constitution and Bylaws Committee. All three proposals to the Articles were accepted and will be presented to the general membership meeting in Monroe on March 21, 1987 for approval. If approved, they will be submitted on ballot to all voting members in May of 1987. Several changes to the Bylaws were approved by the Board. All are housekeeping changes to coincide with the proposed changes to the administrative and fiscal year of the Society.
9. The Department of Civil Service has changed their term for the description of work levels for Professional Engineers to an acceptable term by the Engineers in Government.
10. The Board received the draft of a letter to the State Ethics Commission concerning Anatoly Hochstein. The letter will be edited and prepared for the president's signature.
11. Ritter reported that efforts are being made to revive the PAC. Nominees for trustees for PAC will be on the agenda for the next Board of Direction meeting.
12. A memo concerning MATHCOUNTS accounting was distributed. It was requested that all the chapters abide by the guidelines as set forth in the memo.
13. Louisiana will host the 1987 Southwestern Regional Meeting in New Orleans in September 1987.
14. $1,000 will be contributed to the NSPE Scholarship Program.
15. Dr. Walter LeFevre, NSPE Southwestern Regional Vice-President, will be our guest for the Honors and Awards Meeting scheduled for March 18-21, 1987 in Monroe, LA.
16. The President will prepare a letter to the Republican Delegation objecting to the suggestion of competitive bidding for highway projects.
17. Wernicke presented a program which he believes may be beneficial to engineers in Louisiana. The program is called Technology Referral Network and is simply a business resource which links universities, colleges, private laboratories and consultants into a single statewide network. President Blanche requested that Wernicke develop a specific plan of action to present to the Board of Direction.
18. The University of Kansas National Asbestos Training Center has been producing seminars on asbestos abatement and removal for some time. They provide a trailer for people to receive training. The latter part of this year the trailer will be in our area if any chapter or university would like to review the trailer and information presented. Louisiana Tech University is looking into this matter.

POTPOURRI
Continued from page 9

Beautiful flowers last such a short time and the Louisiana Engineering Foundation with its programs to serve engineering will last forever.

REVIEW OF LOUISIANA SOLID WASTE REGULATIONS IN PROGRESS

The Solid Waste Division of the Office of Solid and Hazardous Waste in the Department of Environmental Quality is in the process of reviewing the Louisiana Solid Waste Rules and Regulations, according to George Cramer, Division Adminsitrator.

A thrity member advisory group met on November 12, 1986, with five subcommittees formed and a chairman for each selected.

The subcommittees, chairmen and contact numbers are, respectively;

Geotechnical: Narendra Dave (504) 342-8950

Engineering: Bill Endris (504) 342-1229

Standard Permits & Financial Responsibility: Tim Knight (504) 342-4674

Minor Permits, Agricultural Use, and Exemptions: Paul Miller (504) 342-1216

Siting and Permit Flow Process: Barbara Theriot (504) 343-9098

Public hearings concerning the revisions are expected to be held in New Orleans, Lake Charles, and Ruston prior to January 1, 1987. Copies of the revisions are available for $8.00 each from the State Lands and Natural Resources Building, 625 North 4th Street, 6th Floor, Baton Rouge.

For further information, contact subcommittee chairmen or the Solid Waste Division at (504) 342-1216.

LOUISIANA TECH UNIVERSITY STUDENT RECEIVES NSPE GRANT

Mrs. Celia K. Morris, a Petroleum Engineering student at Louisiana Tech University, received a $1,000 NSPE-Regional Undergraduate Grant. NSPE offers only six NSPE Regional Grants for juniors, one per each NSPE Administrative Region.

Mrs. Morris attended Southern Arkansas University in Magnolia as a parttime student while working full time. She finished all her math courses, physics and chemistry, and electives at SAU with a 3.96 GPA. She enrolled in Louisiana Tech University in September 1985 to complete her studies.

Mrs. Morris is married with two children, takes a full course load at Louisiana Tech and commutes 160 miles daily to attend classes. She maintains an overall grade-point-average of 3.968 with 100 semester credit hours completed.



Mrs. Celia K. Morris recieves a $1,000 NSPE grant from Dr. Bobby E. Price, LES First Vice President and Director of Engineering Undergraduate Studies at Louisiana Tech University.

TWO-DAY CONTRACT DOCUMENTS SEMINAR

The Engineers Joint Contract Documents Committee (EJCDC) presents the eighth in a series of tutorial programs designed to update engineers, owners, attorneys, contractors and others on the scope of new and recently revised contract documents and forms produced by EJCDC and on issues raised by court decisions affecting engineering practice and contract administration. The seminar will be held February 19-20, 1987 at the Hyatt Regency Pheonix at Civic Plaza in Phoenix, Arizona.

The program will feature:

• A comprehensive review of the 1984 edition of the Owner-Engineer Agree-

ment with emphasis on major changes in concept and wording since the 1979 editions;

• A discussion of 1986 White Paper entitled "Limitation of Liability in Design Professional Contracts";

• A review of the 1985 edition of the Engineer-Associate Engineer, Engineer-Architect and Engineer-Consultant Agreements;

• An analysis of the 1983 edition of the Standard General Conditions of the Construction Contract; and

• A detailed review of the new, first-of-its-kind "Focus on Shop Drawings", designed to alert all parties involved in the construction process to the common pitfalls and problems of shop drawing submission, review and approval.

John R. Clark, Esq., a long-time legal adviser to EJCDC, will lead the discussions. Time will be made available for discussion, questions and answers between the audience and a panel of EJCDC members.

As part of the registration fee, seminar attendees will receive a complete set of current documents. These include such items as a commentary on the revised general conditions, guide to the supplementary conditions, certificate of substantial completion, application for payment, instructions to bidders, notice to proceed and completely new performance and payment bond forms. The cost of this two-day seminar is $245. Those sending more than one attendee will be charged a reduced registration fee of $170 for each additional attendee.

For more information, please contact EJCDC, c/o American Consulting Engineers Council, 1015 15th Street, N.W., Suite 802, Washington, D.C. 20005, (202) 247-7474.

GEOSYNTHETICS '87 CONFERENCE UNDERWAY

Sixty-three reviewed papers on civil engineering applications of construction fabrics and membranes will highlight the Geosynthetics '87 Conference. The conference is sponsored by the Industrial Fabrics Association International and being held under the auspices of the American Society on Geosynthetics and the International Geotextiles Society, February 24-26, 1987 at the Clarion Hotel in New Orleans, LA.

Technical sessions will consist of reviewed papers on the following geotextile and geomembrane topics: **Unpaved Roads and Paved Roads, Slopes and Walls, Laboratory and Model Evaluation, Embankments Over Weak Soils, Design/Construction, Transmission, Durability, Filtration, QA/QC, Material Selection, Testing,** and **Other Geosynthetic Applications.**

The conference will also include a panel discussion on "Durability", led by moderator Robert M. Koerner of Drexel University. Panelists will represent geotextile, geomembrane, users and owners concerns, and chemistry concepts.

In addition, there will be a commercial trade exhibition representing manufacturers and distributors of geotextiles, geomembranes and geogrids, testing laboratories and seam seal equipment manufacturers.

Prior to the conference, short courses on geotextiles and geomembranes will be held, as will a special post-conference advance course on designing with geosynthetics.

Further information on conference papers, registration, and exhibits are contained in the conference's Bulletin No. 2 through the IFAI, 345 Cedar Building, Suite 450, St. Paul, Minnesota 55101, (612) 222-2508, TWX: (910) 563-3622.

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THOMAS L. JACKSON INSTALLED DISTRICT DIRECTOR OF ASCE

Thomas L. Jackson, P.E., a member of the La. Engineering Society, was installed as District 14 Director of the American Society of Civil Engineers (ASCE) at the Society's Fall Convention in Boston. Jackson is executive vice president and a member of the Board of Directors at Burk and Associates, Inc., a consulting engineering, planning and environmental firm located in New Orleans, Louisiana.

Jackson took office on October 29 during ceremonies at the Society's Annual Business Meeting. Jackson will represent ASCE's District 14 consisting of Alabama, Arkansas, Louisiana and Mississippi to the Board of Direction, ASCE's governing body, from 1986 to 1989.

A Fellow of ASCE, Jackson served as president of the Louisiana Section from 1981-1982 and also held the positions of vice president, secretary-treasurer, and director. Jackson was chairman of District 14 Council from 1984-1985 and served as chairman of the Society's 1982 National Convention held in New Orleans.

A resident of Metairie, Louisiana, Jackson graduated from Tulane Univeristy with a bachelor's degree and master's degree in enginering.

Founded in 1852, ASCE is the oldest national engineering society in the country and currently has over 104,000 members.

L.E.S. RETIREES MEET

The retired members of the New Orleans Chapter of the Louisiana Engineering Society met at Noon at the New Orleanian at 1205 St. Charles Avenue, on October 28. After lunch there, the group heard a talk on the sophisticated instrumentation being used to detect and record the effect of varying winds on the new cable-stayed vehicular bridge over the Mississippi River at Luling, Louisiana.

The talk was delivered by Mr. C. J. Sperry, Jr. of Tulane University's School of Engineering. Professor Sperry holds degrees from Clemson University and the University of Illinois and is a recognized authority on the causes and effects of sound. After giving his talk he very capably fielded questions from the audience of engineers of varied disciplines.

The group continues to draw increasingly large numbers at its monthly meetings and welcomes others to attend.



JAY GUILLOT NAMED VICE PRESIDENT OF RILEY

The Riley Company of Louisiana, Inc., Consulting Engineers, Ruston, Louisiana, is pleased to announce the promotion of John A. (Jay) Guillot to the office of Vice President. Mr. Guillot is a registered Professional Engineer and Land Surveyor in the State of Louisiana. He has both a Bachelor of Science Degree and a Master of Science Degree in Civil Engineering from Louisiana Tech University and has 9 years of practicing civil engineering experience. He is a member of the Louisiana Engineering Society, National Society of Professional Engineers and the American Society of Civil Engineers.

Mr. Guillot is married to the former Susan Sanders of Ruston. The couple have two children, Katie, age 4, and Kristen, age 2.

IN MEMORIAM VICTOR J. BAILLIET, P.E.

Victor J. Bailliet, P.E., past General Manager and Board Member of Caldwell Sugars Cooperative of Thibodaux and Consulting Engineer for many South Louisiana sugar mills and the Bank of Cooperatives for the past 35 years, died September 10, at the age of 82.

Mr. Bailliet was well known and highly respected in the Louisiana and international sugar industry. He had consulted for many sugar mills in Africa, South America, Central America, and the French West Indies.

He was born in Paris, France, in 1904 where he obtained his technical schooling and worked for several years. He married Olga M. Blanc in 1934 and then moved to Guadeloupe, French West Indies to supervise the construction of an electrical power plant. He began his sugar career in 1937 in Guadeloupe after completion of the power plant. In 1945 Mr. Bailliet moved his family to Louisiana where he became Chief Engineer at Magnolia Sugars in Schriever. Two years later he began his tenure at Caldwell Sugars Cooperative in Thibodaux.

Mr. Bailliet was a registered Professional Engineer in Mechanical and Electrical Engineering. He was a member of the Louisiana Engineering Society and an honorary member of the American Society of Sugar Cane Technologists.

Mr. Bailliet was active in the French Community of Louisiana and received the Croix de Merite National from the

Continued on page 20

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French government in 1977 in recognition of his many achievements and contributions.

In his honor, the Victor J. Bailliet Scholarship in Sugar Technology has been established at Nicholls State University in Thibodaux.

IN MEMORIAM
COL. FREDERICK H. FOX, P.E.

Col. Frederick Hewitt Fox, a Life Member of the Louisiana Engineering Society expired on August 20, 1986. He was 92 years of age. Fox was born in Chattanooga, Tennessee, and was a resident of New Orleans for 65 years. He received his bachelor's and master's degrees in engineering from Ohio State University. In 1959 he retired as head of Tulane's Civil Engineering Department after 38 years of service. He was a retired Army colonel and was in the Corps of Engineers in both world wars. He received the British Distinguished Service Medal. He was a member of Tau Beta Pi honorary engineering fraternity, the Round Table Club, the American Society of Civil Engineers, the American Society for Engineering Education, the U. S. National Guard Association, and the Army & Navy Club. He was president of the Louisiana Engineering Society and appeared in Who's Who in Engineering.

IN MEMORIAM
C. HAROLD HART, P.E.

C. Harold Hart, P.E., president of Danmar Engineering Corporation recently expired. He was a registered professional Civil Engineer and Land Surveyor in Louisiana and Mississippi. His career as a civil engineer included positions with Delaurel and Moses Consulting Engineers, Jefferson Parish Department of Roads and Bridges, Gulf South Engineers, and the U.S. Army Corps of Engineers.

Mr. Hart earned his degree in Civil Engineering from Tulane University in 1952. He was president of the engineering class.

Mr. Hart joined the engineering staff of the New Orleans District Army Corps of Engineers in 1969 and was appointed the Chief of the Levee Section in September 1972. As Chief of the Levee Section he was responsible for the planning and the design of levees and floodwalls for the Mississippi River and Atchafalaya Basin flood control systems, and Lake Pontchartrain, New Orleans to Venice, and Larose to Golden Meadow Hurricane Protection systems. He was awarded a special act award for his meritorious service during the 1973 flood on the Mississippi River.

Mr. Hart was an active member of the American Society of Civil Engineers, the National Society of Professional Engineers, the Louisiana Engineering Society, the Tulane Engineering Society, the American Public Works Association, the Society of American Military Engineers, and the American Concrete Institute.

COMMUNICATING
Continued from page 5

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Don Thompson is a management consultant based in Atlanta, Georgia.

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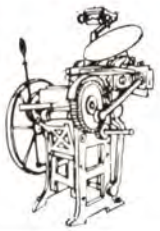
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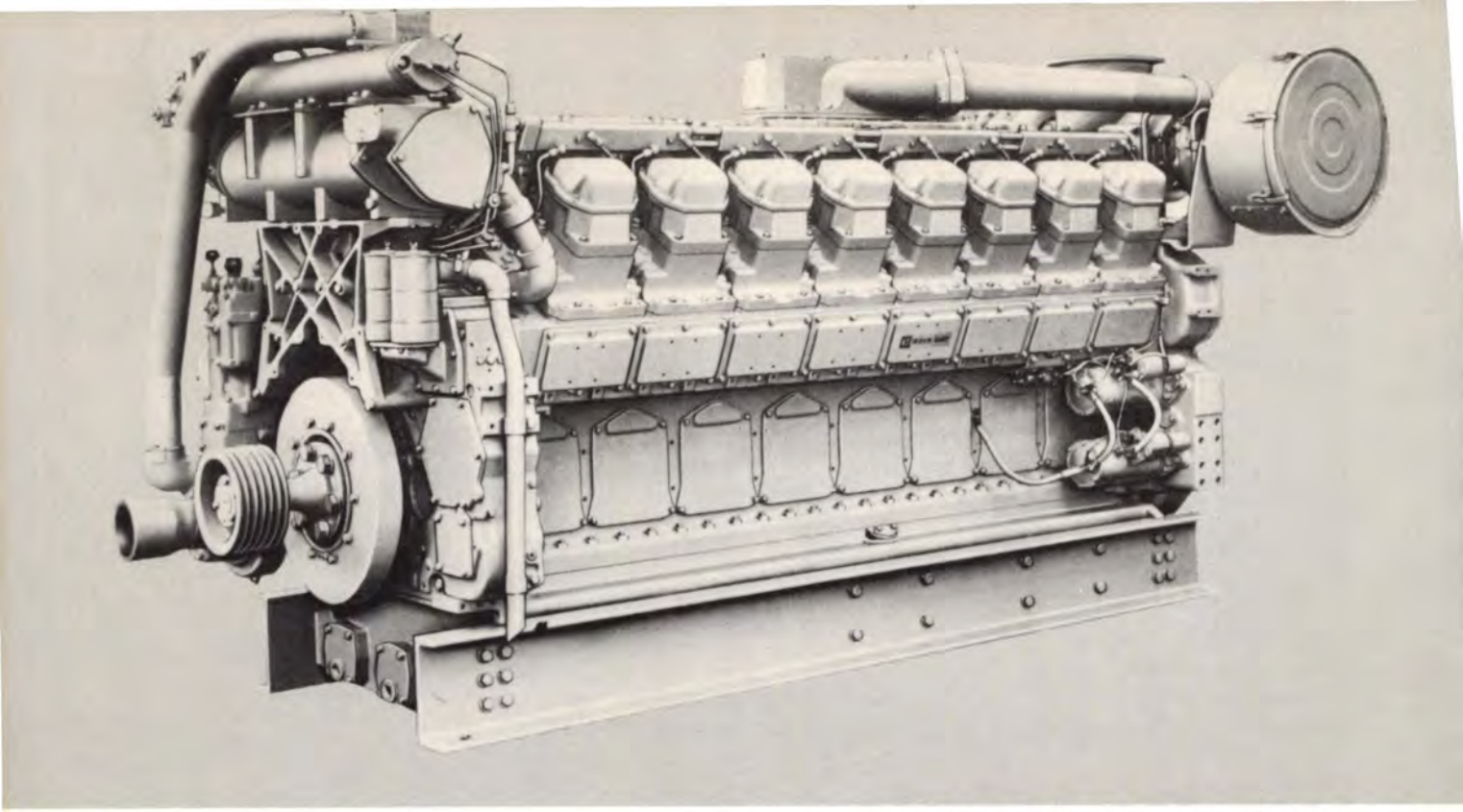

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