

Don't forget to check out the Department of Civil and Environmental Engineering Web Site!

www.ce.lsu.edu



- Find out the latest information about the CEE Department
- Contact faculty and staff
- Get information about graduate and undergraduate programs
- Find out the most up-to-date information about student organizations
- and much more!

Contributions to the newsletter are always welcome. If you have news that would be of interest to other CEEs or your classmates, please send it to us so it can be included in a future edition.

Tel: (225) 578-8442 Fax: (225) 578-4945

Please contact Dr. George Z. Voyiadjis for more details.

Civil and Environmental Engineering
Louisiana State University
3418 CEBA Building
Baton Rouge, LA 70803-6405

ADDRESS SERVICE REQUESTED

Non-Profit Org
U.S. Postage
PAID
Permit No. 733
Baton Rouge,
LA

LOUISIANA STATE UNIVERSITY

December 2001

Inside this Issue

- 1 Message from the Chairman
- 1 Hall of Distinction
- 4 Geotechnical Research Group
- 6 Research Experience for Undergraduates
- 7 Announcements & Awards
- 9 Undergraduate Student Advisory Committee
- 9 ASCE
- 10 Departmental Campaign
- 11 Alumni Update

Civil and Environmental Engineering
Louisiana State University
3418 CEBA Building
Baton Rouge, LA 70803

Civil and Environmental Engineering Newsletter

Message from

**Dr. George Z. Voyiadjis, Boyd Professor,
Interim Chairman and Bingham C. Stewart Distinguished Professor**

It is with great pleasure to announce to you that the Civil and Environmental Engineering Department has established a Hall of Distinction to recognize individuals who have made stalwart contributions to the profession. Five charter members were inducted in December of 2001.

The honorees were recognized in a well attended banquet held in the University Faculty Club in Baton Rouge on December 6, 2001.

Criteria for election include distinguished professional achievement and service to Civil and Environmental Engineering. Inductees will have made substantial impact in their field and to the Department of Civil and Environmental Engineering. Induction is not limited to Departmental Alumni.

In honoring these individuals, the Department intends through them to recognize all those who contributed to Engineering excellence. The five charter members are listed below.

Hall of Distinction Charter Members

ARA ARMAN



Ara Arman, born in Istanbul, Turkey, is Senior Vice-President of Gulf Engineers and Consultants, Inc. Arman received his Bachelor of Science degree from Robert College School of Engineering, Istanbul, Turkey in 1955, and Master of Science from University of Texas, Austin, Texas in 1956, all in civil engineering. Upon graduation, he joined Louisiana Department of Highways as an Assistant District Laboratory Engineer of the Testing and Research Section, and was promoted to District Laboratory Engineer in 1958, and Soils Design Engineer in 1961. In 1963, he started his stellar career at Louisiana State University as an Assistant Professor of Civil Engineering. He was promoted to Associate Professor in 1967 and full Professor in 1970. He also served as the Assistant Director of the Division of Engineering Research 1965-1976.

In 1976, Arman became the Chairman of the Department of Civil Engineering. He was appointed Associate Dean for Instruction and Undergraduate Studies in 1980, a position he served for seven years. He effectively participated in the legislative establishment in 1986 of the Louisiana Transportation Research Center, LTRC, jointly sponsored by Louisiana State University and Louisiana Department of Transportation and Development. Arman served as the founder and director of LTRC until 1989 when he retired from LSU to join Woodward-Clyde Consultants as Senior Consultant and Vice-President, and later as Vice-President and Principal until 1998.

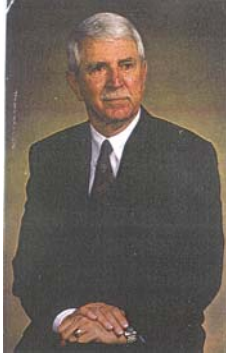
Arman is a professional civil engineer registered in the state of Louisiana with over 40 years of experience in the field of environmental, civil, geotechnical, and geosynthetics engineering. He is a member and officer of many national and international professional and honorary engineering organizations. He has in excess of seventy publications in the field of geotechnical engineering, chemical stabilization of soils, use of geosynthetics as applied to transportation, ports, airports, industrial sites and other facilities. They have been published in technical journals and books in several countries including the USA, Great Britain, France, Turkey, Switzerland, Sweden, USSR, Germany and Japan.

Continued on Page 2

Arman is a fellow of the American Society of Civil Engineers and is the 2001 recipient of the prestigious A.E. Wilder, Jr. Award for Outstanding Service of the American Consulting Engineers Council.

In 1963, Arman was married to former Claudia Carr of Bogalusa, Louisiana, and they have two children Eric and Michelle. Arman presently resides in Baton Rouge, Louisiana.

ELVIN DANTIN



A native of Golden Meadow, Elvin Dantin received a Bachelors and Masters Degree in Civil Engineering from LSU in 1949 and 1952 respectively. He then served the department as an assistant professor for 6 years, before moving west to pick up a Ph.D. from Stanford University. In 1962 he returned to his home state to resume his service to the Department, a career that would span 30 years.

Dr. Dantin was one of the forward-looking faculty in the College. He not only found time to contribute to the fine undergraduate program that the Department is known for, but also broke new ground expanding the Department's research output. An early director of the College's Division of Engineering Research (1961-63), Elvin was the founding director for the Louisiana Water Resources Research Institute (1964-84) and the EPA Center of Excellence for Hazardous Waste Research (1981-84). He laid taproots that nourished the young incoming faculty as the University made the difficult transition towards a Research I status. In 1984 he "retired", received a nice chair from the Department and moved to sunny Florida.

Retirement, hardly, Elvin then became a Founding Dean and set about the creation of a College of Engineering at the FAMU/FSU campus in Tallahassee. During a ten year period Elvin added the establishment of three ABET accredited departments, hired thirty faculty, and established approved Masters degree programs in four departments. Slowing down a bit, in 1993-94, Elvin settled back as chairman for the FAMU/FSU Department of Civil Engineering for over a year before finally accepting his second retirement. The college honored Elvin's contributions through the establishment a Named Professorship (The Elvin Dantin Professor of Engineering) in his name.

Somewhere along the way, the sounds of the waves slapping along the Grand Isle coast line has drawn Elvin and his wife Ruth back to their roots. The Department welcomes Elvin and Ruth back to Louisiana and looks forward to Elvin's advice and hopefully a bunch of invitations to the newly planned Grande Isle "retirement" camp.

L. LANE GRIGSBY



L. Lane Grigsby, a native of Louisiana, is Chairman of the Board of Cajun Contractors. Grigsby graduated with a BSCE degree from LSU in January 1967 after having transferred from the United States Military Academy at West Point. Initially, Grigsby went to work with Pyburn and Odom Consulting Engineers in Baton Rouge, but "decided that technical engineering didn't fit his personality." He joined Crown Builders as a field engineer in civil construction and progressed to Executive Vice President in 1970. Crown Builders was subsequently acquired by merger with a German engineering group and became Lurgi-Knost, Inc. Grigsby opened the east coast office of Lurgi-Knost in Jacksonville, FL, but returned to Baton Rouge as Manager of Purchasing until the firm dissolved in April 1973.

At that time, Grigsby started Cajun Contractors and Engineers, Inc., in partnership with Bob Mixon. Over the ensuing years, Cajun has grown to become one of the largest construction companies in Louisiana. Since 1990, Cajun Constructors has been listed among ENR's Top 400 Contractors.

Grigsby is founder and stockholder of the Atlantic Company of America, a nationally recognized historical restoration business that was responsible for the restoration of the Washington Monument. He is also the founder of the Mapp Construction, Inc., a commercial contractor based in Baton Rouge.

Grigsby has been active in the Associated Builders and Contractors having served in every elected position and twice received ABC's Man of the Year Award. He has also served in leadership roles in a variety of organizations including the Baton Rouge Chamber of Commerce; the Louisiana Association of Business and Industry (LABI); the Baton Rouge Metro Airport Commission; and the Medical Center Board of Directors. Since 1994, he has served on the Board of Directors of the Shaw Group, the 3rd largest EPC firm in the world. He has also been active in a variety of fund raising efforts to benefit LSU.

Alumni Update

The Department of Civil and Environmental Engineering wants to know where life has taken you. Who are you working for and what is your title? Have you received any recognition for your work? Are you working on an especially challenging project?

Please complete the following information and attach any additional comments you may have. Space permitting, we would like to use photos of you, your family or your latest project.

Please e-mail your information with attached photos to ceseal@lsu.edu. Or, you may mail your submission to: Civil and Environmental Engineering, LSU, 3418 CEBA Building, Baton Rouge, LA 70803-6405.

CEE ALUMNI INFORMATION

Name: _____ Degree: _____ Year: _____

Home Address: _____

Home Telephone: _____ Email: _____

Position Title: _____

Firm: _____ Business telephone: _____

Business Address: _____

Your News: _____

Alumni Corner

Steve Crane, BS in 1979, MS in 1981, recently completed 15 years of service with Montgomery Watson Harza, one of the world's premier environmental engineering and construction firms. Steve has been a Vice President of the firm since 1990 and currently manages the company's Sacramento Federal operations, a subunit of the firm with annual revenues of \$10 million. He resides in Folsom, CA with his wife, Nadine, and two children, Kathleen, 16, and Stephen, 13.

CIVIL AND ENVIRONMENTAL ENGINEERING DEPARTMENTAL CAMPAIGN

The Department of Civil and Environmental Engineering is continuing a fundraising campaign to enrich and enhance programs in the department. Your donation will enhance the Departmental Enhancement Fund supporting new initiatives so that we may continue to produce top-quality engineers.

Our goal is to build an endowment of \$400,000 and an annual \$50,000 supplement to support the purchase of new lab equipment, computers and software, support of students, and support of faculty activities at professional meetings and conferences.

Any amount will be greatly appreciated; however, donors giving \$200 a year for five or more years or over \$1000 initially will receive special recognition in our departmental newsletter and on the Departmental Enhancement Fund plaque displayed in the department. Company matching funds will also be acknowledged. Please consider the CEE department this year in your annual giving.

DONOR INFORMATION:

(please check)

\$10,000 or more \$5,000 to \$9,999 \$1,000 to \$4,999
 \$500 or more \$200 to \$499 Less than \$200

I pledge \$_____ per year for the next _____ years to the CEE Departmental Enhancement Fund for a total of \$_____.

Please make your checks payable to the "CEE Enhancement Fund"

NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

TELEPHONE: _____ BUSINESS _____ HOME _____

FAX NUMBER: _____ E-MAIL: _____

GRADUATION DATE: _____ DEGREE: _____

EMPLOYER: _____

Please mail donations to: Civil and Environmental Engineering
Louisiana State University
3418 CEBA Building
Baton Rouge, LA 70803-6405

You will be contacted by our development coordinator to confirm your pledge and support.

THANK YOU

Grigsby currently serves on advisory boards of the LSU College of Engineering and the Departments of Civil and Environmental Engineering and Construction Management.

Grigsby is married to Bobbi Fickes and they have three children, Tami, Todd, and Tricia.

Mr. Grigsby was inducted as a member of the LSU Engineering Hall of Distinction in 1997.

CHESTER PAUL SIESS



Mr. Chester Paul Siess was born in Alexandria, LA in 1916. He received his BS in Civil Engineering from LSU in 1936. Mr. Siess worked for the Louisiana Highway Commission from 1936-1937. Then from 1937-1939, he worked as a Research Assistant and Graduate Student at the University of Illinois at Urbana-Champaign, where he received his masters in civil engineering in 1939. In 1939 Siess worked on the Chicago Subway and later for NY Central Railroad in Chicago.

Mr. Siess then did full-time research in the Department of Theoretical and Applied Mechanics at UIUC, beginning in 1941. In 1949, he joined the CE department at UIUC and did research on reinforced and prestressed concrete and highway bridges. He taught two graduated courses on Behavior of Reinforced Concrete Members and Structures. Siess was head of the CE department from 1973 until retirement in 1978. He did extensive consulting, chiefly on structural failures, and in connection with research programs of various government agencies. He was active in the affairs of American Concrete Institute (ACI). He chaired several committees and was President in 1974. Siess was a member of the Building Code Committee from 1952 to 1995, and chaired it from 1980-1983.

He became a member of the Nuclear Regulatory Commission's Advisory Committee in 1972. He is also a member or chairman of various committees of Highway Research Board, American Society of Civil Engineers (ASCE), ASTM, and many more.

Mr. Siess has received various honors, including National Academy of Engineering, 1967, Honorary Member of ASCE in 1978, Honorary Member of ACI in 1969, and became President of ACE in 1974. He received the UIUC College of Engineering Alumni Honor Award for Distinguished Service in Engineering in 1985, LSU Engineering Hall of Distinction Charter Member in 1979, Chi Epsilon National Honor Member in 1994, and The Nuclear Regulatory Commission Distinguished Service Award in 1987.

BINGHAM C. STEWART



Bingham Cushman Stewart was born in Cheneyville, Louisiana, on February 24, 1905. He moved to Baton Rouge, where he attended Louisiana State University and received a Bachelor of Science Degree in 1926.

He worked for his father's construction company until 1932, when he became employed by the Louisiana Highway Commission. In 1936, he moved to New Orleans to work with W. R. Aldrich & Co., General Contractor, and in 1938, he was hired by Henry and Arthur Boh as general superintendent of Boh Bros. Construction Company.

In 1960, when Boh Bros. became incorporated in the State of Louisiana, Mr. Stewart was named Vice President and Director and served in that capacity until 1989, when he was named Vice Chairman of the Board of Directors. In 1998, Mr. Stewart celebrated his 60th anniversary with the company.

On November 17, 1993, Mr. Stewart was named to the Louisiana Highway Hall of Honor and was honored as an outstanding citizen for his involvement in the state, highway, street, bridge, and transportation systems.

Mr. Stewart served as Chairman of the Building Committee of the New Orleans federation of Churches and of the Rayne Memorial Methodist Church, of which he is a member. He also served as President of the Board of Trustees of Methodist Hospital and is a member of the New Orleans Rotary Club, the Louisiana Engineering Society, and the New Orleans Country Club.

Academic/Research Group on Geotechnical and Geophysical Systems

Dr. Mehmet Tumay

The Geotechnical and Geophysical Systems group represents perhaps the oldest and one of the most established subdisciplines with trans-disciplinary specialties in Geotechnical, Geomechanical, Geoenvironmental and Geophysical Systems (G4S). During the period 1973-2000, the graduate program in G4S conferred 31 MS and 24 Ph.D. degrees to students from Brazil, Chile, China, Greece, France, Hong Kong, India, Iran, Jordan, Korea, Malaysia, Nigeria, Palestine, Taiwan, Turkey and U.S., and played host to 10 post-doctoral fellow. The G4S alumni currently serve in well-respected professorial, research and key administrator positions at prominent universities, government agencies and industry in the US and abroad. The G4S faculty have enjoyed consistent research funding exceeding \$7 Million from 1980 to the present from the National Science Foundation, Federal Highway Administration, U. S. Corps of Engineers, Environmental Protection Agency, French Ministry of Research & Industry, Office of Naval Research, LA DOTD, and others. Minimally invasive in situ characterization of the geomedia, mechanics of granular and clay soils, geo-tomography, electrokinetic soil remediation, novel soil stabilization, engineering properties of soft soils represent recent research emphasis/funding of the G4S group.

Through continuous grants (Tumay) from National Science Foundation and Federal Highway Administration unique testing methodologies/technologies have been developed for minimally invasive in situ characterization of geomedia. The Research Vehicle for In Situ Testing and Support (REVEGITS), Continuous Intrusion Miniature Cone Penetration Test System (CIMCPT) and the LSU Calibration Chamber (LSU-CALCHAS) are nationally/internationally acclaimed. The current NSF funded research is on "Inclined Piezocone Penetration Aspects: Theoretical Interpretation and Experimental Verification."

<http://www.coe.lsu.edu/facilities/revegits-cimcpt.html> (video)

<http://www.coe.lsu.edu/facilities/lsu-calchas.html>



a. REVEGITS and CIMCPT



b. CIMCPT inside view



c. LSU-CALCHAS



d. Electronic cone penetrometers

The research on "Mechanics of Granular Materials (MGM)" (Alshibli) investigates the constitutive behavior of Ottawa sand under very low effective stresses in Microgravity Environment. MGM was flown twice aboard the STS-79 and STS-89 NASA Space Shuttle missions. The project is sponsored by NASA/ Marshall Space Flight Center.

The objective of another project, "Support Study for the Assessment of In-Situ Test Technology for Construction Control of Base Courses and Embankments" (Alshibli) is to assess the use of non-destructive in-situ tests [Dynamic

Undergraduate Student Advisory Committee Formed

As part of its ongoing efforts to maintain an active dialog with undergraduate students and involve them in the continual improvement process needed to comply with accreditation requirements, the Department has established a Student Advisory Committee. The Committee has representatives at the sophomore, junior and senior classes from both the Civil Engineering and Environmental Engineering programs. The current membership of the Committee is as follows:

Melanie Lestelle
Jolie Dufrene
Lloyd Bourgeois

Kathryn Rhea
Misty Daigle
Scott Regan

Lisa Rodriguez
Emery Layton
Aimee Blazier

Tentative goals established for the Committee are as follows:

1. Assist the Department to evaluate the undergraduate programs for the purpose of identifying need for improvement and the means to improve the programs. This is a necessary component of the assessment process required for accreditation.
2. Provide a confidential means for the students to raise issues of concern to the Chairman (Voyiadjis) and the Coordinator of the Undergraduate Programs (Seals).
3. Collaborate with the Departmental administrators to promote the programs, student organizations, and student activities.
4. Assist the Department to help communicate to the student body the importance of course assessments and graduating senior assessments.
5. Assist the Department to maintain its facilities, especially the Germano Center.

The Committee has been asked to establish its by-laws and encouraged to develop and pursue its own goals. From time to time, the Committee will hold meetings with students to identify issues of concern and report their activities.

ASCE

LSU American Society of Civil Engineers has begun a new year, and participation is already up. At the second meeting of the fall semester over 60 students were in attendance. The new officers for the 2001-2002 year are already hard at work to make this one of the best years for Civil and Environmental Engineering students.

Coming up in the spring semester we are going to try having some of our meetings at lunchtime on Wednesday to try to increase faculty participation and to make it easier to get speakers. We will also be gearing up for the Concrete Canoe and Steel Bridge Competition. This year's Deep South Regional Student Conference will be held at Southern University, here in Baton Rouge. This should be a great opportunity for all LSU ASCE members to participate in all of the competitions and activities.

More information about our activities and officer contact information is located on our web page at www.ce.lsu.edu/~ASCE. Also check out the new link called Student Resumes. This link allows access to our student members' resumes, so if you are looking for an employee, be sure to look on the LSU ASCE web page.

Dr. Mehmet T. Tumay and Dr. Murad Abu-Farsakh, “*Inclined Piezocone Penetration Aspects – Theoretical Interpretation and Experimental Verification*,” National Science Foundation, \$182,312.

Dr. Mehmet T. Tumay, “*Identifying Research Opportunities With the Turkish and Worldwide Geotechnical Community: A Workshop Associated With the 2001 Istanbul Conference (CICSMGE)*,” National Science Foundation, \$37,000.

Dr Ivor van Heerden, Deputy Director of the LSU Hurricane Center and Associate Professor –Research, Civil and Environmental Engineering, was recently awarded a five-year \$3.65 million grant by the Louisiana Board of Regents to established a Health Excellence Fund Center at LSU. The project is titled “*Assessment and Remediation of Public Health Impacts Due to Hurricanes and Major Flooding Events*”. The aim of the Center is to develop detailed models for assessment and amelioration of public health impacts due to hurricanes/major floods. A multi-disciplinary, multi-campus team has been formed combining the resources of natural scientists, social scientists, engineers, and the mental health and medical communities. Using New Orleans as a test case, this team will develop the techniques and models for dealing with public health issues associated with complex disasters such as hurricanes/flooding. The value of explaining the nature of the complex disaster is that little research has been done to show how a multi-hazard event (complex emergency) could unfold and the type of effects that this type of disaster would have. The results of this research will have universal applicability.

Dr. Brian Wolshon, *Louisiana Traffic Sign Inventory and Management System*, Louisiana Transportation Research Center, \$99,982.

Dr. Brian Wolshon, *Development of a State-of-the-Practice Guide on Hurricane Evacuation*, Federal Highway Administration, \$26,000.

Presentations:

John Pardue presented the keynote address at the Second International Conference on Wetlands & Remediation in Burlington, VT on September 5th, 2001. The talk was entitled “*Remediating Chlorinated Solvents in Wetlands: Natural Processes or an Active Approach?*”. The conference was sponsored by the Battelle Memorial Institute.

New Undergraduate Minor!

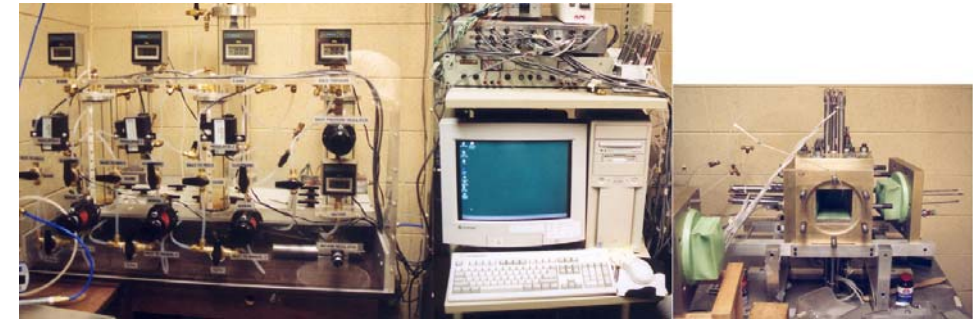
LSU is offering a new undergraduate minor to students interested in natural disasters, environmental hazards and emergency planning. The disaster science and management minor is jointly administered through the LSU Hurricane Center and the College of Arts and Sciences, but is available to students of all majors, pending approval from the deans of their colleges.

LSU TIGERS



SEC Champions

Cone Penetrometer, Light Falling Weight Deflectometer, and Geo-gauge] to evaluate strength/stiffness characteristics of highway materials for application in the quality control/ quality assurance procedures during construction of pavement layers and embankments. Louisiana DOTD sponsors the project.



The LSU True Triaxial Compression Apparatus

The project “*Elastic Wave-Based Travel Time and Amplitude Tomography in the Near-subsurface*” (Fratta) studies the problem of high-resolution near surface tomography using real elastic wave travel time and amplitude data. A thorough investigation is being conducted in the laboratory and in the field using models that simulate the complex shallow underground applications and conditions.

“*Evaluation of Effective State of Stress Using Bender Elements Based Measurements*” (Fratta) provides a non-destructive alternative for the evaluation of generation and disturbance of the capillarity forces using shear wave velocity. The experimental study involves the use of bender elements for the generation and reception of shear waves within a true triaxial test system. It is expected that when fast loading rates are induced, menisci break, and the velocity of wave propagation will drop. Then with time, capillary forces are re-generated, suction increases, and the velocity of wave propagation will also increase. The rate of suction rise will be directly related to the rate of wave velocity gain.

The project, “*Development of CCB Fill Material for Use in Mechanically Stabilized Marine Structures*,” (Rusch, environmental engineering, and Seals) will investigate the technical and economic feasibility of using a manufactured coal combustion by-product (CCB) fill material in conjunction with geogrid reinforcement to construct marine protective structures. The specific by-products being used are flue gas desulfurization sludge and Class C fly ash. The project is sponsored by the Combustion By-Products Recycling Consortium.

During this past summer, Alshibli and Fratta were active participants in the Research Experience for Undergraduate (REU) Program in Tomography Applications in Civil and Environmental Engineering. The program was sponsored by the National Science Foundation and was under the direction of Seals and Willson (water resources). The program is scheduled to continue over the next two years. Information about the program can be seen on the REU website (www.ce.lsu.edu/~reu).



Advanced Monitoring and Imaging of Geomaterials Laboratory

Four undergraduate students funded by NSF to gain research experience are involved in these projects in tandem with the NSF project “*Inclined Piezocone Penetration Aspects*.”

G4S faculty:

Dr. Dante Fratta, Assistant Professor

Dr. Khalid Alshibli, Assistant Professor, Joint Appointment at Southern University

Dr. Emir Macari, Associate Professor, On-leave at National Science Foundation

Dr. Roger Seals, Irma-Louise Rush Stewart Professor, Coordinator, Undergraduate Programs

Dr. Mehmet Tumay*, Georgia Gulf Distinguished Professor, Associate Dean

* Coordinator

Tomography Research Experience for Undergraduates

Dr. Roger K. Seals

Last summer, the Department conducted a Research Experience for Undergraduates (REU) Program focused on the use of tomography techniques in civil and environmental engineering. The Program was sponsored by the National Science Foundation and was conducted under the joint leadership of Dr. Roger Seals and Dr. Clint Willson.

Tomography is the ability to non-destructively obtain images of the interior of materials and systems, and is becoming a very valuable engineering tool. In addition to providing previously hard to measure data and information, the two- and three-dimensional images provide a qualitative view not possible before the adaptation of this technology to engineering.

The program lasted eight weeks in June and July and consisted of six participants who worked under the supervision of five professors in their specific areas of research. Students participating were Kendrick Domingue, a junior in Biological Engineering at LSU; Jeffrey Falati, Keith Hoffman, Melanie Lestelle, and Keegan Roberts, seniors in Civil Engineering at LSU; and Winston Jackson, a junior in Civil Engineering at Southern University. Faculty members participating in their respective areas of research included Dr. Khalid Alshibli, Computer Tomography in Geotechnical Engineering; Dr. Dante Fratta, Tomographic Imaging and Evaluation of Geotechnical Engineering Parameters with Waves; Dr. William Moe, Imaging of Pore Spaces in Attached-Growth Biological Waste Treatment Systems; Dr. Lingbing Wang, Tomography Image Application in Characterization of Pavement Materials, and Dr. Clint Willson, Pore-scale Properties of Multiphase Porous Media Systems.

Each student worked with specific professors and graduate students on their research projects and attended weekly seminars on subjects such as fundamental tomography, laboratory safety, ethics in research, data management, and advanced computational skills. At the end of the eight weeks, each student presented the results of their project in a Powerpoint presentation.

The Program will continue for the next two summers and hopes to attract students from institutions outside the State. More information concerning the REU program and the student's presentations can be found at www.ce.lsu.edu/~reu.

CEE Faculty Featured in Scientific American

The October 2001 issue of Scientific American magazine included a feature article titled "Drowning New Orleans," about the devastating consequences of a major hurricane strike on that city. **Joe Suhayda** and **Vibhas Aravamuthan's** storm surge flood modeling was a major part of the article. Their work was the basis for several of the figures in the article as well. The story included a long discussion with **Cliff Mugnier**, explaining how development has exasperated the subsidence problem in New Orleans. **Ivor van Heerden** was also interviewed, and quoted on coastal restoration strategies.

CEE and Hurricane Center Host Visiting Expert in Wind Engineering

Dr. John Holmes, one of the leading international authorities on wind engineering, is spending the Fall 2001 semester at LSU. Prof. Holmes joins us from Monash University in Australia. While here, he will work with the Hurricane Center on several wind tunnel projects and the NSF Hurricane Engineering award. Dr. Holmes is also teaching a graduate course in Civil Engineering called "Wind Loading and Structural Response." Please stop by his office in 3214F CEBA and say hello.

Awards/Achievements:

Dr. Marc Levitan (CEE and LSU Hurricane Center) was appointed to the ASCE National Research Policy Committee for a 3-year term.

Dr. Ivor van Heerden at the 15th Annual Louisiana Environmental Action Network (LEAN) Conference was awarded the "Voice in the Wilderness Award" for his environmental volunteer work in Louisiana and especially Livingston Parish. Ivor has spent many, many hours of his spare time helping others less fortunate than himself.

Dr. Brian Wolshon, Excellence in Teaching Award, Southern District of Chi Epsilon, 2000-2001

Chair Activities:

Dr. Louay Mohammad, Member, International Advisory Committee and International Technical Committee, International Conference on Advances in Civil Engineering – 2002, January 3-5, 2002, Department of Civil Engineering, Indian Institute of Technology, Kharagpur, India.

Dr. Brian Wolshon, "Transportation Issues Stemming From Evacuations Due to Hurricanes Floyd and Georges," 2001 ASCE National Conference and Exposition, October 2001, Houston, TX.

Dr. Brian Wolshon, "Hurricane Evacuation Issues: Focus on New Orleans" International Conference on Emergency Management, August 2001, Orlando, FL.

Dr. Brian Wolshon, Founder and Chair of the Transportation Research Board (TRB) Subcommittee on Emergency Evacuation

Research Grants:

Dr. Louay Mohammad, "Research Support for the Characterization of the Fundamental Properties of Transportation Materials in Louisiana," Louisiana Transportation Research Center, \$67,353.

Dr. Louay Mohammad, "Influence of Asphalt Tack Coat Materials on the Interface Bond Strength," Federal Highway Administration, \$90,675, 7/1/2001-12/20/2002.

Dr. Roger K. Seals and Dr. Clinton S. Willson, "REU Site: Tomography in Civil and Environmental Engineering," National Science Foundation, \$59,000.