

Civil and Environmental Engineering
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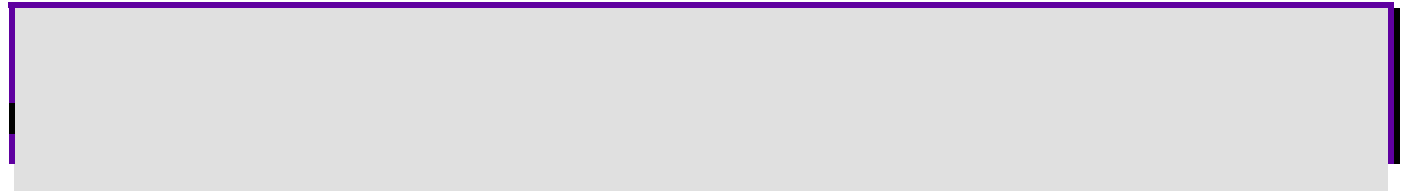
Some of the highlights of our Department Achievements of last fiscal year 2001-2002 include:

- **Rated in Top 50 Departments by NSF in funding**
- **Dr. Van Heerden obtained a \$3.7 million Health Millennium Fund grant for a Center.**
- **Our Department has the second highest enrollment of graduate students at LSU.**
- **Two of our Faculty members, Drs. R. R. Avent and V. P. Singh received national Society awards.**
- **The CEE research expenditures was \$3,581,870.**

The Civil and Environmental Engineering Department established last year a Hall of Distinction to recognize individuals who have made sustained contributions to the profession. Five charter members were inducted in 2001. This year three additional members, Drs. R. R. Avent and V. P. Singh

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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

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The project is sponsored by Louisiana DOTD. Dr. Alshibli has six graduate students working under his supervision.

Dr. Dante Fratta: Topics of research interest for Dr. Fratta include, (a) Assessment of the near-surface testing of rocks using non-invasive tomographic studies. (b) Non-destructive detection of low velocity anomalies in civil engineering infrastructure. (c) Coupling of seismic and electromagnetic waves in soils and rocks. (d) Study of low strain stiffness in rock masses with P- and S-waves. He currently has four graduate and three undergraduate students working under his supervision.

Dr. John B Metcalf: Dr. Metcalf is the Freeport-McMoRan Professor of Civil Engineering. Some of his research interests include highway construction - material and quality control, stabilization, use of non-standard materials including wastes and recycled products, and low volume roads. A current interest is in modeling the behavior of asphalt/concrete as an assembly of stone/asphalt plus filter.

Dr. Louay N. Mohammad: Dr. Mohammad is the director of Engineering Materials Characterization Research Facility at the Louisiana Transportation Research Center (LTRC). His research interests include (a) Construction Material Research/Pavement Engineering (b) Pavement Design and Analysis (c) Experimental Mechanics and (d) Instrumentation. He has six graduate students under his supervision.

Dr. Linbing Wang: Dr Wang. holds a joint appointment with LSU and Southern University and has four graduate students working under him. His research interests include (a) use of x-ray tomography, optical and infrared imaging for the characterization of pavement materials and geomaterials (b) microstructure and damage quantification and visualization (c) numerical simulation of material behavior and (d) accelerated pavement materials testing. Figure 2 presents some currently funded research on the visualization of materials microstructure through x-ray tomography imaging, and numerical simulation of material behavior using Finite Element Method (FEM) and Discrete Element Method (DEM).