

Christian Brothers University

SCHOOL OF ENGINEERING



Chemical



Civil



Electrical



Mechanical



Graduate Engineering

Engineering Newsletters

November 2004

NEW LAB EQUIPMENT HIGHLIGHT

Several new pieces of lab equipment have arrived in the Geotechnical Lab. They were acquired from the \$3M grant from the Assisi Foundation of Memphis. They will be used in the Geotechnical Lab course to determine soil properties for classification, earthwork inspection, and foundation design.

- Direct shear tester with data acquisition system from ELE International with shear load of 3 kN
- Pneumatic consolidation apparatus with data acquisition system from ELE International with 110 psi axial load
- Automatic soil compactor from Ploog Engineering with 5.5-lb and 10-lb hammer weights
- Double wall laboratory oven from Quincy Lab
- Combination permeameters from ELE International



Direct Shear Tester



Pneumatic Consolidation System



Automatic Soil Compactor



Ro-Top Mechanical Sieve Shaker

HIGH SCHOOL OUTREACH ACTIVITIES

Last October, **Dr. Randel Price** (ChE) gave a talk entitled "CBU Engineering: Resources for Teachers, Activities for Learners" at an In-Service Training for high school math and science teachers of Shelby County Schools. He also talked to a group of students at Middle College High School on "What is Chemical Engineering?"

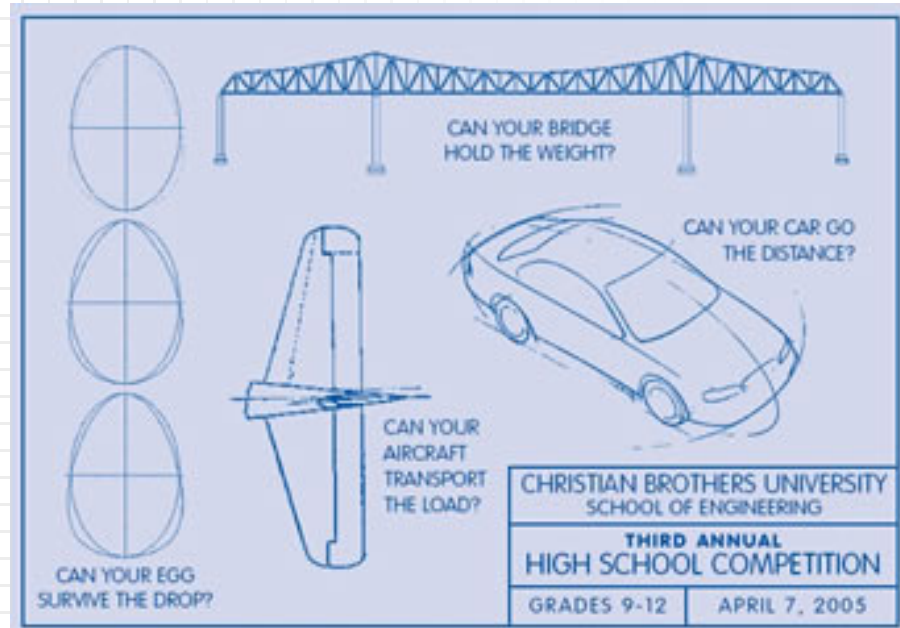
Also in October, **Dr. Eric Welch** (ECE Chair) talked about "Forensic Engineering" at Kirby High School. **Dr. Siripong Malasri** (Dean) served as Principal of East High School for 1/2 day under the Memphis City Schools "Principal for a Day" Program.

On November 2nd, **Dr. Randle Price** (ChE) made a visit to Rivercrest High School in Wilson, AR. He spoke to approximately thirty math students on "Engineering: Bridge to the Future".

Dr. Randel Price (ChE), Maureen Collins (Admissions), and **Dr. Siripong Malasri** (Dean) attended the CBU table at OPTIONS College and Career Fair at Dexter Middle School on November 9, 2004. OPTIONS is a Shelby County Schools program that introduces female students to engineering and sciences. The program is funded by the National Science Foundation. **Lori Morris** (CE'00) and **Dana (McFerrin) Grady** (ChE '02), engineers at EnSafe, were also at the fair representing their company.

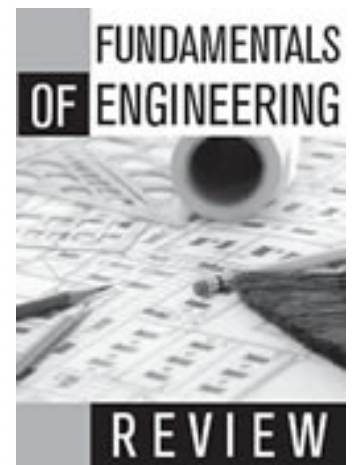
Mark Your Calendar! The School of Engineering at CBU will host the 3rd Annual High School Competition for 9th-12th graders on April 7, 2005. We plan to have the following competitions: Egg Drop, Balsa Bridge, CO2 Car, and Electric Air Vehicle. Alum: We will need several judges for these competitions. If you are interested in helping out, please contact **Dr.**

Randel Price at rprice@cbu.edu. Check the competition updates at http://www.cbu.edu/engineering/hs_comp_2005.html.



FE REVIEW

The School of Engineering at Christian Brothers University recognizes the importance of professional registration. We have just finished our PE Review for the Civil Engineering Exam last month and plan to offer the PE Review for Electrical Engineering in 2005. Each year our engineering & science professors offer the FE Review for our seniors in the spring and our seniors have done well in the past. We would like to extend this annual FE Review to local engineers.



Fundamentals of Engineering Review

Mondays & Wednesdays

6:00 p.m. - 8:00 p.m.

February 21 - April 11, 2005

Cost:

-\$75/person for current CBU undergraduate engineering majors

-\$250/person for others

The cost will cover 20+ hours of review time. Sessions include mathematics, chemistry, statics, mechanics of materials, dynamics, electrical circuits, thermodynamics, material science, fluid mechanics, ethics, and economics. Review textbooks can be purchased at a discount from our website at http://www.cbu.edu/engineering/fe_review.html.

Registration Information:

For current students: You will be contacted later in December when we receive the application form from the TN State Board. You can register at that time at \$75/person excluding the textbook.

For others: You can register for the class between now and January 15, 2005, for \$250/person. The application form can be downloaded from the website mentioned above.

For more information, please contact Dr. Siripong Malasri, Dean, at (901) 321-3419 or pong@cbu.edu. Don't miss this once a year opportunity.

STUDENT NEWS

Congratulations to **Susan Bell, Morgan Jones, Scot McMinn, and Kristin Widding** for being selected by the faculty of the Master of Engineering Management Program and the members of Alpha Delta Chapter to join Epsilon Mu Eta, the Engineering Management Honor Society. Membership is awarded in recognition of superior academic performance and excellent character.

ALUMNI NEWS



Congratulations to **Chris Singer** (ME'83) for being appointed recently as co-deputy director of the engineering directorate at NASA's Marshall Space Flight Center in Huntsville, AL. In his new leadership role, he will lead the center in the design, testing, evaluation and operation of hardware and software associated with space transportation, spacecraft systems, science instruments and payloads being developed at the Marshall Center. Immediately after his graduation from CBU, Mr. Singer joined NASA as a rocket engine specialist in the Structures and Propulsion Laboratory. He later led the Liquid Propulsion team. In 1992, he was at NASA Headquarters in Washington as senior manager for the Space Shuttle Main Engine and External Tank in the Space Shuttle Support Office. Mr. Singer later returned to the Marshall Center and was in various positions including Space Shuttle Main Engine Chief for Requirements and Integration, chief engineer in Space Transportation Directorate, deputy director of Space Transportation, and acting director. He received several awards from NASA including Outstanding Leadership Medal (2001) and Director's Commendations (1988 & 1995). The Astronaut Corps also presented him a Silver Snoopy Award in 1989.

Congratulations to **Elise Ibendahl** (CE'97) on the birth of her second boy and her recent award. Chapin George Ibendahl was born at 5:53 a.m. on

Wednesday, October 27th, 2004 — 7 lbs., 12 ozs. and 21 inches long. Since her first child Keaton (turned two in July) was born, Elise has switched from her full-time engineering job at CH2M to a part-time position as a Water Resources Engineer, which has allowed her to spend more time with her growing family. The company is very flexible and she has been working between 20-30 hours per week. Recently, one of her projects, the restoration of a river through Forest Park in the City of St. Louis, received the Outstanding Civil Engineering Achievement Award from the St. Louis Section of the American Society of Civil Engineers (ASCE). She gave the presentation at the awards dinner. The ASCE Section only awards one project per year.



**Grand Basin Project: Outstanding Civil Engineering Achievement Award,
St. Louis Section of ASCE**

FACULTY/STAFF NEWS

Dr. Mike Santi (ME) was invited to present a paper entitled "A Roadmap for Engine Health Management Systems" at the Health Management and Reliable Service Life Prediction Workshop. This workshop was sponsored by the Joint Army-Navy-NASA-Air Force (JANNAF) Interagency Propulsion Committee and held at Hill Air Force Base, Utah, on October 5-7, 2004.

Dr. K. Madhavan (CEE) attended the "Geotechnical & Seismic Bridge Design" workshop recently in Cape Girardeau, MO. This course was offered by the University of Missouri, Rolla.

Dr. Neal Jackson (MEM Director) recently gave a talk at an ASHRAE Luncheon Meeting on "Graduate Education for Technical Managers" and another talk at GMAQ Fall Quality Conference on "How Much Money Do You Save When a Process Is Improved?"

Dr. Paul Shiue (ME) and two ME seniors, **Brian DeJean** and **Jeffery King**, presented two papers "Lunar Cargo Lander Design" and "Integration of Launch Vehicle Simulation/Analysis Tools" at the Huntsville Simulation Conference on October 21, 2004. These were the results of their work with Marshall Space Center in Huntsville this past summer.

Congratulations to **Dr. Juan Carlos Olabe** (ECE) and his Multimedia Research Group at the University of the Basque Country for being awarded a one-half million dollar research grant by the European Research Commission for the integration of distance education technologies in Europe's Higher Education System. Dr. Olabe attended the project meeting recently in Scotland. The University of the Basque Country was founded in 1542 and currently has 4,000 professors and 50,000 students. Dr. Olabe also recently gave a series of talks at the University of De La Salle-Bajio, Leon, Mexico, on on-line courses and programs. He met with engineering department chairs, deans, and directors at the university. He also participated in the inaugural lecture of the Online Master in Project Management, which is an international master's degree program that links students in Spain and Mexico. The University of De La Salle-Bajio is the largest Lasallian university in the western hemisphere.

Halloween 2004 @ CBU Engineering



Can you tell who's who?

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