

# Christian Brothers University

## SCHOOL OF ENGINEERING



Chemical



Civil



Electrical



Mechanical



Graduate Engineering

### Engineering Newsletters

August 2003

#### **BENILDE RENOVATION/ ASSISI GRANT UPDATES**

A new **Computer Aided Engineering Lab** is up and running. This is the first lab implemented under the Assisi Grant. It is located in room N234, Nolan Engineering Center. The lab is equipped with 20 PCs for students and one instructor's PC. They are Pentium 4 PCs with 1024 MB RAM, 80 GB hard drive, 19" LCD flat screen monitor, CD-RW drive, and optical wheel mouse. In 2004 a data projector and other multimedia equipment will be added to the lab from the grant.



New Computer Aided Engineering Lab from the Assisi Grant

Thanks to **DeVilbiss Air Power Company** in Jackson, TN, for their recent donation of an ACSL 7580 V2-3 air compressor for Benilde Hall. It will replace the old air compressor. Thanks to **Dr. Joe Londino** (ME) for contacting the company. Check the progress of Benilde Renovation Project at <http://www.cbu.edu/engineering/Benilde>. We post new

pictures approximately every two weeks.

## **PACKAGING ENGINEERING UPDATES**

Congratulations to the first two Packaging Engineering Certificate recipients: **Denise Marie Mondragon** and **Shawna M. Roussel**. Both are May 2003 ChE graduates.

Our Packaging Engineering Certificate has made significant progress in only a few years. The supports from various organizations have made the progress possible. Below is a list of such supports:

- **FedEx** has allowed Mr. Yongquan Zhou, a certified packaging professional (CPP), to teach packaging courses for us.
- A group of Packaging Advisory Group consists of individuals from **Barrington Ford Associates, FedEx, Institute of Packaging Professionals (Mid-South Chapter), International Paper, Medtronic Sofamor Danek, Schering-Plough HealthCare Products, Smith + Nephew, and Wright Medical Technology**.
- **Wright Medical Technology** and the **Mid-South Chapter of the Institute of Packaging Professionals** provided financial support to the Packaging to Reduce Egg Drop Impact Competition for high school students held on CBU campus last April
- **Medtronic Foundation** has provided two grants to the program so far (a total of \$11,000).
- **International Paper** recently granted us a \$5,000 award for a one-week Packaging Workshop for high school students to be held in summer 2004.
- **Assisi Foundation** of Memphis has committed a \$3M to CBU. \$130,000 and \$160,000 from the grant will be spent on new equipment for Packaging Lab in 2004 and 2005, respectively.

Yes, we are building up our Packaging Engineering program. In a few years, our program will be one of the best in the country. If you are interested in our packaging engineering certificate program, please contact **Dr. Asit Ray**, Packaging Engineering Certificate Coordinator, at [array@cbu.edu](mailto:array@cbu.edu) or 901-321-3418.

## ALUMNI NEWS

**Al Waineo** (ME'03) is working toward his Master's degree in mechanical engineering at the University of Michigan. He is working as a research assistant on a vehicle dynamics project. Over the next year and a half, he will be modeling a vehicle in Matlab and 20-Sim then developing an active suspension system to increase vehicle performance. Al was on the 2003 CBU Moonbuggy squad.

Congratulations to **Jason Allmon** (CE'98) for recent Suggestion/Cost Reduction Award from the U.S. Army Corps of Engineers, Memphis District. He, as a civil engineer working in the Construction Branch at the Corps, submitted a suggestion to revise the 2003 White River dredging contract. By adopting his suggestion, the government realized a saving of \$39,000.



**Kristin Teague Barlett** is working in the structural engineering department at Thomas & Betts (T&B). Kristin received her B.S. in Civil Engineering with a minor in Mathematics from CBU in May 2003. She was named the 2003 Outstanding Civil Engineering Graduate by the department. While at CBU, she received Presidential Scholarship and served as Treasurer for the ASCE Student Chapter. Kristin is also a member of Tau Beta Pi. She worked as an intern and later as Pre-Engineered Building Designer for LMK

Building Designs, Inc., from September 2002 until she joined T&B recently.

**Carol Winfield-Jones** (CE'82, MEM'93), a civil engineer and senior project manager for the Memphis District, U.S. Army Corps of Engineers, recently received an "Emerald Honor" for professional achievement by Career Communications Group, Inc. The group publishes US Back Engineer & Information Technology magazine, Hispanic Engineer & Information Technology magazine, and Women of Color Conference magazine. Carol will receive the award at the Third Annual Women of Color Research Sciences and Technology Awards Conference in early September. Carol also serves as a trustee and an advisor of the Young Adult Ministry at Mt. Moriah Baptist Church in the Orange Mound community. Her professional affiliations include the National Female Executives Association, the National Society of Black Engineers, and the Society of American



Military Engineers. Congratulations!

## FACULTY/STAFF NEWS

**Dr. K. Madhavan** (CEE) attended an workshop on "Failure Case Studies in Civil Engineering Courses," University of Alabama at Birmingham on July 12, 2003, partly supported by NSF.

**Dr. Paul Shiue** (ME) spent the entire summer working with NASA's Marshall Space Flight Center in Huntsville, AL, on a project entitled "Graphical User Interface (GUI) Using MATLAB/Simulink for Nuclear Electric Propulsion Simulation Models." The objective of the project was to evaluate and create GUI for some Nuclear Electric Propulsion (NEP) modules, which is essential for design of a new space vehicle system.

**Dr. L. Yu Lin** (CEE) served as a panelist at the seminar entitled "China Product Safety Regulations: Coping with the China Compulsory Certification Quality Mark" on August 6th. The seminar was arranged by the Memphis Office of US Commercial Service, and the Schools of Business and Engineering at CBU.

**Dr. Randel Price** (ChE) attended the SENCER (Science Education for New Civic Engagements and Responsibilities) Summer Institute at Santa Clara University, August 8-12. The CBU team consists of Dr. Ellen Faith (Education), Dr. Malinda Fitzgerald (Biology), Dr. Max Maloney (Philosophy), Dr. Sandra Thompson-Jaeger (Biology), and Dr. Arthur Yanushka (Math/Computer Science), and Dr. Price (Chemical Engineering). The workshop dealt with ways to improve undergraduate teaching and learning, with particular focus on interdisciplinary science courses.

**Dr. Siripong Malasri** (Dean) and **Ms. Leslie Dunn** (Administrative Assistant) attended the Community Relations Breakfast on August 8, 2003. The International Paper Foundation presented awards to various organizations. CBU Engineering was granted a \$5,000 in support of a summer packaging program for high school students. **Mr. Michael Belk**, IT Project Manager at IP and Chair of CBU Packaging Advisory Group, was also at the Breakfast. Other organizations receiving supports from IP Foundation include Africa in April Cultural Awareness Festival, American Diabetes Association, American Red Cross, Brooks Museum of Art, Boy Scouts of America (Chickasaw Council), Circuit Playhouse Inc., Hands on Memphis, Junior Achievement of Memphis, Make-A-Wish Foundation of the Mid-South, March of Dimes, Memphis Cultural Arts Enrichment Center, Memphis Food Bank, Memphis in May International, Memphis Literacy Council, Memphis Zoo, Mpact Memphis, National Conference for Community and Justice, Porter Leath Children's Center, and the University of Memphis.



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