

# Christian Brothers University

## SCHOOL OF ENGINEERING



Chemical



Civil



Electrical



Mechanical



Graduate Engineering

### Engineering Newsletters

September/October 2003

#### THE COMPLEAT ENGINEER

#### Attention: Juniors and Seniors

Need to finish your time at CBU with a great senior elective? Want to participate in classroom discussions about current events like MP3 downloading, climate change, the "revolution in military affairs," globalization, nuclear power, blackouts... ? What's all this talk about reliability, risk, and safety? Want something to make your transcript stand out for a potential employer? What the heck is "engineering ethics"? Should I be prepared to "blow the whistle"? Should I care if my lunch was made of genetically modified food? Should I care if my employer makes cigarettes? For the answers to these and other burning questions, check out this new course!

**New Course Offering  
CE/ECE/ME 400  
"The Compleat Engineer"**

**HEY JUNIORS AND SENIORS!**

Need to finish out your time at CBU with a great senior elective? Want to participate in class and in discussions about current events like BP's downing a cruise ship, climate change, the "revolution in military affairs", globalization, nuclear power, blackouts...? What's all this talk about reliability, risk, and safety? Want something to make your transcripts stand out for a potential employer? What the heck is "engineering ethics"? Should I be prepared to "blow the whistle"? Should I care if my lunch was made of genetically modified food? Should I care if my employer makes cigarettes? For the answers to these and other burning questions, check out this new course!



**Catalog Entry:**  
**CE/ECE/ME 400. THE COMPLEAT ENGINEER**  
This course deals with a wide array of issues facing the practicing engineer. Topics include: engineering ethics; regulatory issues; health, safety, and environmental factors; reliability, maintainability, producibility, sustainability; and the context of engineering in the enterprise, in society, and as part of the global economy.

**Prerequisites:** Junior standing, MATH 132  
Brought to you by Professors Beard and Welch  
This course will be required for CE/ECE/ME class of 2007ff

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For more information, please contact the instructors, Drs. **Bernard Beard** and **Eric Welch**.

## STUDENT NEWS



**Benjamin Reves** (ChE junior) spent ten weeks at Colorado State University in Fort Collins during the summer on his research project entitled "The Role of Cell Physiology in the Biodegradation of Organic Pollutant Mixtures." The project is under Research Experience for Undergraduates (REU) funded by the National Science Foundation. He also presented his research findings at the eighth annual Symposium of the NSF REU Program in Bioprocess Engineering.

Congratulations to **Cara O'Hern**, freshman, Civil Engineering major, for her participation in The Commercial Appeal's "Freshman Diaries." The Commercial Appeal asked four college freshmen (one each from LeMoyne-Owen College, Christian Brothers University, University of

Memphis, and Rhodes) to keep a journal about their thoughts, experiences, expectations and realities. The Commercial Appeal will report periodically and eventually publish these diaries. So far, Cara says, "College life is incredible." In addition to taking 16 hours, Cara is a midfielder on the CBU soccer team.

## ALUMNI NEWS

**Heather M. Smith** (CE'03) is now employed at Ellers, Oakley, Chester & Rike, Inc., in the transportation group. She is getting married on January 3, 2004. Congratulations!

## FACULTY/STAFF NEWS

**Dr. Asit Ray** (ChE & Packaging Program Coordinator) visited the Packaging Department at Rochester Institute of Technology during late summer as part of his summer project on developing our packaging engineering program. The project is supported by a \$10,000 grant from the Medtronic Foundation.

Congratulations to **Dr. Paul Shiue** (ME) for a recent \$5,500 NASA grant. That grant will support an undergraduate research project. The objective of the project is to study some vehicle performance simulation modules developed at NASA research centers. CBU students will then develop graphical user interface between the original simulation FORTRAN codes and MATLAB platform. This is part of the integrated model for simulations of Nuclear Electric mission using MATLAB/Simulink. The participating undergraduate students will later be invited to apply for undergraduate summer research at Marshall Space Flight Center.

**Dr. Neal Jackson** (MEM Director) attended the American Society for Engineering Management National Conference in St. Louis, MO, October 15-18, 2003.

**Dr. Siripong Malasri** (Dean) along with **Dr. Mary Ogilvie** (Biology) and **Ms. Karen Conway** (Dean of Students) attended Lasallian Leadership Institute in Marine-on-St. Croix, MN, October 9-11, 2003. The focus was on the Lasallian Education Mission.