

School of Engineering

CHRISTIAN BROTHERS UNIVERSITY

News - July 2000

FE RESULTS

According to the results from the April 2000 Fundamentals of Engineering Exam, 28 of 33 CBU seniors passed the exam - an 85% passing rate. The Tennessee and U.S. passing rates were 81% and 82% respectively. It should be noted that our Electrical and Computer Engineering Department had a 100% passing rate. Congratulations!

GRADUATE ENGINEERING CERTIFICATE PROGRAMS

To better meet the needs of the engineering/technical community, Graduate Engineering at Christian Brothers University is now offering certificates in Information Technology and Construction Management. The School of Engineering awards certificates for the completion of three courses (9 credit hours) in one of the two areas. Evening classes begin on August 21, 2000.



Benefits:

- Expand knowledge to improve job performance and increase opportunities for advancement
- Recognition for completion of requirements of a graduate-level certificate program
- Receive up to 45 professional development hours (PDH's) per course
- Courses taken may be applied toward the completion of the Master of Engineering Management degree

Admission Requirements:

- Graduate of an ABET-accredited undergraduate program
- Have a 3.0 grade point average in your undergraduate major
- Have a minimum of three years professional work experience

Application Requirements:



- Completed application
- Essay/personal statement
- Official transcripts from all colleges/universities attended
- Two letters of recommendation
- \$25 application fee

Courses:

Construction Management

- ENGM 611 Construction Estimation
- ENGM 612 Project Planning and Scheduling
- ENGM 613 Construction Equipment & Methods
- ENGM 614 Construction Failures
- ENGM 615 Special Topics in Construction Engineering and Management

Information Technology

- ENGM 606 Computer Applications
- ENGM 624 Knowledge Engineering
- ENGM 636 Computer Networks
- ENGM 637 File & Database Management

Fall 2000 Class Schedule (May 21 - December 7, 2000):

ENGM 606 Computer Applications - 3 credits

T 5:30 - 8:15 p.m., N235

Computer-aided design and manufacturing; business applications; personal computers; information storage; networks; computer graphics; future applications; management systems. --

Instructors: Eric Welch, Ph.D.

ENGM 614 Construction Failure - 3 credits

Th 5:30 - 8:15 p.m., N241

Various types of construction failures including geotechnical, materials, structural failures, construction techniques, and others. Geotechnical failures: soil and rock strengths and stability considerations. Strengths and properties of common construction materials such as wood, concrete, and steel. Structural considerations. Construction techniques/methods considerations. Communication/management problems. Learning from previous failure cases (case studies). -- Instructors: K. Madhavan, Ph.D., P. E. and Siripong Malasri, Ph.D., P.E.

Tuition:

\$50.00 technology fee per semester; \$1125 per course (\$375.00 per credit hour)

For more information on the certificate programs and the application process, please contact Dr. Neal Jackson, Director of Graduate Engineering, at 321-3283 or njackson@cbu.edu. Visit the website at www.cbu.edu/memp for a description of the Master of Engineering Management program. There is still time to register for Construction Failures or Computer Applications, so please contact Dr. Jackson as soon as possible if you are interested.

ALUMNI NEWS

Where are our 2000 engineering graduates?



- **Adam Bernard** (CE) - Allen & Hoshall, Memphis, TN
- **Justin Cash** (ChE) - Buckeye Technologies, Memphis, TN
- **Heather Coburn** (ChE) - Ensafe, Memphis, TN
- **Alicia Harris** (ChE) - NASA, Huntsville, AL
- **Jennifer Mendler** (ChE) - Phillips Petroleum, Houston, TX
- **Lori Poepsel** (CE) - AutoZone, Memphis, TN
- **Luis Tercero** (ChE) - University of Wisconsin, Madison, WI (Chemical Engineering Graduate Program)
- **Alex Weddle** (ChE) - Vanderbilt, Nashville, TN (Biomedical Engineering Graduate Program)

Other members of Class of 2000: Please let us know where you are.

FACULTY NEWS



Dr. Bob Blanks

Dr. Bob Blanks (ChE Department Chair) has been named an "honor roll advisor" for the 1999-2000 academic year by the national American Institute of Chemical Engineers (AIChE). This honor is bestowed upon student advisors from chapters that have recruited as many or more members than the total number of graduates from the previous year. Honor Roll advisors receive complimentary registration to the AIChE Annual Student Conference and the AIChE Annual Meeting. Congratulations!

Br. Louis Althaus (ECE) and **Dr. Neal Jackson** (MEM) attended the ASEE National Meeting in St. Louis in June. Dr. Jackson presented a paper entitled "Participation in the Tennessee Quality Award program to Assess a Graduate Program in Engineering Management" at the meeting.

Dr. Mike Santi (ME) presented at a paper entitled "Generalized Data Reduction Strategy for Rocket Engine Applications" at the



Br. Louis Althaus

36th AIAA/ASME/SAE/ASEE Joint Propulsion Conference. The conference was held in Huntsville, AL on July 16-19, 2000. The paper describes a new, robust method for characterizing the performance of rocket engine components using limited test data. The new strategy addresses efficiency, stability, and accuracy concerns inherent in conventional methods of data reduction.



Dr. Juan Olabe

Dr. Siripong Malasri (Dean) was in a six-member team from the Association of Thai Professionals in America and Canada (ATPAC) that visited Thailand in early July under the sponsorship of the Thai Ministry of University Affairs. The team gave a two-day workshop entitled "Autonomous University II" at Kasetsart University in Bangkok. They also gave another two-day workshop entitled "Strategies to Increase University Automomy" at Prince of Songkla University in Hat Yai. While in Thailand, Dr. Malasri also visited Khon Kaen University and gave a lunch talk for the engineering faculty on "The Impact of Industrial Changes to Engineering Education."



Dr. L. Yu Lin

Dr. Juan Carlos Olabe (ECE) is helping Esigelec, a university in France, to develop technical and academic infrastructure for course delivery over the Internet. He was also recently invited by the president of La Salle University in Barcelona, Br. Daniel Cabedo, to help the university in their Masters in e-Commerce.

Dr. Trey Brown (Biology), **Dr. Cathy Parker** (Education) and **Dr. L. Yu Lin** (Civil & Environmental Engineering) offered a five-day workshop entitled "Integrating Environmental Science Issues into Science Curricula" for area junior high and high school science teachers. The workshop was held on the CBU campus June 26-30, 2000, and produced under a \$25,000 grant from the Tennessee Higher Education Commission and the U.S. Education Department under the auspices of the Eisenhower Professional Development Grants Program. The 20 participants visited the South Wastewater Treatment Plant, FCR recycling facility, and Beaver Creek Watershed as part of the workshop.