

Christian Brothers University

SCHOOL OF ENGINEERING



Chemical



Civil



Electrical



Mechanical



Graduate Engineering

Engineering Newsletters

November 2003

ST. BENILDE HALL / ASSISI GRANT UPDATES

The blessing ceremony of St. Benilde Hall took place on October 28th. Reverend Albert Kirk, pastor of Holy Spirit Church and member of CBU Board of Trustees, performed the ceremony. Several CBU faculty, staff, administrators, and members of the Board of Trustees attended the event.

The Thomas W. Briggs Foundation recently approved a \$100,000 grant for sponsoring a lab in St. Benilde Hall. The Foundation was established by the late Thomas W. Briggs, who founded Welcome Wagon, an American tradition of hospital and service, in Memphis in 1928. Providing funds for educational, religious, cultural, social, and community service organizations, the Thomas W. Briggs Foundation has supported many projects at Christian Brothers University. Some of these grants include funding for the School of Sciences faculty development, the Brother Theodore Drahmman Scholarship Fund, the Rosanne Beringer Computer Center, the Hubert A. McBride Executive Classroom in Buckman Hall, and the Eleanor Beringer O'Neill Scholarship Fund. Thanks to **Lisa Bell** and **Br. Patrick O'Brien** for putting together the proposal to the foundation.

A new Rapid Prototyping Lab is now operational. It is located in room N238A, Nolan Engineering Center. It consists of a new 3D printer, the Dimension. Our students now have the capability to print a plastic model of a 3D object created in a 3D modeling software package, such as Pro/Engineer. It speeds up our design process from a conceptual design to a prototype. For example, now we can design and produce a real salt-shaker within an hour. This machine is a part of the long list of equipment funded by the Assisi Foundation of Memphis. Here is some technical information on the machine:

- Name of the machine: Dimension 3D printer
- Manufacturer: Stratasys, Inc
- Workstation compatibility: Windows NT/2000
- Build size: Max. 8" x 8" x 10"
- Materials: ABS plastic
- Layer thickness: 0.01" or 0.013"



Dimension 3D Printer

NOLAN GOES WIRELESS

Information Technology Services at CBU has completed the initial installation of a wireless network. The wireless network may be accessed throughout the Library, Thomas Center, Nolan Engineering, Buckman Quadrangle, Kenrick and the Computer Center. The connection is 11Mbps with an 802.11b wireless standard. To access the wireless network, users need to register their wireless network card with the ITS Help Desk and configure their wireless network settings with the appropriate SSID and WEP encryption key which the Help Desk will provide. You may contact the Help Desk for more information by emailing help@cbu.edu or calling 321-4438.



ITS Staff Checking on Wireless Transmission in Nolan

**APRIL 2004
FE EXAM**

**APRIL 04 FE EXAM APPLICATION DEADLINE
January 9, 2004**

Attention Seniors!

If you plan to graduate in May 04, August 04, or December 04, you are eligible to take the FE exam on Saturday, April 17, 2004. Passing the exam is half way toward becoming a registered professional engineer. Many employers give a favorable consideration to those who have passed the exam. The best time to take the FE exam is while you are in school or when you are about to graduate.

If you are eligible and plan to take the FE exam in April 2004, you need to register now. You need to turn in the application to Ms. Leslie Dunn in the Engineering Dean Office by Friday, January 9, 2004. We need to send it to the State Office by January 15, 2004. The application form can be found at <http://www.state.tn.us/commerce/boards/ae/eintSenior.html>. You can also get a copy of the form from Ms. Leslie Dunn. It is better to turn in your application form before you leave for the Christmas/New Year holidays.

NCEES is publishing a new Reference Manual for use with the April 2004

exam administration; the reference manual should be posted by the end of November on the NCEES website at www.ncees.org. A policy on calculators can also be found at <http://www.ncees.org/exams/calculators/>. Some of the older models of calculators are not reflected in the listing because the manufacturer has discontinued them. If they have communication capabilities or text-editing features, they will not be permitted either; one such example is the TI-85.

MAESC 2004 CONFERENCE

MAESC 2004 has been scheduled for Wednesday, May 12, 2004. It will be the sixth annual conference. The conference theme this year will be "ethics." Your company can be a corporate sponsor of the conference with a financial support of \$1,000. As a corporate sponsor, your company will be listed on the conference web site (<http://www.cbu.edu/engineering/maesc>) and brochure, be provided a free exhibit table at the conference, and receive a free one-page advertisement space in the Program given at the conference. Please contact Dr. Siripong Malasri at (901) 321-3419 or pong@cbu.edu for more information.

STUDENT NEWS

The IEEE student branch officers attended the THE IEEE STUDENT BRANCH LEADERSHIP TRAINING WORKSHOP at Vanderbilt University on October 4, 2003. Attending were Josh Holtgrewe, Chairman; Gieselle Mendonca, Secretary; Favian de Lima, Treasurer; and John Ventura, Student Branch Counselor. The workshop is designed to guide student activities at the branch level. It covered branch administration, branch operations, membership, fundraising, professional awareness activities, and time management.

The Electrical and Computer Engineering Department and the Memphis Section of IEEE hosted a fish fry picnic recently for all members of the section and their families. It was on the CBU campus, behind the Nolan Engineering Building. This was a great opportunity for students to meet fellow engineering professionals and enjoy the fall weather. The menu included fish, hushpuppies, french fries, onion rings, coleslaw, and dessert all prepared by section officers. Students need to remember that "Networking" is an essential key in the career market.



IEEE Fish Fly Picnic Behind Nolan Engineering Center

ALUMNI NEWS

Thanks to **Juanita Ford** (CE'02), **Tanya Henderson** (ChE'02), and **Joan McGroary** (EE'88) for spending time with a group of 9th grade girls from Bartlett High School on November 18th. The girls are in the Shelby County Schools OPTIONS Program, which is funded by the National Science Foundation. The purpose of the program is to bring more females into technical disciplines, such as engineering. They toured the newly renovated St. Benilde Hall, did a design project, and had a round-table discussion with the three female engineering alumni.



OPTIONS Girls in Electronics Lab

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