

School of Engineering

CHRISTIAN BROTHERS UNIVERSITY

News - June 2002

ASSISI GRANT

The Assisi Foundation of Memphis recently awarded a \$3 million grant to Christian Brothers University. Approximately \$2 million will be used in engineering lab equipment upgrade. Another \$0.35 million will be used to renovate Benilde Hall. The remaining \$0.65 million will be used to upgrade science labs. This grant is the largest single foundation gift ever received by the University.



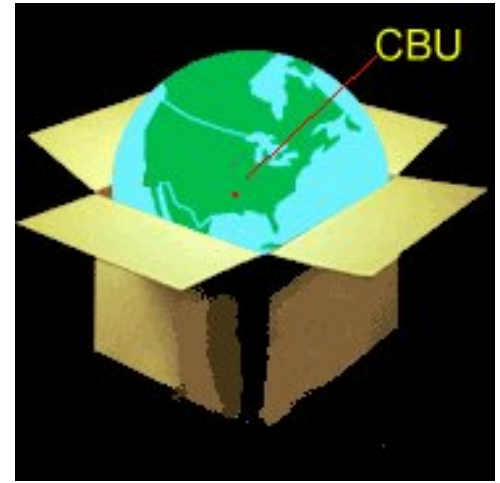
CBU engineering students will soon have access to new labs, which will include biochemical, packaging, and forensic labs. This grant will also provide new lab equipment for many of our existing engineering labs: solid mechanics, geotechnical, environmental, process control/mass transfer, fluid mechanics, heat transfer, control, manufacturing, and polymer. We will also have new PCs for the CAD Lab, the Electronics Lab, and the Instrumentation Lab. In addition, there will be a new computer-aided engineering lab.

Actually, CBU Engineering has been quite successful in the past with our current labs, in large part due to the quality and dedication of the engineering professors. Imagine what we can do with a more modern lab facilities and state of the art equipment! You will hear from us on a regular basis in the next three years as we implement this grant.

PACKAGING ENGINEERING CERTIFICATE

The School of Engineering is pleased to announce our Certificate of Packaging Engineering program. This is effective immediately. Below are the requirements for this certificate:

- ChE 319 Principles of Packaging (3 crs.)
- ChE 320 Distribution Packaging (3 crs.)
- Project (3-6 crs.)
- Elective (3 crs.)



The following senior design project courses are acceptable for the "Project" requirement above, given that the project includes packaging component: ChE 401/402 (4 crs.), CE 431/432 (4 crs.), ECE 409/410 (3 crs.), or ME 407/408 (6 crs.).

Approved electives include:

- ChE 245 Materials Science (3 crs.)
- CE 214 Strength of Materials (3 crs.)
- ME 200 Solid Mechanics (3 crs.)
- ME 428 Materials Science (3 crs.)

For practicing engineers who wish to get the certificate, a 3-cr. Independent Study course with packaging consideration can be used to meet the "Project" requirement. Transfer credit for the elective requirement is also possible. Pre- and/or co-requisite requirements for each course taken must be met.

Requirements to receive the Packaging Engineering Certificate are: all courses taken must be passed, and overall grade must be 2.0

ChE 319 is scheduled for fall 2002 on Tuesdays and Thursdays from 5:30 p.m. to 6:45 p.m. For more information, contact Dr. Asit Ray at aray@cbu.edu/(901) 321-3418 or Dr. Siripong Malasri at pong@cbu.edu/(901) 321-3419.

MAESC 2002 CONFERENCE

The MAESC 2002 Conference was held on May 10, 2002, and was very successful. There were approximately 160 people in attendance from Memphis, Arkansas, and Mississippi. Our CBU faculty, staff, and students presented the following papers at the conference:



- *Backpropagation Networks for Time Series Forecasting: Case Studies in Data Modeling* by Kriangsiri Malasri and **Siripong Malasri**
- *Preliminary Survey of Teaching Engineering Ethics* by **Fred Terry, Peter Limper, and Siripong Malasri**
- *Accreditation Criteria for Online Educational Programs* by **John Ventura**
- *Simulation of St. John - New Madrid Flood Control Using Hec-Ras Model* by **Juanita Ford, L. Yu Lin,** and Roger Smith
- *An Intelligent Plural Auto Recognition Search Engine* by **Brian King and Siripong Malasri**
- *Teaching Packaging at Christian Brothers University* by **Asit Ray and Yongquan Zhou**
- *An Overview of the Measurement and Analysis of the Shock and Vibration in the Distribution Environment* by **Yongquan Zhou**
- *The Use of Modern Capital Budgeting Techniques* by **Howard Lawrence**
- *The Use of Differential Costing in a Master of Engineering Management Program* by **Judy Ramage**
- *Collaborative Analysis in Problem Solving* by **Margie Miller**
- *Utilization of Laser Doppler Flowmetry to Evaluate Microvascular Blood Flow in Both Research and Teaching Environments* by **Malinda E.C. Fitzgerald**
- *Database Design for Electrical Panels* by **Shalini Gupta,** Monte DePouw, and **John Ventura**
- *Adapting Self-Diagnostic Technology for a High Lumen Fluorescent Emergency Ballast* by **Shane De Lima,** Tom Mascari, and **John Ventura**
- *MEM 637 - File/Database Management* by **Carl Hardeman**
- *Thermal Studies of the Dry and Wet Inert Porous Media* by **Ali Pourhashemi** and Ramesh C. Chawla
- *Project Scheduling and Risk* by **Neal Jackson** and Carl R. Williams
- *Certification for Engineering Managers* by **Barbara Meyer** and **Neal Jackson**
- *Innovation/Idea Center: A Model for Economic Development* by **Siripong Malasri, Neal Jackson,** and Neil Masner
- *IA Mail: An Intelligent Agent Management Tool for E-Mail Applications* by **David Schaefergen**
- *Ongoing Assessment in the Classroom* by **Neal F. Jackson**

STUDENT NEWS

Congratulations to the following ECE and ChE seniors for their final senior project presentations on April 13 and 27, respectively. Also thanks to the sponsors of these projects:

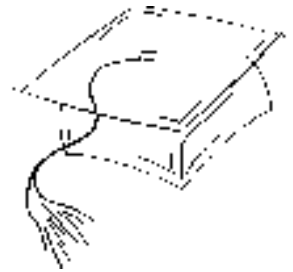


- *An Intelligent Plural Auto Recognition Search Engine*
Student: Brian Patrick King (ECE)
Sponsor: CBU ECE Department
- *Adapting Self Diagnostic Technology for a High Lumen Fluorescent Emergency Ballast*
Student: Shane De Lima (ECE)
Sponsor: The Bodine Company
- *Optimization of the Internet Access Pack (IAP) Process*
Student: Julien Ait Maksene (ECE)
Sponsor: SBC Company
- *Programmable Integrated Circuitry*
Student: Joshua David Herndon (ECE)
Sponsor: Hypertech, Inc.
- *Soccer Lighting Computer Application*
Student: Teresa Lynn Fuller (ECE)
Sponsor: CBU ECE Department
- *Hands Free Scanning Equipment Tracking Program*
Student: Nicholas Alan Montgomery (ECE)
Sponsor: FedEx
- *IAMail: An Intelligent Agent Management Tool for E-Mail Applications*
Student: David Andrew Schaeffgen (ECE)
Sponsor: CBU ECE Department
- *Computerized Software System for Electronic Solenoids*
Student: Sidney K. D'Mello (ECE)
Sponsor: CBU ECE Department
- *Database Program to Design Electrical Panels*
Student: Shalini Gupta (ECE)
Sponsor: DePouw Engineering
- *PLC Trainer*
Student: Debra A. Helms (ECE)
Sponsor: CBU ECE Department
- *PLC Compensated Tachogenerator for Feedback for Constant Speed Control of an AC Induction Motor*
Student: Andrew Howard (ECE)
Sponsor: CBU ECE Department
- *WAP Enable the CBU Catalog*
Student: Anuj A. Kanal (ECE)
Sponsor: CBU ECE Department
- *XML Data Store: An XHTML HTTP Interface to the LDAP Directory Server*
Student: John J. Luttrell (ECE)
Sponsor: CBU ECE Department
- *Power Engineering: Generating Power Safer*
Student: James Joseph Moore, Jr. (ECE)
Sponsor: Day & Zimmermann, UPS
- *Process Control Integration*
Student: Soumabha Mukerjee (ECE)
Sponsor: CBU ECE Department
- *The Design of an ATM WAN for Memphis City Schools*
Student: Stephany Ogbonmwan (ECE)
Sponsor: XO Communications, Inc.
- *Bluetooth Used for Applications*
Student: Chad Davis Pyburn (ECE)

- Sponsor: FedEx
- *International Country Coverage Guide*
Student: Akhil J. Rodrigues (ECE)
Sponsor: FedEx
- *SQL Database with Real Time Web Update*
Student: William Tung (ECE)
Sponsor: CBU ECE Department
- *MP3 Broadcaster*
Student: Jared R. Whitby (ECE)
Sponsor: CBU ECE Department
- *Product Development of Plasticized Polymethyl Methacrylate Used in Enhancing UV Light Transmission*
Student: Dana Carol McFerrin (ChE)
Sponsor: INEOS Acrylics
- *Testing and Setup of an Introduction to Controls Experiment*
Student: Jacob Vickery (ChE)
Sponsor: CBU ChE Department
- *Waste Minimization of Isocyanate Washout Via the Production of a Raw Material*
Student: Lisa Rathheim (ChE)
Sponsor: William Barr
- *Temperature and Level Control in a Pilot Gravity Drained Tank System*
Student: Eric Amor Luna (ChE) and Robert Christopher Scott (ChE)
Sponsor: VRC
- *FA/THFA VOC Emission Reduction*
Student: Tanya Nicole Henderson (ChE)
Sponsor: Penn Specialty Chemicals

Congratulations to the following engineering students who recently graduated with honors:

- **Rebecca Ann Bailey** (BSCE - Cum Laude)
- **Shane Felix Elias De Lima** (BSEE - Summa Cum Laude)
- **Jason Michael Deweber** (BSCE - Summa Cum Laude)
- **Jason John Diniz** (BSME - Magna Cum Laude)
- **Sidney Keith D'Mello** (BSEE - Cum Laude)
- **Douglas Robert Erskine** (BSEE - Cum Laude)
- **Teresa Lynn Fuller** (BSEE - Summa Cum Laude)
- **Shalini Gupta** (BSEE - Magna Cum Laude)
- **Debra Ann Helms** (BSEE - Cum Laude)
- **Andrew Howard** (BSEE - Summa Cum Laude)
- **Lingfang Huang** (BSEE - Summa Cum Laude)
- **Brian Patrick King** (BSEE - Cum Laude)
- **Katherine Emerante Logerot** (BSME - Magna Cum Laude)
- **Garrett DeeWayne Martin** (BSME - Magna Cum Laude)
- **Dana Carol McFerrin** (BSChE - Cum Laude)
- **Soumabha Mukherjee** (BSEE - Summa Cum Laude)
- **William Alan Rezach** (BSME - Cum Laude)
- **Akhil Jon Rodrigues** (BSEE - Magna Cum Laude)
- **Charles Edward Stevens, Jr.** (BSME - Cum Laude)
- **Jacob Matthew Vickery** (BSChE - Cum Laude)
- **Kristofer Keith Westbrook** (BSME - Magna Cum Laude)



Also congratulations to the following graduates who were recognized at the commencement last May:

- **Jason Deweber** for the *2002 Outstanding Civil & Environmental Graduate Award* and the *2002 Outstanding School of Engineering Graduate Award*
- **Dana C. McFerrin** for the *2002 Philip M. Becker Chemical Engineering Graduate Award*
- **Stephany Ogbonmwan** for the *2002 Philip Morgan Electrical Engineering Design Award*
- **Marco D. Capote** for the *2002 T. Herbert Darnell Mechanical Engineering Graduate Award*



FACULTY/STAFF NEWS

Mr. Gene McGinnis and **Dr. Mark Driver** have been reappointed as CEE and ME Department Chairs, respectively, for the next three-year term. **Dr. Siripong Malasri** has also been reappointed as Dean of Engineering for the next three-year term.

An article by **Dr. Bernard Beard** (ME) entitled "Scaling Violations in the Antiferromagnetic Heisenberg Model" was recently published in *Nuclear Physics*, Vol. 106, pp. 896-898, 2002.

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