

Christian Brothers University

SCHOOL OF ENGINEERING



Chemical



Civil



Electrical



Mechanical



Graduate Engineering

Engineering Newsletters

December 2003

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. If you plan to take the exam, you need to register now. You must 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 also can get a copy of the form from Ms. Leslie Dunn. I recommend that you turn in your application form before you leave for the Christmas/New Year holidays.

INTERNATIONAL CONNECTIONS

Dr. Christine Roueche, Chair of the Department of Information and Communications Technology, Ecole Superieure d'Ingenieurs Generalistes (ESIGELEC), Mt. Saint Aignan, France co-teaches with **Dr. Juan Olabe** (ECE) via the Internet two courses this Fall: ECE 112 (Computer Engineering Problem Solving) and ECE 486 (Special Topics: Database Design). She earned her M.S. in Electrical Engineering from Universite de Technologie de Compiegne (UTC), Compiegne, France, and Ph.D. in Computer Sciences from Universite de Rennes, Rennes, France. The Electrical & Computer Engineering Department at CBU has exchanged students with ESIGELEC for many years. The Internet has strengthened the relationship between the two institutions.

Dr. Siripong Malasri (Dean) visited Chiang Mai University (CMU), Chiang Mai, Thailand, during November 23 - 26 under a travel grant from the Thai Ministry of University Affairs. The presidents of CMU and CBU signed a cooperation agreement during the summer of 2003. The first joint project will be a CMU-CBU sandwiched program, in which 5-10 architecture graduate students will come to CBU in the spring semester each year. CBU engineering faculty members (**Dr. Neal Jackson** - MEM, **Dr. Louie Lin** - CEE, **Dr. Paul Shiue** - ME, **Mr. John Ventura** - ECE, and **Dr. Siripong Malasri** - Dean) will be their research mentors. These graduate students will learn and apply various information technology available at CBU to their architectural problems including: artificial intelligence for architectural decision-making, research methodology for architectural decision-making and management, rapid prototyping architectural form generating, architectural design/practice and human factors, and geographical information systems applications in architecture. There are several possible areas for thesis work, which are in the context between USA and Thailand/South East Asia:

- Vernacular architecture design expertise capturing
- Optimal spatial-design processes determination
- Building elements design criteria through 3-D modeling
- Historic architectural forms regenerations
- Human factors evaluation in building design
- Environmental constraints for prototyped-building regenerations
- Human perceptions for better built-environment
- Validating models for better urban design
- Environmental controls for urban design and planning
- Architectural project-management
- Architectural decision support for materials and equipment selection
- Risks and assessment in architectural performances
- Architectural facilities management

The first group of Thai graduate students is expected to arrive at the CBU campus in January 2005.



Left to Right: Dr. Malasri worked with Dr. Ekkachai Mahaek and Dr. Apiochoke Lekagul of CMU

Dr. Asit Ray (ChE), **Mr. Yongquan Zhou** (FedEx & Packaging Adjunct), and **Dr. Siripong Malasri** (Dean) recently met a group of representatives from Nantong Economic & Technology Development Zone International Trade Co., Ltd., Nantong, China. The visitors were given a tour of the CBU engineering facility including the new Saint Benilde Hall. Among the visitors were **Mr. Yin Xian** (General Manager), **Mr. He Zheming** (Senior Engineer), and **Ms. Sun Jun** (Trade Administrative Department Manager). The School of Engineering at CBU is exploring educational opportunities with Nantong Textile Vocational Technology College.

ST. BENILDE HALL TSPE MEETING, JANUARY 15, 2004 - SAINT BENILDE HALL TOUR

If you have not visited our new Saint Benilde Hall, there is a great opportunity for such a visit on Thursday, January 15, 2004. Dr. Siripong Malasri, Dean of Engineering, will give a talk at the January meeting of the Tennessee Society of Professional Engineers (Memphis Chapter) entitled "Engineering Education for the 21st Century." He will focus on the importance of hands-on components in engineering education and the ability to turn conceptual ideas into realities in a shorter time frame. The School of Engineering at CBU has recently finished a \$1M renovation project of Saint Benilde Hall. Almost \$2M of new engineering lab equipment from the Assisi Foundation of Memphis is continuing to arrive through December 2005. Recent pieces include a 3-D printer, 21 Pentium IV for a new PC lab, several data acquisition systems with

LabView software, and a concrete testing system.

The lunch meeting will be in the East Lounge from 11:30 a.m. 12:45 p.m. A tour of the CBU engineering lab facility will follow. Door prizes at the end of the facility tour will include two free registrations to the MAESC 2004 Conference. The lunch cost is \$12. If you plan to attend the meeting, please RSVP by Tuesday, January 13, 2004, by calling Michael LaMountain, TSPE Secretary, at (901) 729-2941 or sending him an email at michael@urbanelectric.biz.

ENGINEERING MANAGEMENT HONOR SOCIETY

The Master of Engineering Management (MEM) Program has long needed a way to appropriately recognize our superior students. Toward that end, Graduate Engineering has established the ALPHA DELTA CHAPTER of Epsilon Mu Eta, The Engineering Management Honor Society. As faculty of the MEM Program and Charter Members of Epsilon Mu Eta, **Dr. Juan Carlos Olabe-Basogain** and **Dr. Eric Welch** have agreed to serve as faculty advisors for the Chapter.

Membership in the ALPHA DELTA CHAPTER is open to students enrolled in the Master of Engineering Management Program elected to membership and those members of the Epsilon Mu Eta affiliated with Christian Brothers University. To be elected to membership, students must have shown both superior academic achievement and excellent character.

In accordance with the Constitution and Bylaws of Epsilon Mu Eta, and the Constitution of the ALPHA DELTA CHAPTER, the following students have been elected to membership:

- Daniel Donato Barulli
- Bethany A. King
- Joseph M. Polk, Jr.
- Phillip Andrew Ryan
- Christine N. Scifert
- Jason R. Snyder
- Trevor James Stedke



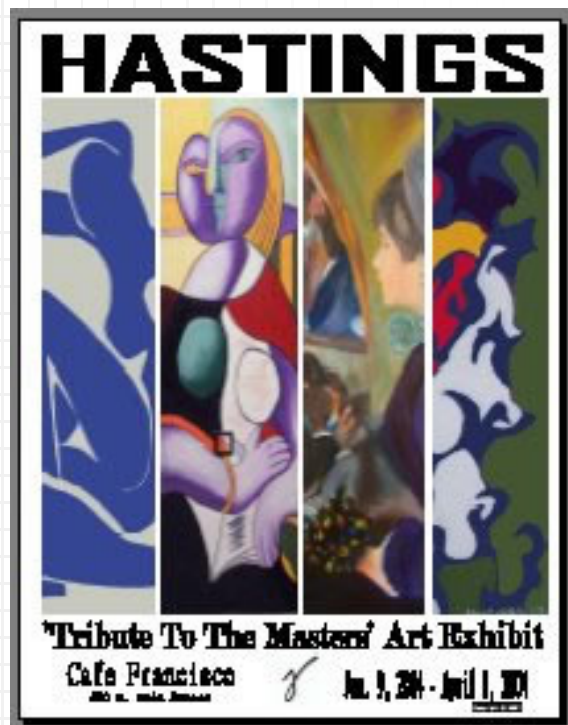
Please join us in congratulating these students for this honor and recognition. More information regarding Epsilon Mu Eta and the ALPHA DELTA CHAPTER will be available on our web site in January.

ALUMNI NEWS

Thanks to the following engineering alumni who helped at the Engineering Open House on Sunday, November 23rd: **Jyoti Gupta** (ChE'03), **Laura Pearson** (ME'90), **Mark Luttmann** (ChE'82), **Paul Babin** (EE'82), **Bobby Fisher** (CE'70).

Congratulations to **Lisa Lavie** (EE'03) for her latest recognition. Lisa has received the 2003 Elizabeth Roberts Quackenbush Leadership Award from Alpha Xi Delta Fraternity. The award is presented to graduating senior women making significant contributions to the Fraternity and her chapter through chapter loyalty, campus leadership, community service and academic achievement. The award pays tribute to Elizabeth Roberts Quackenbush (Psi Chapter, Ohio State University) for her strong commitment to helping collegiate women realize their goals and potential for the future. The fraternity was founded in 1983 at Lombard College, now Knox College, in Galesburg, Illinois. It inspires women to realize their potential in the areas of education, leadership, scholarship and service to their community. Alpha Xi Delta has more than 130,000 initiated members and is represented on 112 college campuses.

Wow! **Jonathan Hastings** (CE'98) will have his painting exhibit at Café Francisco, 400 N. Main Street, Memphis, on January 9, 2004 April 1, 2004. It is entitled "Tribute To The Masters' Art Exhibit." He is also Estimator/Project Manager at Grinder, Taber & Grinder. A man of many talents! For more information, please contact him at jhasting@grindertaber.com.



FACULTY/STAFF NEWS

Congratulations to **Mr. John Ventura** (ECE) for being recognized by IEEE as Senior Member. This is the highest member rank in the organization. The qualifications include being an engineer or scientist (including educator), being in professional practice for at least ten years, and having shown significant performance over a period of at least five of those years.

Dr. Asit Ray (ChE) and **Dr. Bob Drake** (ECE) gave a talk recently to a group of East High students on “Packaging More Than Meets the Eye” and “Electrical/Computer Engineering,” respectively.

Thanks to the members of the Engineering Enrollment Committee: **Dr. Randel Price** (ChE), **Dr. Louie Lin** (ECE and Committee Chair), **Dr. Bob Drake** (ECE), and **Dr. Joe Londino** (ME). They have spent numerous hours in planning and implementing recruiting activities for the School of Engineering. Their efforts have resulted in many open houses this fall and upcoming high school student competitions in spring.

The School of Engineering recognized its two lab technicians, **Mr. Henry Rhodes** and **Mr. Roland Raffanti**, at its Christmas Party on December 11th. Both were recognized for their excellent service during the renovation of Saint Benilde Hall. Many thanks for their exceptional work!





The School of Engineering - Halloween 2003

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