

School of Engineering

CHRISTIAN BROTHERS UNIVERSITY

News - February 2001

ADMISSIONS/ ALUMNI RECEPTIONS

There will be Admissions/Alumni Receptions in New Orleans (LA), Nashville (TN), and Little Rock (AR) in March 2001. Engineering alumni are invited to attend these meetings. This is a great opportunity to meet and share your CBU experience with accepted students and their parents. If you plan to attend one of these meetings, please notify our Alumni Office by email at alumni@cbu.edu.



New Orleans, LA

Tuesday, March 13, 6:30 p.m. - 8:30 p.m.
The Pontchartrain Hotel
2031 St. Charles Avenue

Nashville, TN

Thursday, March 15, 6:00 p.m. - 8:00 p.m.
Loews Vanderbilt Plaza Hotel
McTyeire Room, 2100 West End Avenue

Little Rock, AR

Tuesday, March 20, 6:00 p.m. - 8:00 p.m.
Excelsior Hotel
#3 Statehouse Plaza

Also, local alumni will be calling accepted students on Tuesday, March 6 and Thursday, March 8 at CBU from 6 p.m. - 8 p.m. We are in need of volunteers. Food and drink will be provided. It's fun, easy, and it makes a difference in a student's decision. Interested alumni should email their name, major, and requested date to alumni@cbu.edu.

STUDENT NEWS

Congratulations to the engineering students listed below for being named a Dean's List student for fall 2000 semester. To make the Dean's List, a student must earn a grade point average of no lower than 3.4 for the semester with the completion of at least 12 credit hours.

Chemical Engineering:

Jyoti Gupta, Megan Pilkington, Zachary A. Robbins, Nathan M. Daulton, Kyle T. Dorgan, Jarred P. Drewry, Kerri M. Kurrus, Dana C. McFerrin, Shawna M. Roussel, Crystal G. Ferguson, and John E. Fuss

Civil & Environmental Engineering:

Robert C. Owen, Jason M. Deweber, Nathan C. Luce, Kerry R. Moskal, and Erik A. Weghorst

Electrical & Computer Engineering:

Stephen M. Avanzi, Maria-Teresa Blanco, Sarah C. Davis, Shalini Gupta, Andrew Howard Jr., Lingfang Huang, William H. Petermann, Joseph B. Qualls, Johan M. Reimann, Akhil J. Rodrigues, Brandon S. Cartwright, Brandon D. Culley, Shane F. De Lima, Lisa M. Lavie, David A. Schaefer, David A. Swaney, Lena Thieu, Phuoc N. Tran, Teresa L. Fuller, Gieselle M. Mendonca, Ayan Mitra, and Soumabha Mukherjee

Mechanical Engineering:

Kenneth R. Adelman, Bryan A. Brandon, Donald E. Brown, William E. Hurt IV, Justin E. Ivancic, Jay A. Casey, Aaron S. D'Souza, Favian E. De Lima, Gregory A. Doyle, Yin K. Lam, Katherine E. Logerot, Garrett D. Martin, Lawrence M. Martin, William S. Mason, Charles E. Stevens, Carrie D. Mills, Michael Morris, Marvin W. Webb, and Kristofer K. Westbrook

Kimery Lee, Richard Carter, and Kimberly Simmons of the CBU chapter of the National Society of Black Engineers (NSBE) attended the Spring Regional Conference of NSBE in Tuskegee, AL, on February 2-4, 2001.

As part of National Engineers week activities, each engineering



department recognized one Featured Engineering Student within the major. Congratulations to the following featured engineering students:

- **Crystal G. Ferguson** - 2001 Featured Chemical Engineering Student
- **Robert C. Owen** - 2001 Featured Civil & Environmental Engineering Student
- **Maria T. Blanco** - 2001 Featured Electrical & Computer Engineering Student
- **Jeffrey Lau** - 2001 Featured Mechanical Engineering Student

The School of Engineering also recognized a Featured Engineering Student. The 2001 Engineering Featured Engineering Student Award went to **Maria T. Blanco**. Maria is an ECE major with 3.82 GPA and an honors student. She has been on the Dean's List every semester since she joined CBU in 1997. Her activities with student organizations include Vice President of IEEE, President of Tau Beta Pi, President of Alpha Chi, President of Intercultural Club, and President of National Society of Professional Engineers. She was elected President of District 6 of Tau Beta Pi, which covers all Tau Beta Pi chapters in Alabama, Kentucky, Mississippi, and Tennessee. She was also elected Chairman of the Constitution and Bylaws Committee at the Tau Beta Pi Annual Convention, held in San Francisco, CA, on October 5, 2000. Maria has received many awards, including Sophomore of the Year, Resident Assistant of the Month, and Who's Who Among Students in American Universities and Colleges. She worked as a tele-counselor, math tutor, resident assistant, and work-study student at CBU. Her other off-campus activities are a volunteer work at St. Jude Children's Research Hospital and Ronald McDonald House.

ALUMNI NEWS

Congratulations to **Seth Brown** (CE'95) for passing the PE exam recently. He is now a registered professional engineer in the State of Maryland. After graduating from CBU, Seth worked at Fisher & Arnold and later got his M.S. degree in water resources from the University of Maryland at College Park. His thesis was on developing a model that gives an estimation of stream geometry at a location based upon watershed characteristics draining to that point. He is now with GKY & Associates (www.gky.com) in Springfield, Virginia. The firm runs the Hydraulics Lab for FHWA and does high-level water resources modeling. Seth is doing watershed and water quality modeling with a specific interest in GIS applications in the modeling of the environment. When he was asked recently about his CBU experience, Seth replied, "*The key way that CBU helped me out was through the one-on-one*



interactions with professor. After going to graduate school at a large university, I had a much greater appreciation of CBU's personal style. It was much more difficult to get assistance from a professor in graduate school, and I cannot imagine how difficult it would be for an undergraduate student to get assistance. Some students don't need this type of attention, but those of us who had to work a little harder to grasp the concepts introduced to us got the help we needed to understand. It seemed that if you wanted to work hard enough to learn something, there was somebody there to help you understand at CBU."

Also congratulations to **Odell Johnso, Jr.** (ME'92) and **Matthew J. Odom** (CE'96) for passing the PE exam recently. Being a registered professional engineer is another career milestone for engineers.

Arthur Eberle (ChE'82) owns Compliance Assurance Associates, Inc. (www.compliance-assurance.com). The firm supplies a full complement of air pollution control alternatives and some process equipment. Recent projects include a thermal oxidizer on a bio-derived diesel plant, an SCR to reduce NOx, expansion of a steel mill dust collection system, a process cooling system at building materials plant, and two vapor recovery projects. CAA, Inc., provides permitting assistance, technical application assistance, installation services, and management of compliance performance testing of the installed equipment. Art said, "*Without Chemical Engineering I would not have had even the opportunity. Without CBU I would not be a chemical engineer.*"

Joe Corner (CE'89) is now with Structural Design Group (www.sdg-structure.com). SDG was founded in June of 1999 to provide structural engineering and professional services. It currently employs twenty-four engineers: CAD drafters and administrative personnel, with an average of nearly seventeen years experience each. Joe travels on average once or twice a week. He said, "*The job keeps me pretty busy.*"

FACULTY NEWS

Welcome to CBU Engineering! **Dr. Robert L. Drake** joined the Electrical & Computer Engineering Department this semester as an adjunct professor. Dr. Drake earned his B.S. and M.S. from Tulane University and Ph.D. from Mississippi State University. He is a registered professional engineer in Tennessee and Louisiana. He taught at Tulane University and the University of Tennessee at Martin. His industrial experience includes working for Space Technology Laboratories of Ramo-Woolridge in California and Buckeye Cellulose in Cincinnati, Ohio.



Dr. Mike Santi

Dr. Michael Santi (Mechanical Engineering) received a grant renewal of \$57,737 for research to be performed during a period of five months. His research is entitled "Robust Strategy for Rocket Engine Health Monitoring - Method Enhancements." His research has been granted \$144,264 to date by the NASA Glenn Research Center/Space Systems and Grants Branch in Cleveland, OH. Congratulations!

Each engineering department and the graduate program recently recognized a faculty member as 2001 Featured Engineering Faculty. Congratulations to the following:

- **Dr. Asit Ray** - 2001 Featured Chemical Engineering Faculty
- **Mr. Fred Sock** - 2001 Featured Civil & Environmental Engineering Faculty
- **Mr. John Ventura** - 2001 Featured Electrical & Computer Engineering Faculty
- **Dr. Michael Santi** - 2001 Featured Mechanical Engineering Faculty
- **Dr. Neal Jackson** - 2001 Featured Engineering Management Faculty



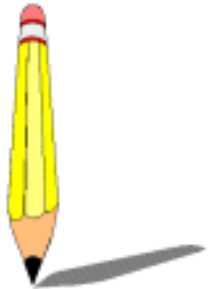
John Ventura, P.E.

Also congratulations to **Mr. John Ventura** for being named recently by the School of Engineering as the 2001 CBU Featured Engineer. John graduated from CBC with a B.S. in Electrical Engineering in 1965. He later earned a M.S. degree from University of Florida. He is working toward his Ph.D. at Nova Southeastern University in Computer Technology in Education Program. John taught at CBC during 1967-1972. He left CBC to pursue various industry jobs. He was Public Works Director and City Engineer for the City of Greenville, MS, from 1992 to 1998. He rejoined the Electrical & Computer Engineering Department in 1999. John is a registered professional engineer in Mississippi and Tennessee. He is also a registered surveyor in Mississippi. He was a past chapter president of the Mississippi Society of Professional Engineers. Currently, he is on the Board of Directors for the Memphis Chapter of the Tennessee Society of Professional

Engineers.

During the year 2000, CBU engineering faculty members published the following journal articles, conference papers and abstracts, etc.:

- **Robert Blanks** and **Henry Luttrell**, "A New ChE Project Course," *Excellence in Teaching ~ 2000, A Professional Development Workshop*, Christian Brothers University, August 17, 2000. (Abstract)
- Donald Daveport and **L. Yu Lin**, "Memphis Metro Comprehensive Study," *Proceedings of the MAESC 2000 Conference*, Memphis, TN, May 2000. (Abstract)
- **Neal Jackson**, "Using the Malcolm Baldrige Criteria to Assess Graduate Engineering," *Proceedings of the MAESC 2000 Conference*, Memphis, TN, May 2000.
- **L. Yu Lin**, "Drinking Water from Wells, Not from the River: A Case Study," in *Regional Perspectives in Environmental Science*, McGraw-Hill, 2000. (<http://www.mhhe.com/biosci/pae/environmentalscience/casestudies>)
- **L. Yu Lin**, Tracy James, and Lee Fletcher, "Irrigation Pipe Network Design," *Proceedings of the MAESC 2000 Conference*, Memphis, TN, May 2000. (Abstract)
- **L. Yu Lin**, Tracy James, and Lee Fletcher, "Irrigation Pipe Network Design Using Geographic Information System," *Environmental and Pipeline Engineering 2000*, edited by Rao Y. Surampalli, American Society of Civil Engineers, pp. 531-540, 2000.
- **K. Madhavan**, "Capstone Design Course in Civil & Environmental Engineering," *Excellence in Teaching ~ 2000, A Professional Development Workshop*, Christian Brothers University, August 17, 2000. (Abstract)
- **Siripong Malasri**, "Book Review: The McGraw-Hill Handbook of Distance Learning," *Journal of Professional Issues in Engineering Education and Practice*, ASCE/NSPE, Vol. 126, No. 1, pp. 41-42, January 2000.
- **S. Malasri**, "Supplementing Traditional Teaching & Learning with Distance Education Technology," *Excellence in Teaching ~ 2000, A Professional Development Workshop*, Christian Brothers University, August 17, 2000. (Abstract)
- **Siripong Malasri**, "Challenges for Engineering Education in the 21st Century," *Proceedings of the MAESC 2000 Conference*, Memphis, TN, May 2000.
- **S. Malasri**, **K. Madhavan**, and **John Ventura**, "Should Engineering Faculty be Registered?" *Proceedings of the MAESC 2000 Conference*, Memphis, TN, May 2000.
- Jim Nguyen and **Robert Blanks**, "Optimal Design of a Propylene/Propane Spitter Distillation Column," *Proceedings of the MAESC 2000 Conference*, Memphis, TN, May 2000. (Abstract)
- **Juan Carlos Olabe**, "Engineering Education and the Internet: State of the Art in 2000," *Proceedings of the MAESC 2000 Conference*, Memphis, TN, May 2000. (Abstract)
- **Juan Carlos Olabe**, Xabier Basogain, and Mikel Olabe, "Video Traffic Modeling of Full-Length VBR Video for Efficient Broadband Network Simulation," *Proceedings of the 14th European Simulation Multiconference*, Ghent, Belgium, May 2000.
- **J. C. Olabe**, M.A. Olabe, and J. Mouzna, "Engineering Education and the



Internet: A Project for Global Access to Quality Education," *Proceedings of the 2000 International Conference on Engineering Education*, Taipei, Taiwan, August 2000.

- Jy-Gau Sah and L. Yu Lin, "Heavy Metal Removal Using Electrokinetic Technology," *Environmental and Pipeline Engineering 2000*, edited by Rao Y. Surampalli, American Society of Civil Engineers, pp. 368-377, 2000.
- Jy-Gau Sah and L. Yu Lin, "Electrokinetic Study on Copper Contaminated Soils," *Journal of Environmental Science and Health*, Volume A35, No. 7, pp. 1117-1139, 2000.
- L. Santi and J. Butas, "Generalized Data Reduction Strategy for Rocket Engine Applications," *Proceedings of the 36th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit*, Huntsville, Alabama, July 2000.
- Luis Tercero and Robert Blanks, "Feed Addition Policies for Distillation Columns Separating Multi-Component Mixtures," *Proceedings of the MAESC 2000 Conference*, Memphis, TN, May 2000. (Abstract)

A faculty publication archive can be found at www.cbu.edu/engineering/facpub.

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