

School of Engineering

CHRISTIAN BROTHERS UNIVERSITY

News - November 2002

ENGINEERING ALUMNI PANEL

Thanks to **Justin Cash** (ChE'00) of Buckeye Technologies, **Brian Walker** (CE'95) of M&H Construction, **Darren Greenburg** (CE'91) of ATC Associates, Inc., **Jessica Becker** (ME'94) of Smith & Nephew, Inc., and **Stephanie Cianciola** (ME'96) of Allen & Hoshall for serving as panelists at the Engineering Alumni Panel on October 24. **Paul Babin** (EE'82) served as moderator of the session. The room was packed with students.

Below are student comments about the session:

- *"I liked getting the perspective of the graduates verses the amount of time since they graduated, they all seemed a little different, based on time out of school."*
- *"I enjoyed listening to different career paths people chose. But I have heard quite a bit of that information before."*
- *"Overall I enjoy the alumni involvement and would like to see more of it."*
- *"I liked it. Having one engineer lead the session was a good idea. It had a wide range of engineers and wide range of ages. So overall it was very beneficial to attend."*
- *"Provided good information about what it was like in the workplace."*



From left to right:
Stephanie Cianciola, Brian Walker, Darren Greenburg,
Jessica Becker , and Justin Cash

More pictures of the session can be viewed at: <http://www.cbu.edu/engineering/AlumPanel02Pictures>.

HALLOWEEN COSTUMES @ CBU ENGINEERING

Who said that engineering has to be serious all the time. We really had a lot fun on Halloween day. Check out the web page at: <http://www.cbu.edu/engineering/Halloween02Pictures>. Do you remember some of your favorite engineering professors or former professors? Too bad we did not have engineering alum and students participating this year. Maybe next year!



Can you identify all individuals above?

GEORGE I. ALDEN TRUST GRANT

Last October the George I. Alden Trust, based in Worcester (MA), granted the CBU School of Engineering \$25,000 toward the Benilde Renovation Project. The money will be used to retrofit the Fluid Mechanics Laboratory in Benilde Hall.



George Alden taught mechanical engineering for twenty-eight years at Worcester Polytechnic Institute. He and his colleague **Milton Higgins** received national recognition in the 1880s and 1890s for their work in engineering education that combined practice with theory. Mr. Alden invented a dynamometer for measuring the power of machines and hydraulic elevators. He established the George I. Alden Trust in 1912 with the following general purpose of "... *the promotion of education in schools, colleges, or other educational institutions...*" The Trustees support institutions that demonstrate a combination of educational excellence, exciting programming, and efficient and effective administration.

Thanks to **Ms. Lisa Bell** (IA), **Dr. Ali Pourhashemi** (ChE), **Dr. L. Yu Lin** (CEE), and **Dr. Siripong Malasri** (Dean) for putting together the proposal.

ENGINEERING ENTREPRENEURSHIP CERTIFICATE

The School of Engineering is pleased to announce a joint Engineering Entrepreneurship Certificate with the School of Business. This certificate program is effective immediately and is available to current students and others as well.

Requirements:

The certificate program requires fifteen credits of business courses and fifteen credits of engineering courses. One must pass each course and maintain at least an average GPA of 2.0 in each of the fifteen credits above.

The business courses are:

- ITM 153 Intro to Computers & Bus Apps. (3 crs.)
- ACCT 260 Financial Accounting (3 crs.)
- MGMT 337 Prin of Org & Management (3 crs.)
- MKTG 311 Principles of Marketing (3 crs.)
- MKTG 440 Entrepreneurship (3 crs.)

The engineering courses are:

- ChE/CE/ECE/ME 314 Engrg Economy (3 crs.)
- Other engineering courses (12 crs.)

For more information, please contact **Dr. Neal Jackson**, Engineering Entrepreneurship Certificate Coordinator, at njackson@cbu.edu or (901) 321-3283. You may also contact **Dr. Siripong Malasri**, Dean of Engineering, at pong@cbu.edu or (901) 321-3419.



SPRING COURSE NOTES

ChE 320 Distribution Packaging (3 crs.)

T R 5:00 p.m. – 6:15 p.m.

Description: Overview of the physical distribution systems, various distribution hazards imposed on products/packages in transit, rules and regulations governing distribution packaging, common industry guidelines and practices on distribution packaging. Study the package design process, protective packaging theories and applications, selection and design of distribution packaging, other distribution packaging related materials and applications. Introduction to package testing and evaluation methods, standards, and equipment/systems.

If you are interested in pursuing a Packaging Engineering Certificate, this course is required. You must pass at least a college-level chemistry course and a college-level calculus course before you can take this course. This course is ideal for ChE majors, ME majors, and those from industry who are involved with packaging. The course will be team-taught by **Mr. Yongquan Zhou** (FedEX Packaging Engineer) and **Dr. Asit Ray** (ChE Professor). For more information about the certificate program, please refer to the web site at <http://www.cbu.edu/>



[engineering/packaging.html](http://www.cbu.edu/engineering/packaging.html).

PHIL 324 Technology and Human Values (3 crs.)

T R 11:00 a.m. – 12:15 p.m.

Description: A philosophical examination of social and ethical issues relating to technology. Topics include the ethical responsibilities of engineers; ethical and social issues associated with risk assessment, environment and resources, and technology in a global context; and the impact of modern technology on human values. Prerequisite: Junior standing.



This course fulfills the moral values requirement, which is one of the six liberal studies courses required in our engineering programs. It is highly recommended for engineering majors since it covers engineering ethics.

PSYC 301 Engineering Psychology (3 crs.)

M W F 10:00 a.m. – 10:50 a.m.

Description: Engineering psychology, also called human factors, ergonomics or usability engineering, deals with the importance of designing for human use. Equipment that is not ergonomically sound will be operated a little more slowly and be a little more prone to error. There are certain basic limitations to human performance. Our goal in this class is to provide a solid foundation in the principles of human performance and a broad overview of the field of human factors. This class provides the student with an understanding of the variables that influence human performance and the ways in which the human factors expert draws on this knowledge. The organization of the class is based on viewing the human as an information-processing system. The information-processing approach provides a common referent for studying both humans and machines. Human factors research and design decisions must be based on a thorough understanding of basic principles of human performance. The theoretical analysis of human performance requires frequent contact with real-world situations in which people actually perform. This course provides an integrated approach to the study of human factors, embedding the principles of human factors within a foundation based on contemporary views of human performance. Topics include the following: perception, cognition, movement, and environment.

If you are interested in pursuing Engineering Psychology Minor, this course is required. It also fulfills the social studies requirement. Our engineering programs require two social studies courses (out of the six liberal studies courses). This is a course that is specifically designed for engineering majors.

THE 2003 GREAT MOONBUGGY RACE



Each year CBU's Mechanical Engineering Department allows a group of four seniors to enter the Great Moonbuggy Race sponsored by NASA Marshall Space Flight Center in Huntsville, Alabama. Last year, CBU was ranked 12th out of 31 teams. The year before, we ranked 8th out of 30 teams. The group anticipates a budget for materials and parts of \$4,000 for the 2003 CBU moonbuggy. To provide financial support, please contact **Joe Green** at (901) 321-3782 or jgreen@cbu.edu or **Dr. Paul Shiue** (Faculty Advisor) at (901) 321-3424 or pshiue@cbu.edu. Check out our moonbuggy website at <http://www.cbu.edu/Clubs/mbsquad/MBSquad.htm>.

STUDENT NEWS

Andrew Warren (CEE) was recognized at the October 3 Recognition Dinner as the first recipient of the James L. Guy Scholarship, which was established in the fall of 1998 by a group of CBU alumni. **Bonita Sammarco** (CE'82) and **Bobby Fisher** (CE'70) led the fundraising effort for the scholarship to honor Mr. Guy. Alumni, friends, and businesses across the Mid-South have contributed over \$70,000 to the endowment for the scholarship. Andrew was the 2002 valedictorian from West Memphis High School. His record includes Eagle Scout and the 2001 Arkansas State Trigonometry Champion. He also was active with youth activities at First United Methodist Church in West Memphis. Andrew is currently a freshman in the Department of Civil & Environmental Engineering.



Congratulations to the following engineering students who were

recognized recently at the CBU Scholarship Luncheon:

- **Lee R. Allen** (ME) – Lloyd B. Lovitt Memorial Endowed Scholarship
- **Amanda Alsbrook** (ME) – School of Engineering Faculty Staff Scholarship
- **Stephen M. Avanzi** (ECE) – The Knapp Foundation Annual Scholarship
- **Victor H. Bach** (ME) – Mr. & Mrs. Jack Casagrande Annual Scholarship
- **Stephen M. Baker** (ECE) – Woody Jenne & Ernie Micek Endowed Scholarship in Engineering
- **Jeremiah M. Beisner** (ECE) – Jules Rozier Memorial Scholarship
- **Ben B. Bondurant** (ECE) – The 100 Club Endowed Scholarship
- **Jay A. Cassey** (ME) – Mr. & Mrs. Jack Casagrande Annual Scholarship
- **Paul V. Crow** (ME) – Virginia O'Hara Memorial Scholarship
- **Nathan Daulton** (ChE) – Katherine G. McEniry Memorial Scholarship
- **George B. DeJean** (ME) – Mr. & Mrs. Robert G. McEniry Annual Scholarship
- **Kyle T. Dorgan** (ChE) – Brother Theodore Drahmman Endowed Scholarship
- **Leon A. Faison** (ECE) – Mr. & Mrs. Willis H. Wiley III Annual Scholarship
- **Jennifer K. Foley** (ECE) – Charles A. Frueauff Foundation Annual Scholarship
- **Daniel C. Gafford** (ChE) - Charles A. Frueauff Foundation Annual Scholarship
- **Jyoti Gupta** (ChE) – Mr. Richard T. Gadomski Annual Scholarship
- **Eric Gustafson** (ME) - Woody Jenne & Ernie Micek Endowed Scholarship in Engineering
- **John M. Gustafson** (ME) – Mr. & Mrs. Jack Casagrande Annual Scholarship
- **Michael V. Hibler** (Unspecified Engrg) – Dolores Gadomski Valedictorian Endowed Scholarship
- **Jeffrey T. Higgins** (Unspecified Engrg) - Brother Theodore Drahmman Endowed Scholarship
- **Joshua D. Holtgrewe** (ECE) – Mr. James Gallagher Annual Scholarship
- **Wesley A. Hoover** (ChE) – John (Mickey) Boshers Memorial Endowed Scholarship
- **John G. House** (ME) – Mr. & Mrs. Robert G. McEniry Annual Scholarship
- **Edward A. Hug** (ME) – John S. & Lynda Shea Endowed Scholarship
- **Theresa I. Humphrey** (ME) – Lettie Pate Whitehead Foundation Annual Scholarship
- **Justin E. Ivancic** (ME) – Kevin Joseph Barth Endowed Scholarship in Engineering
- **Melissa E. Johnson** (CEE) – The Knapp Foundation Annual Scholarship
- **Michael D. Johnson** (ME) - Woody Jenne & Ernie Micek Endowed Scholarship in Engineering
- **Stewart A. Julian** (ChE) – Dolores Gadomski Valedictorian Endowed Scholarship
- **Austin King** (ECE) - Woody Jenne & Ernie Micek Endowed Scholarship in Engineering
- **Jeffrey D. King** (ME) - Woody Jenne & Ernie Micek Endowed Scholarship in Engineering
- **Roy D. Lamica** (CEE) - Charles A. Frueauff Foundation Annual Scholarship
- **Haoyan Lan** (ECE) – Mr. And Mrs. Louis C. Kula Annual Scholarship
- **Lisa M. Lavie** (ECE) - Lettie Pate Whitehead Foundation Annual Scholarship
- **Nathan C. Luce** (CEE) – Mr. & Mrs. Fred Montesi III Annual Scholarship
- **Ayan Mitra** (ECE) – Brother Philip Morgan Endowed Scholarship in Engineering
- **Steven L. Moore** (ChE) – Dolores Gadomski Valedictorian Endowed Scholarship
- **Ashley Newbern** (Unspecified Engrg) – Women's Soccer Endowed Scholarship





- **Truc C. Nguyen** (ECE) – James & Patricia Metz Endowed Scholarship in Engineering
- **Rachael A. Park** (ChE) - Lettie Pate Whitehead Foundation Annual Scholarship
- **William H. Petermann** (ECE) – Mr. James Gallagher Annual Scholarship
- **Christopher M. Ramberg** (ECE) – Dolores Gadomski Valedictorian Endowed Scholarship
- **Anna K. Rask** (ME) – Women’s Soccer Endowed Scholarship
- **Sofia M. Rask** (ME) – Women’s Soccer Endowed Scholarship
- **Benjamin T. Reves** (ChE) - Woody Jenne & Ernie Micek Endowed Scholarship in Engineering
- **Derrick Rivers** (ECE) – Mr. & Mrs. Winn R. Stephenson Annual Scholarship
- **Lamar C. Rutland** (ME) - Charles A. Frueauff Foundation Annual Scholarship
- **Neko N. Sharkey** (CEE) – Tennessee Independent Colleges & Universities – UPS Annual Scholarship
- **Phung C. Tran** (ME) – Cargill, Inc. Endowed Scholarship in Engineering
- **Robert E. Turneage** (ECE) – Mr. & Mrs. David P. Nicholas Annual Scholarship
- **Jonathan D. Underwood** (ECE) - Charles A. Frueauff Foundation Annual Scholarship
- **Daniel A. Valentine** (ME) – Mr. And Mrs. David E. Berges Annual Scholarship
- **John H. Wall** (ME) – Mr. James P. Matthews Annual Scholarship
- **Henry Wang** (ME) – Mr. & Mrs. Jack Casagrande Annual Scholarship
- **Andrew J. Warren** (CEE) – James L. Guy Scholarship
- **Nathan D. Webb** (ME) - Woody Jenne & Ernie Micek Endowed Scholarship in Engineering
- **Erik A. Weghorst** (CEE) – The Pickering Firm Annual Scholarship
- **Rachael L. Wehner** (ME) - Charles A. Frueauff Foundation Annual Scholarship
- **Zachary C. Wilkinson** (ME) - Woody Jenne & Ernie Micek Endowed Scholarship in Engineering
- **Charlene Yeung** (ChE) – R. Wayne & Daveen Speer Annual Scholarship
- **Peter A. Young** (Unspecified Engrg) – Engineers’ Club/Proutt Memorial Endowed Scholarship

FACULTY/STAFF NEWS

Dr. Joseph Londino (ME) assumes the leadership as President of the Memphis- Midsouth Chapter of the American Society of Mechanical Engineers (ASME). **Arthur Harman** (ME'60) and **Jeff Talley** (ME'90) serve as Treasurer and Director, respectively.

Dr. L. Yu Lin (CEE) has an article entitled "Nitrogen Removal in Leachate Using Carrousel Activated Sludge Treatment Process," that appeared in the *Journal of Environmental Science and Health*, Vol. A27, No. 9, pp. 1607-1629, 2002. He also recently attended the Drinking Water Protection Workshop arranged by the State of Tennessee, Department of Environmental and Conservation. The workshop was designed to raise awareness on protecting drinking water in Tennessee.



Dr. Bernard Beard (ME Chair) attended an ASME-sponsored ABET/EC2000 Workshop in New Orleans on November 17.

Dr. Siripong Malasri (Dean) gave a talk about the CBU Packaging Engineering Certificate Program at the recent meeting of the Mid-South Chapter of the Institute of Packaging Professionals (IoPP). Members of

CBU Packaging Advisory Group and packaging faculty also attended the meeting.

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