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November 4, 2011

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“Improvement makes straight roads: but the crooked roads without improvement are roads of genius.” ~ William Blake

CEAS News

Eaton Engineers' Hybrid Research at CEAS

Eaton is one of many companies that have engineers working on hybrid battery systems and motor drive systems but what is different about some of Eaton's project research is that they are working on these new systems in the CAViDS Hybrid Electric Applied Research (CHEAR) lab here at CEAS.

The Eaton researchers have been working on the motor drive system for two years and **Dr. Xiaosong Kang** the power electric engineer manager from Eaton, shared that they hope to have the production design ready for release in the second quarter of 2012. Kang also stated that the battery system project has been ongoing for about one year with the goal of a first quarter of 2012 release of the battery production design. WMU Mechanical and Aeronautical engineering Professor **Dr. William Liou**, is also



L-R: Graduate student Sazzad Hussain Ahmed working on the battery system with Dr. Xiaosong Kang.

the director of the CHEAR lab, and he explained that the large Thermotron environmental chamber pictured is capable of testing the entire battery typically used for a medium duty truck. Also, the humidity can range between 10% and 98%, and temperature (-95°F to +355°F).

Dr. Othman Elkhomri a power electronic control engineer from Eaton, indicated that work in the CHEAR lab is going well and that it is a great site not only for the projects research but it also provides an opportunity for the students that work alongside them to get the actual

Chemical Engineering Students Awarded Armstrong International Scholarship



L-R: Rich Edwards, Pia Jian Tan, Casey Kick, Dean Anthony Vizzini, Katie Risnes, Tom Henry, Nicholas Woltors, Patrick Armstrong, Adam Kulberirtis, Bradley Wishart, Tom Hiatt, and Dr. Said AbuBakr.

Congratulations to Pia Jian Tan, Casey Kick, Katie Risnes, Nicholas Woltors, Adam Kulberirtis, and Bradley Wishart who were Armstrong Energy Management scholarship recipients.

The scholarships were awarded to students who are pursuing the Energy Management option within the Chemical Engineering program here at CEAS. The awards are typically given to juniors and seniors and are given on an annual basis by Armstrong International which is a multi-national and family-owned company that develops intelligent system solutions for steam, air, and hot water.

Patrick Armstrong is the President and CEO of Armstrong International and was also a 2011 CEAS Alumni Excellence Academy Inductee. Rich Edwards, Tom Henry, and Tom Hiatt are also Armstrong International executives who attended the presentation of the awards. Dr. Anthony Vizzini, dean of CEAS and Dr. Said Abubakr, professor and chair of PCI were also present.

experience in the project application to go along with the theory learned in the classroom. Dr. Liou also specified that Eaton has had engineers from all over the U.S and from other countries such as China and India working on research at CHEAR Lab, which adds an international contribution to the research, not to mention the students' chance to work in a global environment.

Lois Lemon Receives the Michigan Printing Week Association's 2012 Ben Franklin Award



Congratulations to Lois Lemon on her receiving the Ben Franklin Award for 2012 Educator of the Year from the Michigan Printing Week Association. Lois is a master faculty specialist in the Paper Engineering, Chemical Engineering and Imaging department.

The original purpose of the Detroit Area Printing Week committee was to hold an annual event for members of sponsoring graphic arts groups. Since their beginning in 1982 the organization's membership has grown to include graphic arts clubs and professionals throughout Michigan and so the Michigan Printing Week Association was established.

During this year's annual Ben Franklin Award Dinner, named after the father of American printing, the association will be honoring 2012 recipients for three categories including individual, company, and educator of the year.

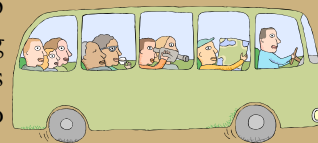
Senior Design Project Conference Coming up in December

You are invited to attend the forty-ninth Conference on Senior Engineering Design Projects. The conference will be held from 9:00 a.m. to 3:30 p.m., **Tuesday, Dec. 6th** at the College of Engineering and Applied Sciences on the Parkview Campus of Western Michigan University. The College of Engineering and Applied Sciences sponsors the conference to showcase the work of its graduating seniors, who are required to complete a capstone project that puts into practice what they have learned. Many of the projects are sponsored by business and industry.



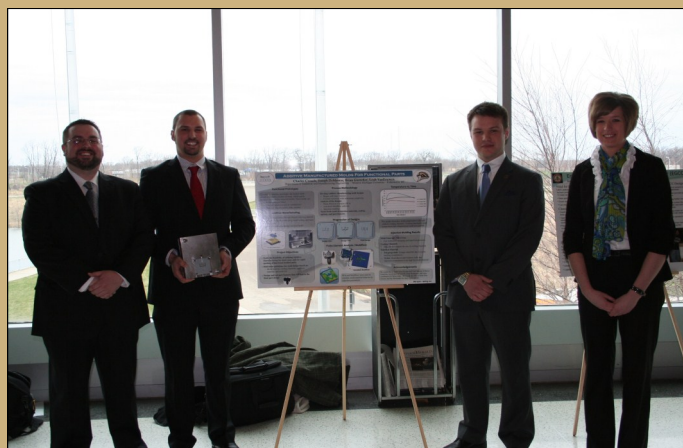
1st Annual Michigan Industry Road Trip

The Michigan Industry Road Trip that is being coordinated for spring break 2012 (March 5th - 9th) has been finalized and is now available to those interested in applying. For your convenience, the packet can be downloaded at:



[Industry Road Trip 2012 Application Packet](#).

The Michigan Industry Road Trip is a brand new 5-day trip meant to give CEAS students the opportunity to visit world-renowned companies within Michigan during WMU's spring break. While traveling across the state in a chartered bus and staying at hotels in the Grand Rapids, Lansing, and Detroit communities, the participants will be touring companies, networking with professionals, connecting with WMU Alumni in industry, and learning about all of the incredible engineering opportunities available to college students/graduates in Michigan. Career and Student Employment Services reported that freshmen and sophomore students are strongly encouraged to apply for this dynamic program, although the selection committee will also likely consider students with junior status for this year's trip. Students selected for the program will pay a registration fee of \$250; the fee covers lodging, transportation, and most of the meals incurred during the trip. There are also two \$250 STEP scholarships for selected students who are part of the STEP program (the scholarship covers the registration fee). The application deadline is Friday, December 9th. Starting next week, application packets can be picked up at the CEAS Advising Complex (E-102), 1401 Ellsworth Hall (Career Services), and online by clicking on the link above.



The conference is **free** and open to the public. You are welcome to attend all or part of the day's events. Reservations are not necessary. High school and community college educators are encouraged to bring students to the conference. Buses can drop off passengers in the College Circle in front of the building and then park in lot P-2. For more information contact **Tamara Bergman** at (269)276-3248.

Brochures are available online also at:

[Senior Design Project Brochure](#)