

Mechanical Engineering Technology News

<http://www.umaine.edu/set/met/>

Herb Crosby Wins Public Service Achievement Award Winner!

Please offer your congratulations to Mechanical Engineering Technology Professor Herbert Crosby, who was named the winner of the University of Maine 2007 Presidential Public Service Achievement Award during the May 11, 2007 Honors Convocation. He was also recognized for this honor during the May 12, 2007 commencement ceremonies. Herb insists that it is the students, and not him, who deserve recognition for the many public service projects completed in the capstone projects class over the years.

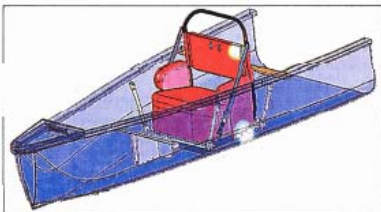
Dvorak Receives Fulbright Scholar Grant

“David Dvorak, director of the UMaine School of Engineering Technology and professor of mechanical engineering technology, has received a Fulbright Scholar grant to lecture and conduct alternative energy research at the University of Akureyri in Iceland during the upcoming academic year.

An expert in alternative energy, specifically fuel cell technology, Dvorak intends to continue his work with researchers in Iceland and help develop a new graduate program in the recently opened School of Renewable Energy Resources, which focuses on developing new energy sources, including geothermal, hydro, wind, tides, solar, biomass, fuel cells and hydrogen.” From the UM press release at http://www.umaine.edu/news/article.asp?id_no=1754

Capstone Project News

One of the two “winning” capstone projects this year was highlighted in the Bangor Daily News on Thursday, May 3, 2007 by John Holyoke in the Sports section with the title “UMaine group unveils canoe seat for Brewer High student.” The article included a SolidEdge parametric solid modeling rendering of the canoe seat on both the front page of the paper and in the article.



This rendering of a canoe seat is the one that a group of University of Maine students constructed for Brewer High School outdoor education member Catherine Jaibert.



PHOTO COURTESY OF NATHAN PASSMORE
Joe Orsino (left), Tyler Brownell, Nathan Passmore, Mick Daigle and Phil Reed pose with Catherine Jaibert of Brewer and the adaptive canoe seat they designed for her as their senior capstone project in mechanical engineering technology at the University of Maine.

Other capstone projects this year included a flow bench for use in an MET laboratory class, two heat pumps, and improvements to an all-terrain vehicle. See the MET web site for additional details including the project posters citing the many donors contributing to the success of the program.

Gifts to MET Program Improve Laboratory Facilities and Equipment

The MET program thanks its friends and donors for making possible several improvements to the Machine Tool Laboratory facilities and equipment.

The program has received storage units have allowed us to move from “horizontal storage” to “vertical storage” of tooling and equipment, thus making available floor space that was previously inaccessible. The program also received several roll-around tool boxes for use by the capstone projects groups. We are still seeking

In addition, donations allowed us to upgrade the CNC lathe and mill controllers to be networked to a computer in the laboratory via USB ports – meaning students can now also use their portable USB drives to transfer programs from laboratory computers to the CNC machine tools.

New Joint Materials Testing Laboratory

The Mechanical Engineering department has agreed to develop with the MET program a shared Materials Testing Laboratory in the Machine Tool Laboratory building. Mechanical Engineering will now house its Brinell hardness and Charpy impact

test equipment and its multi-cool bath in the designated area, and MET will house an existing Rockwell test machine and an optical comparator in the area. In addition, laboratory fees will be used to purchase a new Blue-M high-temperature furnace, a quench tank, and a jominy quench fixture for the tank. Funding or direct donation is sought for a second Rockwell test machine, due to the large amount of Rockwell testing completed in the Engineering Materials class.

Student News

Spring Awards Reception: 9 MET students earned Presidential Achievement Awards for maintaining a 3.5 GPA for two consecutive semesters. Trevor Pennell was awarded the School of Engineering Technology Rodney E. Gallant Memorial Scholarship, Lindsey Belanger was awarded the Hovey Award, and Kaitlin Guildford was awarded the MET Karl Webster Scholarship.

Other Scholarships Awarded: 3 MET students were awarded Pulp and Paper Foundation scholarships.

Phi Kappa Phi: Kaitlin Guildford was inducted into the prestigious Phi Kappa Phi Honor Society as one of the top inductees at the University of Maine.

Friends and Alumni News

Faculty, Alumni, & Student Recognition — MET alumnus Scott Humphrey is serving as the Eastern Maine Medical Center plant operation manager for the new co-generation plant and recently provided students a tour of the plant.



Anyone who is aware of alumni who have received awards, please send an e-mail to Karen.Horton@umit.maine.edu.

MET Program News

Inclusion of Underrepresented Students: MET has received its first donation to develop a program to attract and integrate underrepresented students into our programs. We want to see young women and minority students apply to our program! It's a great career field for anyone – and besides, designing and making stuff is fun! We encourage schools, individuals and companies to partner with us in this effort. If your company has programs in place to attract and retain women in technical careers, or if you know young women or minority students you'd like us to recruit, please call or email Karen Horton at 207-581-2136 or Karen.horton@umit.maine.edu.

MET Program Needs

Capstone Project Facilities

Qty	Item	Cost
5	Roll-around work surface	\$350 each
5	Lockable storage units	\$500 each

Machine Tool Laboratory

Qty	Item	Cost
4	Roll-around lockable tool boxes	\$400 each
2	Tooling storage units	\$2000 each
2	CNC tooling tool boxes	\$1000 each
1	Educational-use 4-axis CNC milling machine	\$15,000

Shirts: The Mechanical Engineering Technology program would like to offer long sleeve button-down shirts to newsletter recipients. Please see the attached form.

Comments or Questions - Contact Karen Horton at 207-581-2136 or Karen.Horton@umit.maine.edu if you have comments or questions regarding this newsletter or program information.

Mechanical Engineering Technology at the University of Maine

____ YES! I want to be a proud sponsor of the Mechanical Engineering Technology program!

For donations of \$50 or more made payable to "University of Maine," donors receive a blue long-sleeved button-down shirt embroidered with the University of Maine crest next to "Mechanical Engineering Technology."

Please send your contribution **with this form** to:

Rosemary Lamountain
School of Engineering Technology
University of Maine
5711 Boardman Hall Room 119
Orono, ME 04468

Name _____

Company _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

email: _____

Men's Shirt Size: Medium Large X-Large

(If you would prefer a women's shirt please contact Karen.horton@umit.maine.edu or at 581-2136 and we'll see what we can do!)

Please find enclosed sponsorship for:

1. Undesignated MET program support and development \$ _____

2. The following designated use:

Laboratory equipment and software	\$ _____
Capstone Design Project _____	\$ _____
Karl Webster Scholarship	\$ _____
Attracting students from underrepresented populations	\$ _____

3. Please contact me about the possibility of developing an endowed scholarship in honor of an individual. _____

4. Please contact me since I or my firm can make available the following equipment:
