MEEM Newsletter

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ALUMNI PROFILE:
MEEM Academy inducts a super trio

MEEM Department will be inducting three distinguished alumni to Academy on April 24. The purpose of the Academy is to honor outstanding graduates of MTU Department of MEEM. Selection into the Academy recognizes excellence and leadership in engineering and civic affairs. This induction honors some of the most successful of the more than thousand mechanical engineering and engineering mechanics alumni of Tech. Portraits and a brief biography of Academy members are prominently displayed in the MEEM Building to serve as inspirational role models for future mechanical engineering and engineering mechanics students.

Hussein M. Zbib earned a BS in Mechanical Engineering in 1981, an M.S. in Mechanical Engineering in 1983 and a Ph.D. in Mechanical Engineering-Engineering Mechanics in 1987 all from Michigan Tech. Hussein is currently Interim Director and Professor of the School of Mechanical and Materials Engineering at Washington State University. Pullman, WA. He was named a Fellow of ASME in 2001 for exceptional engineering achievement and contributions to the engineering profession. Other awards include the 1994 Research Excellence Award from the College of Engineering at WSU, the NSF Research Initiation Award, and a NATO Fellowship. He is very active professionally as Associate Editor of ASME Journal of Engineering Materials and Technology, member of the Advisory Board of the International Journal of Plasticity, and member of the Board of Review of Metallurgical and Materials Transaction. As of 2000, his publication record includes five edited books and over 100 technical articles. He and wife, Marica, reside in Pullman, WA.

Eric A. Nielsen earned his BS degree in Mechanical Engineering in 1980 at Michigan Tech and went on to earn his MBA from the University of Chicago in 1985. After graduating from Tech he started as a consulting engineer with Hazard Engineering in Morton Grove, IL until 1993. He then worked for several companies before joining Volvo Construction Equipment (CE) Parts in Sweden as Vice President - Business Control and Information Systems in 1994. From 1997-1998 he was Chief Financial Officer of WCSC Metals in Illinois. In 1995 he became Chief Financial Officer of Volvo CE Korea. In 2000 he assumed his current position of President and CEO of Volvo Excavators and Volvo CE Korea. Eric received several prestigious awards including the Presidential Award for Manufacturing Based Technology. He is an active volunteer for Habitat for Humanity, Korea, Eric has reestablished his connection to Michigan Tech through providing internships, supporting senior design and enterprise. Eric and his family live in Seoul, South Korea.

James L. Ream graduated from Michigan Tech University in 1953 with a BS in Mechanical Engineering and later earned an MBA from Xavier University. Jim started his career in 1957 at General Electric (GE) as a process control engineer. From 1958-1990 he was self-employed as a management and engineering consultant to companies in the aerospace industry. In 1990, he joined Jet Avion Corp, a subsidiary of HEICO, as Director of Research and Development. He was Chief Operating Officer of HEICO from 1995 to 1999. Jim became Executive Vice President of HEICO Aerospace in 1993 until he retired from full-time service in 2001. In 2001 HEICO sales were $171.3 million with 1.02 employees. In 2001, Jim and Ann established the James and Ann Ream Endowed Scholarship at MTU to recognize undergraduate students majoring in mechanical engineering. Jim has been active in community and charitable groups such as the Chamber of Commerce and the United Appeal Fund. He and Ann have three grown children and live in Plantation, Florida.

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MEEM Newsletter is published by Student Success Center to promote a sense of community for MEEM. It is a joint effort of faculty, staff and students of MEEM volunteering their time, effort and creativity.

Please send your comments and contributions to packcho@mtu.edu.

ANNOUNCEMENTS
April 15-16: Presidential Council of Alumnae Induction
Tanya Klein, '90 BSME
April 22: Senior Design Day
Poster session (MUB & Cuskie Design & Creativity Center)
Oral presentations (MEEM 111, 112, & 1021)
April 22: 6 p.m., Senior Recognition Banquet
7:30 p.m., Order of the Engineer Ceremony
Guest speaker: Dr. Dana Brehob, Ford
Rooza Center
April 21-24: Industry Advisory Committee meeting
April 24: 5 p.m., Induction Ceremony of MEEM Academy

FAB CORNER

FAB's input has helped the department and university make several good adjustments for the new first year students in the fall. You, FAB members, should be proud of your achievement. The steering committee has decided to stay on as advisors for the incoming freshmen in the fall and help guide the new

By Nick Link

members of FAB as they take over the operation.

We have plans for next year including a booth for F-day, a freshmen volleyball game, and running an event for Spring Fling.

A side note to all first year students: Finals are coming and that means lots of studying but don't forget to have fun, too.

MY FAVORITE CLASS:
"SENIOR DESIGN DAY"

Senior Design Day will be held on Thursday, April 22, 2004. The day's activities will include the display of design prototypes and posters for 39 mechanical engineering senior design projects. Project handouts and posters will be on display in the Memorial Union Building and in the Cuskie Design and Creativity Center on the second floor of the MEEM building.

All mechanical engineering students are required to complete a two-semester engineering design project during their senior year. Most of the projects have industrial clients, who sponsor the projects and have real expectations. The posters, prototypes and presentations represent the culmination of the 28-year-long senior design projects that started in the Fall of 2003, and the mid-point proposals of the 11 senior design projects that started in the Spring of 2004. Many of the sponsors will attend these presentations.

Oral presentations of the 11 design projects, and all other final designs, will be given at scheduled times during the day, starting at 8:30 a.m. and finishing at 5:00 p.m., in rooms 111, 112, and 1021 of the MEEM building.

Everyone is encouraged to attend the ME-EM Senior Design Day presentations and activities. See what the mechanical engineering seniors have accomplished in their senior project work!
FACULTY/STAFF PROFILE:
By Eric Losiewicz

Haut-Donahue

Although Biomedical Engineering students probably know her better because of her research in knee injury and repair, Dr. Tammy Haut-Donahue is an exciting member of the MEEM department. This is her third year at Michigan Tech and she currently teaches Bio Mechanics and works with four senior design teams.

"I really like the variety of the senior design program since every semester there is something new to work on," said Tammy referring to what she likes most about teaching here. She adds that "this is my first real job so everything is new and I’m always meeting new people.”

Tammy received her B.S. in Mechanical Engineering at Michigan State University and M.S. and Ph.D. in Bio-Medical Engineering at University of California-Davis. She then went to Penn State to do post-doctoral work in molecular biology in an orthopedics department specializing in diagnosis, treatment, and prevention of injuries and diseases of body's musculoskeletal system.

When her husband first mentioned the idea of moving back to Michigan, Tammy was hesitant, "I didn’t want to go back to Michigan. Michigan to me was flat, gray and boring." Of course Tammy had never been to the U.P. Also, a small town was a plus, "We really wanted to live in a small town after living in large cities like East Lansing and Davis California all our lives."

When asked what experiences she has enjoyed the most so far she replied, "I enjoy being able to know all my students by name, and getting to know them on a personal basis. It was kind of shocking at first coming from big schools like Michigan State, for example, where there are so many students and the faculty are really hard to find and then come here and run into my students at the grocery store, or at the park, or when we go out to dinner....The small town atmosphere has been very enjoyable."

In her spare time Tammy enjoys water skiing and down hill skiing. Since having two kids she hasn’t been able to take advantage of the downhill opportunities here at Tech, "Right now me and my husband do a lot of snowshoeing because we can just strap the kids on our back and go, but as soon as the kids are big enough we’ll be hitting the slopes again". Tammy and her husband also enjoy hiking and backpacking.

To learn more about Tammy and her research, check out her website at www.me.mtu.edu/tdonahue/

ENTERPRISE UPDATE:
By Jacob Losiewicz and Kyle Lyngstad

In this particular day and age, security concerns are prevalent in the minds of Americans. This tendency, brought to public awareness through the Homeland Security Act, has created a viable market for security-related technologies. This market is the focus of the Blue Marble Security Enterprise, a new and rapidly expanding enterprise here at Michigan Tech.

Blue Marble Security became an official enterprise just this Spring semester, though it had beginnings in the Fall. The program is an offshoot of the Wireless Communications Enterprise, and was founded by a grant from David House, a Tech alumni interested in preserving the prestige of the school and particularly that of the EE department.

The president, 4th year EE John Kopinski, said that “The major goal of our enterprise is to make money for the students...whether it’s bringing in research or development contracts.”

The most Mechnically-oriented project of Blue Marble is the ROV (remote operated vehicle) project. The aim is to design a remotely operated underwater vehicle for searching and information-gathering beneath the surface. They also have a UAV (unmanned aerial vehicle) project and disaster response project underway.

Blue Marble’s program is especially useful for Mechanical Engineers due to its wide variety of majors to which it caters. It is a very good experience and practice with interaction to other disciplines, especially Electrical Engineering, which often goes hand-in-hand with Mechanical Engineering in the workplace.

So, whether you’re seeking a challenging project where you’ll be working side-by-side with engineers from other disciplines, trying to verse yourself in all the EE jargon, or just looking for a fun time designing very innovative systems, check out the Blue Marble Security adventure.

For more information, you can contact the management list at blueeng@mtu.edu.

STUDENT SUCCESS CENTER:

Engineering Learning Center (2nd floor of MEEM) started serving popcon to the center users on every Wednesday afternoon as a mid-week relief from the routine.

The popcorn machine was donated by Charles D. Crebus, an MEEM alumnum of '83. Crebus owns the company, C. Crebus & Co., that makes the machine in Chicago.

FRIENDS OF MEEM: Industry Advisory Board

The Industrial Advisory Committee is a select group of corporate leaders (primarily Michigan Tech alumni) that provide insight and input to the department. They meet twice a year on the Michigan Tech campus. While on campus they hear an update on the students, faculty and staff on various research programs, operations and advancement and distance learning to name a few. Their primary role is to review the activities of the department continue to be in step with industry insuring that the department's students, both graduate and undergraduate, are prepared to perform well in their chosen field. The current members are:

PETER P. SAIROSTRO Senior Manager, Vehicle Certification DaimlerChrysler Corporation
JON F. SCHIEBERT Executive Director, UAS Eng General Motors Powertrain Group
ADIF SHAFI President, Shaf Inc.
FREDERIC C. SHERRIFF V.P. of Operations and Systems Ingeposition, Inc.
SANDRA SKINNER Chief Engineer Electrical Systems Ford Motor Company
MICHAEL SABBE Senior Project Engineer KineticsCorporation
RICK SMITH Director, Climate Control Engineering Denso International America, Inc.
MARSHA SULLIVAN V.P. and Global Business Manager Texas Instruments Incorporated
TIMOTHY H. THOMAS General Manager Part2iods LLC
CARMEL E. THORREZ President, C. Thomes Industries
GEOFFREY R. WELLER Asst. Plant Manager General Motors Corporation
JEFF ZANIESE Scientist, Dow Chemical Corp

How do you spell relief?

P-O-P-C-O-R-N

Feeling helples?

Come to ELC for mid-week relief!