**ALUMNUS PROFILE:**
Eric Nielsen is the man

Eric is also bringing his Manager of Learning and Development to discuss internship opportunities for Tech students. Last year, Eric sponsored summer internships for two MEEM students, who described their two-month stint at the Volvo plant and R&D facilities in Korea as "awesome" and "definitely the best experience ever." Eric believes that being confident is the most important asset for success in life. He works hard to earn the right to be confident.

You will see Eric walking around the MEEM building between 8:30 and 11:30 am on Tuesday, February 3.

**DID YOU KNOW...**

...that ME-EM student Tenasia Hatch was MTU's Homecoming Queen? 
...that ME-EM will be co-hosting the SAE Clean Snowmobile Challenge on March 15-20?

**FEATURES**

**The First Annual All-Nighter Snow Statue**
the MEEM faculty & staff and ME first year students are building snow statues

The construction starts at 4 pm, Wednesday, Feb. 4. Come out and have fun!

**ALUMNUS PROFILE:**
Eric Nielsen is the man

Eric Nielsen '80, CEO Volvo CE

Eric Nielsen served as President of the International Association of Machinists for five years from 1980-1985.

**FAB Corner**

FAB is a brand new organization for first year MEEM students to voice their concerns and opinions on classes, dorm life, or anything on campus that affects the first year students. It was formed last semester to provide feedback to the Student Success Center. We meet regularly for friendship, to identify issues, and to discuss suggestions for improvement and innovation.

FAB meetings are not about complaining and griping. We take action.

February 3, 2 pm (the location will be announced at a later time). At this meeting, we intend to voice our opinions and suggestions regarding the quality of the book used in class, Josh said that it was the most.

For those who are unfamiliar with the class, both Product Realization classes deal with applying mechanical synthesis, analysis, and manufacturing processes to the design of products. Josh took both classes last year under the instruction of Thomas Grimm.

Josh had a hard time picking a favorite class, but he decided that he liked Product Realization 1 and 2 the most.

For those who are unfamiliar with the class, both Product Realization classes deal with applying mechanical synthesis, analysis, and manufacturing processes to the design of products. Josh took both classes last year under the instruction of Thomas Grimm. Josh enjoyed Dr. Grimm's teaching and easy to follow. Josh said that he really enjoyed the design projects that were assigned in the courses, about 2-3 in each separate course. The project I enjoyed the most was designing an industrial floor jack that was required to lift 8 tons. I had never imagined all of the engineering that went into simply lifting something up off the ground. We designed a hydraulic lift that was sized for a fatigue limit and a bending limit.

Josh said that the class required quite a bit of work, but was very interesting for anyone who enjoys learning more about the way things work. Josh's final note was "I felt like I gained a lot more appreciation for the specific analysis involved in designing Mechanical Systems after taking both classes."
**FACULTY PROFILE:**

**Raka Bandyo**

It is not unusual for this member of our department to be working in the late hours, such as midnight or one in the morning. This very dedicated member of our department works a regular 70 to 80 hours a week.

Who is this man? Where did he come from? How did he arrive as the Chair of MEEM Department?

Dr. William Predebon (a.k.a. Wally) from his coaching days of little league is from the east coast, "Trenton, NJ, born and raised." He received his undergraduate education from the University of Notre dame, a masters and Ph.D from Iowa State University, and started a family of a wife and two children in Ames, Iowa. After laying down this foundation, what next for our fearless leader? Ballistics, "5 years of working with explosive metal systems, understanding, predicting, experiments, and modeling very high impact phenomena."

When finished blowing things up and ready to start building again he came to Michigan Tech.

**“Wally” Predebon**

"This place was different and unique. I did not expect to be here this long, last November marked 28 years." As for the more personal side of Wally, the MEEM department and its "advancement" is his personal side. His goal is a $4 million dollar campaign to "attract and retain the best faculty, staff, and students, have fellowships for graduate students, and endow the facilities so that our department is least dependent on the state's fluctuating budget."

After "advancement" and managing the department, Wally, a true mechanical engineer at heart, likes working with his hands, building and fixing things in his house... things in which he may see immediate results. Time permitting Dr. Predebon has really enjoyed teaching, skiing, and coaching baseball. However, most days he is here. He likes to work with the music playing and his office is filled with works of art mostly made by his wife. His message to us all, "This is a state of the art facility to earn degrees, with great faculty here to deliver the education that is active in research and excited about the material, and excellent staff. This is an exciting place to be."

**NEW AT STUDENT SUCCESS CENTER:**

**"Hands-on" Curriculum Flowchart**

When you visit the Engineering Learning Center this semester it will be hard not to notice the black wall of MEEM reference material we call the "Hands-on Curriculum Flowchart."

The curriculum flowchart has been reproduced with actual textbooks as a tool to help MEEM students make connection between their current and future classes. Students will be welcome to browse textbooks and eventually view class syllabi, example homework and exams. Over time all of the technical elective classes will also be represented.

The next time you see Jerry Dion and Paula Zaren, please tell them "job well done!".

**Danise Jarvey**

@ ADVISING CENTER

Welcome to 'spring' semester, or should we call it the winter semester. My name is Danise Jarvey, and I am one of your Academic Advisors residing on the second floor of the ME-EM. I am a native of the area having grown up in Copper City. I enjoy cross-country skiing and am fortunate to live with my family in the Calumet 'suburb' of Swedetown, home to a spectacular system of cross-country ski trails.

I began my college career as an agricultural engineering student at Michigan State before most of you were born. (This is where you are residing on the second floor of the one of your Academic Advisors)

My name is Danise Jarvey, and I am an of your Academic Advisors residing on the second floor of the ME-EM. I am a native of the area having grown up in Copper City. I enjoy cross-country skiing and am fortunate to live with my family in the Calumet ‘suburb’ of Swedetown, home to a spectacular system of cross-country ski trails.

I began my college career as an agricultural engineering student at Michigan State before most of you were born. (This is where you are residing on the second floor of the one of your Academic Advisors)

I completed my BSME, got married a week later and moved to California a week later to start my new job as a Quality Engineer with the Navy at General Dynamics. I transferred to Minneapolis to work at an FMC plant. While in the Twin Cities, I also worked for Unisys Corporation as a Supplier Quality Engineer.

My husband was offered a job in Hancock, so we decided to move back to the area a few months before our daughter Karen was born. Julie and Anne joined her over the next five years. Our family was complete. While enjoying my time raising our girls, I completed my MS degree at MTU in Operations Management. I joined the ME-EM department in the fall of 1999 to help advise students going through our transition to the art faculty system and have been enjoying my work with our students ever since.

I look forward to meeting you and helping you to do your very best at Michigan Tech.

**ENTERPRISE UPDATE:**

**Wireless Communication Enterprise**

WCE is a student-led virtual company and one of the largest enterprise teams on campus. The goal of WCE is to develop a virtual enterprise that makes a significant positive impact on the world of wireless and optical communication.

There are 11 different projects going on in WCE. There is a project sponsored by Rockwell Collins to design a 3-dimensional data collection machine to measure multi-path interference in an aircraft. Tyco Electronics sponsors a project developing optical communication device for the auto industry. Several projects are confidential such as developing commercial electronic products that will eventually compete in the world market. Besides these companies, WCE has also worked with General Electric Company, SBC Ameritech, IR Telemetrics and more.

So, what can ME students do in WCE? It sounds like most of projects are for EE students! I think we have 5 ME students right now in WCE. Dr. Stone, the advisor of WCE, informed, "We have room for many more in future semesters."

Many of our projects involve the integration of electrical and mechanical engineering and it is great experience for students to team up with people in different disciplines. Our project employing MEES include x-by-wire using photonics, creation of entertainment products including high tech toys, and medical products.

WCE participates in the Under - graduate Exposition, an annual event sponsored by MTU where students present their Senior Design projects along with Undergraduate Research and Enterprise Team projects. University faculty and corporate representatives critique their work for a wide range of cash prizes. www.doe.mtu.edu/expo2003/reportht.html

Although WCE is such a large enterprise with 65 student participants, it is not hard to find your niche. There are team leaders and team members to help if you put your heart to work. To the question on how team members feel about what they do in WCE, Jersey Erath responded that it requires time and effort, but he feels great about what he is doing. For more information on WCE, visit www.engineering.mtu.edu/wce

If you want your enterprise featured in the ME Newsletter, please email Hwa Kim at hhykim@mtu.edu

**Hwa Kim**

**New @ Student Success Center:**

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The next time you see Jerry Dion and Paula Zaren, please tell them "job well done!".

**Engineering Learning Center**

Monday – Friday, 10 – 4 & 7-9

Monday – Thursday, 10 – 4

**ELC offers the following services:**

For students:

1. Tutoring on gateway courses
2. Problem solving sessions
3. Faculty Office Hours
4. First-year student mentoring
5. Computer tutorials
6. Private group study rooms

For faculty:

1. Graders
2. Coaching for review sessions
3. Coaches for problem solving sessions

**Faculty Office Hours @ ELC**

A number of faculty have graciously offered to spend an hour of their office hours at the ELC so that they can help any student (not just the students in their classes) with their coursework. In addition, students are welcome to talk with them about research opportunities and career advising. Of course, students can drop by just for a friendly chat, too. It is great to have so many faculty participating in this program for student success.