



SOCIETY OF WOMEN ENGINEERS MINNESOTA SECTION



January 2003

Expanding Your Horizons

Volume 16, Issue 3

President's Message

Julie Long

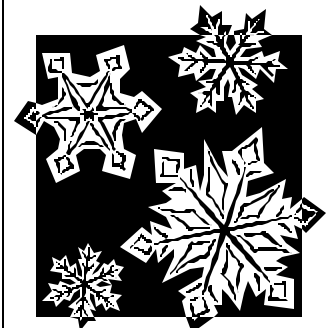
SWE MN has certainly been busy this past fall. Hopefully you have had the opportunity to participate in a meeting or an outreach event. The Executive Council (EC) has been busy working on organizational items to help our section grow stronger. These items include creation of a procedure manual and work on succession planning. (See the succession planning article for more detail on that subject) A procedure manual is being created for each officer and committee position. The manual will have tasks outlined that each position is responsible for along with a calendar that illustrates when the task has historically been completed in the past. It will help new and old alike in knowing what needs to be done when. If you have ever been afraid to volunteer to lead a committee because you did not know exactly what would be expected from you that will no longer be the case. This manual will spell out the expectations and become an invaluable resource for the section. If you would like to see portions of the manual feel free to contact me. I'd love to share the hard work the EC has put in with you.

I have to reveal to you how proud I am of our section, not only for the work we done this past fall, but also the wonderful people I'm able to meet through SWE-MN. Due to the high quality of our members, like you, the Minnesota section was able to submit four well-qualified candidates (Allison Pedersen, Jessica Raby, Alyse Stofer and Laura Thysell) for the New Faces in Engineering Award, a recognition program sponsored by National Engineers Week. The purpose of the award is to promote the accomplishments of young engineers by highlighting their engineering contributions and the resulting impact on the society. I'm extremely pleased to say that Alyse Stofer will be representing the Society of Women Engineers. She will be featured in a full-page ad in *USA Today* during National Engineers Week along with representatives of other engineering societies. I encourage you all to buy *USA Today* during the week of February 16-22 to see the ad, hang it up outside your cube and tell everyone you are a female engineer like Alyse, diverse and talented. Be proud that you have the power to transform and improve life as an engineer. Celebrate E-week and yourself!

Julie

Inside this issue:

<i>COR Report</i>	2
<i>New Members</i>	2
<i>February Meeting Notice</i>	3
<i>Scholarship</i>	4
<i>Holiday Party</i>	4
<i>November Tour</i>	4
<i>Spring Seminar</i>	4
<i>January Meeting</i>	5
<i>New Faces in</i>	6
<i>Career Guidance</i>	8
<i>Member News</i>	8
<i>Succession Planning</i>	8
<i>Calendar of Events</i>	10





COR Report

Allison Pedersen and Jessica Raby

News from the Council of Representatives:

- The FY'02 financial audit information is now available on the web. The bottom line is that our net change for the year is negative. The negative change is due mainly to lower gross income because we did not have a conference in FY'02 and income from donations and investments was down.
- The COR request for the BOD to allocate \$60,000 for the student transition team and completion of the bylaws changes has not been funded yet.
- Updated minutes from the COR meetings are available

on the SWE national website.

- The SWE online member service system is up and running! Member information can be updated, and you can now renew membership online. To access the system, you will need your user i.d. and password, which were mailed to members a couple of years ago. If you have forgotten your i.d. or password, you can request to have it emailed to you.

- The Region H Conference will take place February 7-9, 2003 in Ann Arbor, MI.

Please let either Allison Pedersen or Jessica Raby know if would like further details on any of the items above.

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Welcome to New Members

Welcome to our newest Minnesota Section members:

- Debra Burling
- Kristi Flury
- Jennifer Huffman
- Christina Nord
- Prayati Ockenga
- Paula Plant
- Christine Siebenshuh
- Susan Wilson

We look forward to meeting you at future SWE-MN events!

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February Meeting Announcement

Networking Night!!!

Mark your calendars for a SWE-MN networking night on Tuesday, February 11. Come meet other SWE members and catch up with friends at Vine Park Brewery Pub in St. Paul. It's guaranteed to be a lively and interesting night! We may even sneak a peak at the "brew your own beer" brewing facility.

Also, donations of gently used items will be accepted for Animal Ark, a local no-kill animal shelter.

Where: Vine Park Brewery Pub

242 West 7th Street, St. Paul

Located just down the street from Xcel Energy Center, near the intersection of Kellogg Blvd. And West 7th Street – see map

When: Tuesday, February 11 6:30-8:30 pm

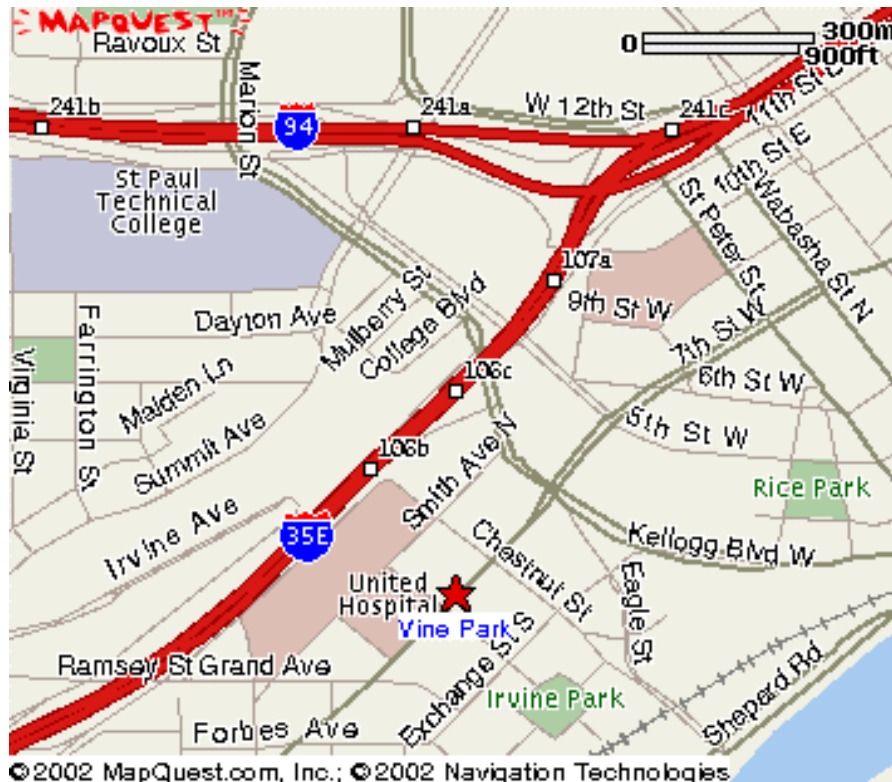
Cost: No charge!!

{SWE will buy appetizers, you pay for your own meal & drink}

RSVP: Caroline via e-mail or phone by Thursday Feb 6th

Tobeycar@aol.com or 651-552-8092.

Map:



See You There!

The SWE-MN newsletter is published five times per fiscal year – September, November, January, March, and May. Submit articles to the newsletter editor. SWE annual membership includes a subscription to this newsletter. To place an ad or sponsor a newsletter, contact the editor.



Scholarship Committee

Leanne Knutson and Naomi Brill

Our request for corporate scholarship sponsors is netting mixed results this year. More companies are responding, but many of those are saying they aren't able to participate this year. Caterpillar has again offered to sponsor a \$1,000 scholarship, and we are still hoping for more.

January through April represents the busy season for the Scholarship Committee and, as usual, we're looking for extra help. Please join us in judging scholarship applicants, preparing the mailing to all Minnesota high schools (make copies or collate and stuff the mailing while networking with other SWE members and students), and sending out Certificates of Merit to high school women who've demonstrated excellence in math and science. For further information, or to volunteer, contact Leanne Knutson, leanne.knutson@emersonprocess.com, or Naomi Brill, nbrill323@yahoo.com.

Holiday Potluck Party Recap

Caroline Tobey

The Holiday Potluck Party marked a cheerful start to the holiday season. Each guest brought a dish that is traditionally served at holiday gatherings, which included vegetarian Indian bread, pickled herring, chocolate cake, and many more. We had quite a feast! Additionally, each table represented major global holidays observed this time of year: Hanukah, Christmas, Kwanzaa, and Ramadan. Electronic greeting cards were created for overseas military personnel. It was warm gathering of members and their families. Happy holidays to you from the Programs Committee! See you in 2003.

November Tour Recap

Cheryl Bemstetter

On November 6th, 25 attended the MSP Airport Humphrey Terminal tour and networking event. The tour began with a guided tour of the tram system by Ed Condon III of Otis Elevator Company. Construction began in August 1999 and the tram was first available for use in April 2001. The empty tram weighs 27,500 lbs. and filled with passengers, reaches a top speed of 20.5 mph. The tram track is 1100 feet long. Next, we went through the skyway security checkpoint located on the second floor. Bethany Whitehead has been Tour Coordinator for the Metropolitan Airports Commission for the past 2 years. She brought us to the Operations Room. This control room is the hub for facilities management. Lighting and plumbing are the only facilities not controlled from this location. The airport uses both Siemens and Honeywell instrumentation systems.

Lastly, we visited Airside Operations. Airside Operations works with the traffic control tower and ground control to coordinate emergency response, snow removal, and wildlife management. They have a contractor that provides weather reports four times daily. Airside Operations has approximately 130 field personnel and approximately 10 electrical technicians. The crew performs visual inspections of the runways twice daily. The evening concluded with appetizers and networking at the airport TGI Fridays restaurant.

Save the Dates!

Spring Seminar

The Spring Seminar will be held either on 3/8/03 or 3/15/03. More information will be available in the next Newsletter and on the SWE-MN website.





**SOCIETY OF WOMEN ENGINEERS MINNESOTA SECTION
JANUARY 2003 CAREER DEVELOPMENT MEETING NOTICE**

Expanding Your DIVERSITY Horizons:

MEDTRONIC WORLD HEADQUARTERS TOUR AND DIVERSITY PRESENTATION

The evening will begin with a short tour of Medtronic World Headquarters by SWE-MN Treasurer Cathy Krier, followed by a diversity presentation by Leondias (Lee) Butcher, the Sr. Director of Workforce Diversity for Medtronic and dinner provided by The Ground Round. Medtronic operates in 130 countries worldwide and has an annual revenue of \$6.3 Billion. One of their products is being used somewhere in the world every eight seconds.

Lee Butcher is currently a Senior Director with wide-ranging industry experience in medical devices, telecommunications, consumer electronic products, automotive, and bottling industries. He is a respected, values-based leader of high integrity rounded in engineering and manufacturing processes. Lee is a customer-focused individual, with a track record of implementing dramatic improvements in quality, business growth and profitability. Lee began his career with General Motors, followed by positions of increased responsibility at Miller Brewing, Litton Microwave and Northern Telecommunications. For the last 13 years he's been at Medtronic, the leading medical technology company in the world. During this time he has held a number of senior positions, including Division General Manager. Lee is currently the Sr. Director of Workforce Diversity responsible for worldwide diversity strategy. Lee will be speaking on Medtronic's Diversity Strategy and Vision.

When: Thursday, 1/16/03 ⇒ **Tour:** 6:00 to 6:30 / **Presentation:** 6:30 to 7:00 / **Dinner:** 7:00 to 8:00

Where: Medtronic World Headquarters, 710 Medtronic Parkway, Minneapolis, MN 55432-5604

Cost: Tour, Presentation & Dinner: \$10 for SWE members or \$13 for non-members

Tour & Presentation ONLY: \$5 for SWE members or \$7 for non-members

Cancellations by 1/13/03 will receive a full refund. No refunds issued after 1/13/03.

RSVP: by Monday, 1/13/03 by returning the form below or emailing Cheri at cheryl.bernstetter@emersonprocess.com

Questions: Call or email Cheri at 952-828-3594 or cheryl.bernstetter@emersonprocess.com

Dinner Menu: Ground Round Party Platters (Caesar Salad – dressing on the side, Fresh Vegetable Platter, Triple Appetizer Platter, Combo Wrap Platter, Brownie Platter) and beverages.

Directions to Medtronic World Headquarters:

From the West: Take 694 E. Take the Central Ave. exit (number 38). Turn left (N) onto Central Ave. Stay in the left lane. Turn left onto Medtronic Parkway. Medtronic is the first building on the left. Parking instructions to follow.

From the East: Take 694 W. Take the Central Ave. exit (number 38). Turn right (N) onto Central Ave. Immediately merge into the left lane. Turn left onto Medtronic Parkway. Medtronic is the first building on the left. Parking instructions to follow.

~~Please fill out this form and return it by the RSVP date if you will be attending the January 16th Career Development Mtg, "Expanding Your DIVERSITY Horizons: MEDTRONIC WORLD HEADQUARTERS TOUR AND DIVERSITY PRESENTATION BY LEONDIAS BUTCHER."~~

Name: _____ Company: _____ Email: _____

_____ Tour, Presentation, and Dinner _____ Tour and Presentation Only

Send this form and check (made out to SWE-MN) by January 13th to: Rosemount Nuclear Instruments, Inc, Attn: Cheryl Bernstetter M/S: BM01, 12001 Technology Drive, Eden Prairie, MN 55344

SWE-MN's New Faces in Engineering

SWE MN was proud to submit four candidates for the New Faces in Engineering Award. Below are the application essays so you can learn more about them.



Allison Pedersen is responsible for the software project management of a project that is adding new key technologies to Goodrich Corporation enabling them to break into a new market within the aerospace industry. Her current project, whose content is confidential, involves a team of other Goodrich software engineers throughout the country that report to Allison. Besides the internal company staff, Allison maintains a global perspective by directing the work performed by an outsource company located in Germany. She excels in leading and managing teams, as evidenced by her leadership of team staff located across the USA and as far away as Europe.

In addition to her management skills, Allison has designed embedded software for an Air Data Computer, including writing and debugging software, documenting it, and integration testing. She has completed a case study of how Goodrich Air Data Computers calculate altitude rate, which included information on the amount of filtering vs. response time. Beyond her technical work, Allison is active in the Minnesota Section of the Society of Women Engineers serving as the Section Representative to the national Council.



After graduating from the University of Minnesota in Chemical Engineering in 1999, Jessica Raby joined The Pillsbury Company (now a part of General Mills, Inc). While at Pillsbury/General Mills, Jessica has worked in Research and Development on two businesses, Haagen-Dazs® ice cream and Pillsbury refrigerated baked goods. At Haagen-Dazs®, her main focus was on the development and commercialization of new products including several ice cream bars and the initial launch of Haagen-Dazs Gelato, a line of Italian inspired frozen desserts. For the past two years, Jessica has been working on Pillsbury baked goods. Most recently, Jessica led the process development and commercialization of new Pillsbury Grands!® and Golden Layers™ Flaky refrigerated biscuits. She works closely with an interdisciplinary team including manufacturing facilities across the country to scale up products and processes from lab and pilot scale to full production scale. In addition to working on product and process development, she also pro-

vides technical service support on existing refrigerated baked goods products. Managing a busy career with lots of travel, Jessica inspires other engineers by remaining active with the local Minnesota Section of the Society of Women Engineers and currently serves as the Section Representative.



Alyse Stofer works as a mechanical design engineer for Data Sciences International, a leader in telemetric and physiologic monitors, where she has two major achievements, both critical to the company's success. One of Alyse's achievements, successfully designing and testing a new silicone gel material critical to the function of many company products, demonstrated leadership of a cross-functional research, development, and manufacturing team. Her second achievement involves work on both the pressure sensor and catheter of a device that will be placed in the left ventricle of the heart. This product will assist physicians in monitoring congestive heart failure and applying appropriate drug therapies. She designed and tested the main product component and material, producing two patents pending: "Devices, Systems and Methods of Endocardial Pressure Management" and "Improved Barriers and Methods for Pressure Measurement Catheters."

continued on page 7





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Emerson Process Management, a world leader in the design and manufacture of precision measurement and control instrumentation for the process industry, has exciting career opportunities in the Minneapolis area for people who are interested in being part of a forward thinking team on the cutting edge of technology. We are committed to providing superior customer service and producing top quality products.

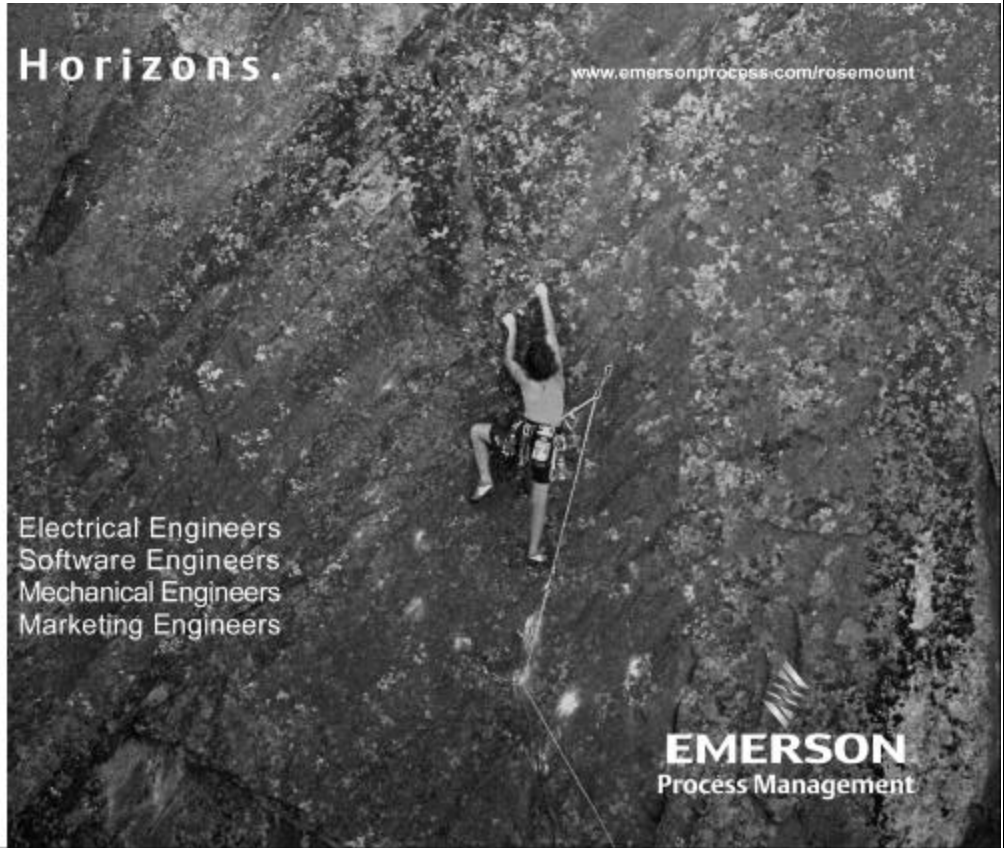
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SWE-MN's New Faces in Engineering continued from page 6

Alyse is scheduled to graduate in the Spring of 2003 with a Masters degree of Biological Science from the University of Minnesota. She serves the Minnesota Section of the Society of Women Engineers as Vice President.



Laura Thysell began her career at Eaton Hydraulics as a manufacturing engineer in April 2000. Laura was responsible for providing manufacturing support to several assembly and machining departments that produce motor sales of \$38 million annually. Laura led project teams to reduce assembly errors and to improve product cleanliness. Her team's assembly improvements resulted in \$30,000 cost savings.

In April 2002, Laura transferred to the Fluid Power Division to assume the new responsibilities as the sole application engineer / price analyst for the Marine and Military product line of Aeroquip hoses and fittings, a \$6 million product line. Her main duties involve identifying products and setting prices for government and commercial customers. Laura is pioneering efforts to manage both engineering and pricing roles.

Additionally, Laura is actively involved with the Minnesota section of the Society of Women Engineers. In 2001-2002 Laura chaired the Outreach Committee and organized several events including a very successful Girl Scout Badge workshop that hosted over 100 girls. SWE-MN recognized Laura's efforts with two awards in 2002: Most Active New Volunteer and Outreach. Laura currently serves as membership chair and remains active in Outreach activities.

Career Guidance

Sarah Schostag and Laura Goetzke

The past few months have been really busy for the Career Guidance committee.

In October, Allison Pedersen and Naomi Brill spoke at the Minnesota Association of Financial Aid Administrators event, Kids, Colleges and Careers. They spoke on the topic of "How Engineering Affects Your Daily Life" to approximately 150 8th grade students from St. Paul.

In November, the Career Guidance Committee hosted a follow-up workshop for girls who have participated in the STEPS program. The junior high aged girls had an opportunity to visit with old friends while racing their egg mobiles and making asphalt cookies and ice cream. The event was well received by the girls as well as the SWE-MN members who participated.

The Career Guidance Committee also met in November and has started creating engineering outreach kits. We're starting with activities that the section has done in the past – egg mobile, asphalt

cookies, ice cream, etc. – and will expand as we try new activities. Our intent right now is to have a worksheet with guidance on how to run the various activities so any section member (or teacher) may demonstrate an activity with kids. We have some materials for some of the activities but others will require some purchases to implement.

Plans for the future include participating in an ASME E-week event, submitting a proposal to host the Hoffman Program later this year, and hosting a Girl Scout workshop in April.

If you participate in any career guidance or outreach events (Future Cities for example), please let us know. If you are interested in participating in a Career Guidance activity, please contact us. We welcome your help and suggestions.

National Engineers Week

National Engineers Week 2003 will be celebrated February 16-22. For more information on activities and events, visit <http://www.eweek.org>.

SUCCESSION PLANNING

Leanne Knutson and Naomi Brill

SWE MN is developing a new program for succession planning within the section. The purpose of the program is to help develop a pool of future leaders to help guide our section. Succession planning will also help us focus on personal development so that we can learn competencies that will be beneficial to members both in and out of SWE. The hope is that succession planning will help increase our reputation as a place where individuals can learn transferable skills in a non-threatening environment. Plus it will help us avoid transition problems of finding officers and committee chairs in the future. We are looking to expand our pool of candidates as part of the succession planning effort. If you have ever been interested in helping SWE as either an officer or committee chair, please contact Julie Long at julie_long@urscorp.com or (612) 373-6431.

MEMBER NEWS



Congratulations

To Liz Lehrkamp (formerly known as Liz Vaccarello) on her November, 12th, 2002 marriage to Jeremy Lehrkamp !



Congratulations

To Roz Dolid and family on the birth of a beautiful baby boy, Justen Christopher Stock on September 23rd, 2002! He was 7lbs 11½oz and 21½" long.



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**SOCIETY OF WOMEN
ENGINEERS**



- Jan. 12 SWE EC Meeting
- Jan. 16 Career Development Meeting – See page 5 for details
- Feb. 7-9 Region H Conference in Ann Arbor, MI
- Feb. 11 February Meeting – See page 3 for details
- March. 8 or 15 Spring Seminar– See page 4 for details



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