President’s Letter

2013 is now upon us and it is already starting off strong. SWE-MN will be celebrating with a jammed pack schedule for volunteering and professional development. We kick off our Feb with an EC planning meeting and a MBTI (Meyers Briggs) discussion on how to adjust your style to be most effective with your peers. For some of you this is "old hat" and even though I have taken courses and reviewed my MBTI, I always seem to gain more wisdom with each course. I am excited to learn more about the EC and to hear from an expert and former SWE-MN president Karen Zais. I have been very fortunate to work with so many past leaders and learn from their trials and triumph.

The following weekend, we are heading to the University of MN for the SWE Region H Conference. I am looking forward to seeing many of you at the happy hour on Feb 8th for SWE-MN (see facebook for details). We are very proud of the U of MN collegiate section as they have reached maximum capacity for the conference attendees. We will get to hear some fabulous speakers, network with wonderful women and enjoy all these things close to home.

At this point, you are probably in awe of all that SWE does but wait - there's more. We will kick off National Engineers Week in style, with a day of science at the Science Museum in St. Paul hosted by the Outreach Committee. This is free with a paid admission so grab your family, friends and neighbors and head on over for a jammed pack day of Spark, Slime and Speed (Feb 17th). We are accepting volunteers as well for this kickoff adventure.

Then, we end National Engineers Week other engineering societies at The Works’ Tech Fest in Bloomington on Feb 23rd. Again, we are accepting volunteers so sign up quickly, or as my son would say “quick a lee”. We look forward to you joining on of these wonderful Feb fun days. We are finalizing some plans for March and April events so make sure to stay connected via the website (www.swe-mn.org), Facebook, twitter and LinkedIn to see all the wonderful activities we have coming up. We want to help you have "a lifetime of opportunity" with SWE.

~Holly Kimball - president@swe-mn.org

Thank you to our sponsors!

For more information on how to become a SWE-MN Sponsor, check out our Sponsorship Opportunities here.
Who’s Who in SWE-MN?

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<tr>
<td>President</td>
<td>Holly Kimball</td>
<td><a href="mailto:president@swe-mn.org">president@swe-mn.org</a></td>
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<tr>
<td>Vice President</td>
<td>Kalyani Mallela</td>
<td><a href="mailto:vp@swe-mn.org">vp@swe-mn.org</a></td>
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<td>Secretary</td>
<td>Sara Beck</td>
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<td>Treasurer</td>
<td>Allison Lunde</td>
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<td>Section Representatives</td>
<td>John Kasab</td>
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<td>Webmaster</td>
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<td>Professional Development Committee Co-Chairs</td>
<td>Erin Lamke  Claire Rydeen</td>
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<td>Outreach Committee Co-Chairs</td>
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<td>Membership Committee Co-Chairs</td>
<td>Nicole Danielson-Bartlett  Lynn Davenport</td>
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<td>Naomi Brill  Erica Girard</td>
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Region H Leaders

- Governor: Jennifer Morikawa
- Lt. Governor: Dayna Johnson
- Treasurer: Cathy Krier*
- Secretary: Katie Amelio*
- Senator: Diane Lafortune
- Senator: Julia Spankowski
- Alternate Senator: Christine Cabrera
- Collegiate Senator: Rachel Seidner
- Alternate Collegiate Senator: Alina Alam

Region H Assessment Committee Chair: Michelle Ngatino*
Region Awards Chair: Kalyani Mallela*
Region H CLCC East Coast Deputy Chair: Molly Morgan*
Region Outreach Coordinator: Kalyani Mallela*
Region H Programming Excellence Competition Chair: Kalyani Mallela*
Region H Transition Membership Program: Holly Kimball*

*Indicates individual is from SWE-MN

Society Leaders

- President: Alyse Stofer*
- President-Elect: Stacey DelVecchio
- Secretary: Elizabeth Bielman*
- Treasurer: Penny Wirsing
- Director, Emerging Initiatives: Lana Fountain Flakes
- Director, Education: Kelly Griswold Schable
- Director of Membership Initiatives: Jonna Gerken
- Director of Professional Development: Linette Dawson
- Collegiate Director: Kaitlyn Bunker
- Speaker of the Senate: Helen O. Patricia
- Director, Regions: Colleen Layman
- Executive Director & CEO: Betty A. Shanahan, CAE, F.SWE
- Special Director of International Initiatives, FY12: Janet Bandows Koster

*Indicates individual is from SWE-MN
VP Spotlight

Wish you all a very Happy New Year!!! As the year came to an end, I was reflecting on my experiences and it reminded me of the opportunities SWE provided to me. This year the Society Awards Chair, Region Level leadership roles and Section Vice President helped me focus on my strengths, work on my weaknesses and expanded my professional network. I have been able to incorporate my training and leadership experiences acquired through SWE at work with great confidence and recommend you do the same. Start thinking about the leadership positions within SWE (Society, Region and Section level) that interest you and let SWE help you with your professional and personal goals for 2013. Please contact me if you are interested in learning about the different leadership positions and other SWE opportunities.

~ Kalyani Mallela  
vp@swe-mn.org
The Minnesota Section of the Society of Women Engineers is pleased to announce our

Section and Corporate Partner Scholarships for Fall Semester 2013

We are now offering **fourteen tuition-based scholarships** for **women students in engineering and computer science** at schools in **Minnesota, North Dakota and South Dakota**.

**We have added an additional scholarship sponsor to the program!**

Barr Engineering Scholarship *New Sponsor*

Two $1,000 scholarships for students of **civil or environmental engineering**.

Barr Engineering Company is an employee owned consulting firm providing engineering and environmental services to industrial clients in power, mining, refining and manufacturing, and to attorneys, government agencies and natural-resource-management organizations. Barr’s 700 engineers, scientists and technical specialist help clients develop, manage, and restore natural resources across the Midwest, throughout the Americas, and around the world. For more information, visit [www.barr.com](http://www.barr.com).

Banner Engineering Scholarship

One $2,000 scholarship for a student of **mechanical or electrical engineering**.

Banner Engineering is the sensor market leader with the broadest line of products and solutions in the nation. See [www.baneng.com](http://www.baneng.com) for more information.

General Dynamics AIS Scholarships

Three $1,000 scholarships for students of **electrical or computer engineering**.

General Dynamics AIS is a leading provider of transformational mission solutions in command, control, communications, computers, intelligence, surveillance and reconnaissance. See [www.gd-ais.com](http://www.gd-ais.com)

GE Women’s Network Engineering Scholarship

One $2,000 scholarship for a student of **chemical, electrical or mechanical engineering**.

The GE Women’s Network supports the professional development of women working at GE by sharing the wisdom of successful women role models: [www.ge.com/company/culture/people/womensnetwork.html](http://www.ge.com/company/culture/people/womensnetwork.html) GE works on things that matter: the best people and technologies taking on the toughest challenges, to find solutions in energy, health and home, transportation and finance.

Hormel Foods Scholarship

Two $1,000 scholarships for students of **industrial, mechanical, electrical, civil, or manufacturing engineering, or industrial technology**.

Hormel Foods is a multinational manufacturer and marketer of high-quality, brand-name food and meat products for consumers throughout the world. For more information, visit [www.hormelfoods.com](http://www.hormelfoods.com)

LORAM Scholarship

One $1,000 scholarship for a student of **mechanical engineering**.

LORAM is one of the leading suppliers of track maintenance machinery and services in North America and the global market. They deliver advanced equipment, innovative solutions, and unrivaled customer service to maintain and improve railway infrastructure. See [www.loram.com](http://www.loram.com) for more information.

The Minnesota Section Scholarship

One $1,500 scholarship for a full time women student entering her junior or senior year of an accredited **engineering or computer science** program at schools in Minnesota, North Dakota, and South Dakota.

This scholarship is funded by an endowment of the Minnesota Section of SWE.
Scholarship News (continued)

Medtronic SWEnet Scholarship

Three $1,000 scholarships for students of biomedical, chemical, mechanical or electrical engineering.

SWEnet is a professional network of Society of Women Engineers members who work at Medtronic, the global leader in medical technology, working to change the face of chronic disease. These dedicated women have donated their time and talents to create this scholarship opportunity. For further information on Medtronic, see www.medtronic.com.

Special thanks to Hormel Foods and Barr Engineering for being first time sponsors scholarships.

Please help us to bring these scholarships to the attention of all women engineering students in Minnesota, North Dakota, or South Dakota by passing it along to any faculty, staff, counselors, and students who you know at these schools!

Copies of this announcement, details on our program, the application form with instructions, and details of the judging criteria can be obtained by going to www.swe-mn.org/scholarships.

If you have further questions about SWE or our scholarship program, please contact Naomi Brill or Erica Girard at scholarships@swe-mn.org.

Do you know a female engineering student at one of these schools?

UM Duluth  SDSU  SD School of Mines

MSU, Mankato  St. Thomas  NDSU

UND  St. Cloud State  Winona State  UM Twin Cities

* Call for Scholarship Judges *

Applications for our Fall 2013 Minnesota Section and Corporate Partner Scholarship Program are due on March 15th. Applicants are judged by a multi-disciplinary panel of engineers who are members of our section. Yes, that means you could be a scholarship judge! It’s fun, energizing, and really rewarding to read about the exceptional women engineering students who apply for our scholarships. Previous judges say they’re excited for the future of engineering after learning about the local pool of upcoming talent!

Judges must be members of the Minnesota Section, who have no affiliation with a sponsoring partner company. This project requires about 6 hours of time between March 21st and April 15th. If you’re able to help, please contact Naomi Brill at Naomi.Brill@swe.org or scholarships@swe-mn.org!
We would like to thank everyone who has helped us grow our section this fall! We currently have 195 professional members in our section. What a great group!

We hope you had a wonderful holiday season. Thank you to all our volunteers who took time out of crazy and snowy evenings to come pack food at Feed My Starving Children in Coon Rapids on Dec 11. We had a very productive packing session and averaged 28 food packets per person (feeding 112 people!).

We also held a SWE-MN Holiday Party in December. Thanks Michelle Ngatino for hosting at a lovely St Paul location!

We hope you are storing up your energy in January for an exciting February. As I’m sure you’ve noticed from reading your SWE-MN emails, the Region H meeting is in the Twin Cities Feb 8-10! We hope you can join for the conference and/or our Friday evening SWE-MN dinner to celebrate. Check your weekly emails for more info on Friday dinner as the time approaches.

If you would like to get involved with our committee or if you have any membership questions, please contact us at membership@swe-mn.org.

~Lynn Davenport and Nicole Danielson-Bartelt - membership@swe-mn.org
Professional Development Update

SWE-MN Members Wanted!

One of SWE-MN’s goals is to encourage a transition into professional SWE involvement upon graduation. Please join us as we take time to get to know the University of Minnesota SWE members and encourage them to continue their SWE leadership at the professional level.

What: SWE-MN/UMN SWE General Meeting
Where: TBA (on UMN campus)
When: Thursday, January 31st, 2013 from 6:00-7:30 PM
Who: All UMN SWE and SWE-MN members are invited!

Food will be provided! Meeting location will be announced the week of January 21st, as rooms can not be reserved until then. The event will be held on the East Bank of the University of Minnesota Campus from 6:00 to 7:30 PM. Maps with location and parking availability will be sent out with the meeting location.

Please RSVP to Claire Rydeen (rydee018@umn.edu) and Erin Syverson (syver098@umn.edu) if you are able to attend! Hope to see you there.

Region H Conference is right around the corner!!

The Region H Conference will be held February 8-10th at the University of MN. Registration is CLOSED at this time.

Time: Check-in for the conference will begin at 12:00 p.m. on Friday, February 8 and the conference events will be officially done by 11:00 a.m. on Sunday, February 10
Location: The Commons Hotel and the University of Minnesota - Twin Cities campus

Questions: If you have questions regarding the conference agenda, sessions, facilities, corporate sponsorship, or registration please visit our website for more information or contact us at sweregionh13@gmail.com. 

Reminder:
Due to the Region H Conference being held here in the Twin Cities, SWE-MN will not be hosting our annual Professional Development Spring Seminar.

CREATE YOUR WORLD Engineering Your Future with SWE!
Outreach Upcoming Events - Volunteers Needed!

*See flyers on next two pages for more details.*

Contact Volunteer Coordinator, Kristin Haag, at volunteer@swe-mn.org to sign up!

**SWE-MN’s Annual E-Week Outreach Event** will be held at the Science Museum of Minnesota in Discovery Hall on **Sunday, February 17, 2013**. Volunteers will be needed for prep and the day of the event.

You won’t want to miss out!

**TechFest at The Works Museum** will be held on **Saturday, February 23, 2013**. This is a full day of activities and hands-on experiments from many engineering and science groups around the Twin Cities.

Bring your family and join in on the fun!

During ‘Wow! That’s Engineering!’ students will learn about Engineering fundamentals. Hands-on experiments and demonstrations will be performed with the students. The day will consist of presentations and approximately four hands on experiments.

The event will be held on **April 27, 2013** at Normandale Community College from 10am-3:30pm.
Come and **VOLUNTEER** for this great opportunity to educate over 800 youth from the Twin Cities about engineering! Kids of all ages will learn about different areas of engineering through various experiments. This has been a great event in the past few years and we need your help to make this possible.

**Experiments** (subject to change)
- Squishy Circuits
- Slime
- Spool Racer
- Hoop Gliders
- Gumdrops

**Volunteer Time:**
- **Sunday February 17th, 2013**
- Event 11:30 AM – 4:30 PM
  - Shift 1: 11:30am -2:15pm
  - Shift 2: 2pm-4:30pm
- *** If you can volunteer all day it is greatly appreciated! ***

**Location:**
Science Museum of Minnesota
120 W. Kellogg Blvd.
St. Paul, MN 55102
(across the street from the Xcel Energy Center)

**RSVP:** To volunteer contact Kristin at: volunteer@swe-mn.org

**Questions:** E-mail Outreach Co-chairs outreach@swe-mn.org

**Thank you to our event sponsor:**

**GENERAL DYNAMICS Advanced Information Systems**
Volunteers needed for E-Week Event

SWE is teaming up with many other STEM focused groups to volunteer for Tech Fest 2013. This award winning event will help kids of all ages learn about engineering and science! SWE MN will have a room in the museum and will be facilitating a hands-on experiment throughout the day.

If you are able to volunteer on behalf of SWE-MN please contact Kristin at volunteer@swe-mn.org to sign up!

Volunteer Details:

When: Saturday, February 23, 2013

Shift 1: 9:00 AM – 1:00 PM
Shift 2: 1:00 PM – 5:00 PM

Where: The Works Discovery Museum

Address: 9740 Grand Avenue, Bloomington, MN 55420
SWE Award News

Hello from your Awards Chair, Tricia Walker!

I am proud to say that SWE-MN entered a strong candidate for the Young Engineer of the Year Award for MFESTS. This is great! Thank you to all that submitted and reviewed the applications. Good luck to our candidate! Stay tuned for the results.

SWE-MN “Next In Line” for Awards

We are entering a **VERY** busy time of year for SWE Awards, so reviewers are much appreciated!

The following is the slate for the National Awards for SWE and all of them are due at the end of March.

**SWE Achievement Award**
- Minimum of eleven years of increasingly important engineering experience
- Has made an outstanding contribution over a significant period of time in a field of engineering.

**SWE Upward Mobility Award**
- Minimum of eleven years of increasingly important engineering experience.
- Has achieved the level of general manager or equivalent upper management position and created a nurturing environment for other women in the workplace.

**SWE Resnik Challenger Medal**
- Minimum of 10 years exceptional engineering accomplishment in aeronautics, astronautics, electronics, structures, space medicine, or any other applicable space-related field.
- Has contributed to innovative technology verified by flight experience.

**SWE Rodney D. Chipp Memorial Award**
- A man or company that has: increased the hiring or promotion of women engineers or women engineering students enrolled in a college or university - and/or encouraged, sponsored and/or developed professional training/development programs for women engineers - and/or created an environment that supports women engineers’ full participation and acceptance in the engineering field.

**SWE Distinguished Engineering Educator Award**
- The ideal candidate will have at least one earned engineering or engineering-related degree, and be a full time or emeritus faculty member in a school of engineering or engineering technology, and have the equivalent of at least ten years full time teaching experience titled associate professor or greater.

**SWE Distinguished New Engineer Awards (DNE)**
- The ideal candidate will be a woman who has demonstrated outstanding technical performance, as well as leadership in professional organizations (SWE) and the community, in the first 10 years of her career.

**SWE Fellow Grade Member**
- The ideal candidate will be a woman who has achieved professional excellence while also making substantive contributions towards advancing the objectives and goals of the Society. Must be a member for at least twenty years or a senior member for at least ten years.

**SWE Distinguished Service Awards (DSA)**
- The ideal candidate will be a woman: 1) whose contributions have positively affected SWE on the local or regional level, or on a Society committee, 2) who has demonstrated dedication and enthusiasm for the Society. The ideal candidate will have 20 years of continuous SWE service.

**SWE Entrepreneur Award**
- The ideal candidate will be a woman who has demonstrated a conviction to dreams and a willingness to make them happen, and a woman who is skilled in technical, business planning, administrative, and financial techniques, and excels in business leadership. The ideal candidate will have had her own business a minimum of five years.

**SWE Work Life Balance Award**
- The ideal candidate will be: 1) an individual who has demonstrated leadership and initiative in establishing a program such as flexible scheduling and work arrangements, child care resources, family leave, eldercare, customized benefits packages or other forward looking benefits, 2) an individual who has demonstrated an understanding that work and life integration or balance is of concern to all employees, not just women, or only those employees with children, 3) an individual who has been instrumental in the implementation of the program/benefit and ensuring that programs/benefits are available to all employees and supported by management at all levels.

**SWE Emerging Leader Awards**
- The ideal candidate will be a woman who has been actively engaged in an engineering or technology profession and who has demonstrated outstanding technical excellence resulting in significant accomplishments. The ideal candidate will have ten (10) to fifteen (15) years of cumulative engineering experience.

**SWE Outstanding SWE Counselor**
- The ideal candidate will be a SWE collegiate leader who has made an outstanding contribution to a SWE collegiate section as Counselor and has served as a link for the collegiate section to other areas of SWE (local professional section or MAL organization, regional, Society), and has three (3) or more academic years of cumulative experience in the role of SWE Counselor.

Contact Tricia Walker, at **awards@swe-mn.org** ASAP to apply or for more details and if you want to be a reviewer.
New from you SWE-MN Section Reps

If you’ve been receiving SWE-MN communications, you’ve probably noticed that there are many opportunities to get involved with the local section, but did you know that there are also opportunities to get involved at the regional level as well? For those that aren’t aware, SWE-MN is part of Region H, and similar to SWE-MN, Region H has it’s own set of committees that need support from SWE members within the region. If you are looking to expand your SWE involvement outside of SWE-MN, or are interested in understanding SWE at the Regional level, then involvement in a SWE Region H committee may be an opportunity of you!

There are many different Region H Committees – just to name a few: Outreach, Assessment, Celebrate SWE! Planning, and others. Visit the Region H website for a full list of committees: http://www.swe.org/Regionh/Leaders.htm

If you have any questions or would like more information about Region H Committees, feel free to contact the SWE-MN Section Representatives Laura Kooistra (llkopp@gmail.com) or John Kasab (john.kasab@swe.org).

SAVE THE DATE!

October 24-26, 2013

More than 6,000 women from around the world will be in Baltimore this October from the 24-26 for WE13 to make connections and make history. They’ll be coming to network, start or advance their career and experience highly rated professional development offerings. Plan now to be among your peers—save the date to ensure you are part of this inspiring conference. As a woman in engineering and technology, it's the best way for you to add to your own personal history of success.

The WE13 Call for Participation site is now open. Submit today!

Fund Development Continues to Seek Corporate Funding

If you are interested more in finding about our existing or new fund development initiatives please feel free to visit our sponsorship page at: http://swe-mn.org/sponsorlevels.html.

In addition if you have fundraising ideas and would like to volunteer or donate for any activities, please contact Jesse or Cassie at fd@swe-mn.org

~Cassie & Jesse
Fund Development Co-Chairs
When I was in 8th grade, I visited the Air Force Academy in Colorado with my family, and decided on the spot that I wanted to fly fighter jets. When I was told that I didn’t meet the height or vision requirements, I decided I’d become an engineer, and the Air Force can just suffer without me.

I graduated from the South Dakota School of Mines and Technology (the premier engineering school of the Midwest) with a degree in Chemical Engineering in 1995. I worked for a couple years at an ethanol plant in Wisconsin before hiring on with 3M, where I’m celebrating my 15-yr anniversary this month! During that time, I’ve worked at 4 different sites in 2 different divisions, working on great projects with great people.

My current role began Feb 2012 as a Senior Manufacturing Technology Engineer in the Electrical Markets Division working on High Capacity Conductor power lines. 3M’s revolutionary ceramic fiber is twice as strong as steel, and it’s a thrilling product to support. I travel for work every month, to oversee final production and improve throughput, as we’re sold out through 2015!

My greatest joy in life is my 7-yr old son Asher, who delights my every day. We love to travel, and have recently been to Alaska, Prague and central Europe, Mexico, the Bahamas, and have a trip planned to take a train ride across Russia this summer. Our goal is to visit every one of the ~400 National Park units, and to camp in each of the MN State Parks. I also play flute in two bands, and am training for my first half-marathon this fall.

I’ve enjoyed my role at the SWE-MN Outreach Co-Chair, and am looking forward to all of our upcoming events!
## January 2013

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- Rochester Networking Lunch
- South/West Networking Lunch
- SWE-MN/UMN General Meeting

## February 2013

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- SWE-MN EC Meeting
- SWE-MN dinner/Region H Conf
- Region H Conference
- Rochester Networking Lunch
- South/West Networking Lunch
- TechFest
Looking for Member News:

Recently got a new job or promotion? New marriage, child, grandchild? If so, we’d love to hear about it!

Send in your exciting Member News to newsletter@swe-mn.org to be included in the next newsletter.

National Engineers Week is February 17-23, 2013

CELEBRATE AWESOME

Find out more about National Engineers Week at www.eweek.org!

Tips for talking about engineering to students:

One way to engage adults and students alike is to make our message and activities relevant. Here are two simple strategies:

1. Change What You Say

   When someone asks you what is an engineer, do you tell them: engineers solve problems using math and science? If yes, consider expanding your definition to highlight what engineers do and why it is important:

   Engineers are changing the world all the time. They dream up creative, practical solutions and work with teams of smart, inspiring people to invent, design, and create things that matter.

2. Choose Explicit Engineering Activities

   If you are planning on doing hands-on activities, choose activities that address a societal need, solve a safety issue, or lessen an environment impact. By adding this element you can reinforce the message that what engineers and technician do makes the world a safer, more productive place.

For more tips and strategies, visit:

www.changingtheconversation.org or www.engineeryourlife.org