



# Society of Women Engineers

ASPIRE • ADVANCE • ACHIEVE

## Society of Women Engineers Minnesota Section

Shaping Technical Minds Into Meaningful Careers

**Volume 19, Issue 5**

**2006 Special Edition**

### SWE-MN FY06 Executive Council

President: Allison Pedersen  
president@swe-mn.org

Vice President: Elizabeth Bierman  
vp@swe-mn.org

Secretary: Jessica Luger  
secretary@swe-mn.org

Treasurer & Fund Development: Anne Kraft  
treasurer@swe-mn.org, fund@swe-mn.org

COR: Jayshree Desai & Holli Pheil  
cor@swe-mn.org

Awards & Recognition: Alyse Stofer  
awards@swe-mn.org

Career Guidance: Krista Johnson & Cassandra Piippo  
cg@swe-mn.org

Newsletter Editor: Meghan Flynn  
newsletter@swe-mn.org

Membership: Charlene Knealing & Erin Penne  
membership@swe-mn.org

Professional Development:  
Heather Johnson & Tricia Walker  
pd@swe-mn.org

Spring Professional Development Seminar:  
Gretchen Landini & Angela Neidermire  
pdseminar@swe-mn.org

Public Relations: Cheryl Maboudou-Tchao  
pr@swe-mn.org

Scholarship: Leanne Knutson & Julie Long  
scholarships@swe-mn.org

Student Section Counselors:  
Naomi Brill (U of St Thomas)  
Caroline Koerner (St Cloud State)  
Sharon Kurtt (U of MN)  
counselors@swe-mn.org

Communications Chair & Website Coordinator:  
Carol Reardon  
webmaster@swe-mn.org

### Inside this Issue

Pg 2: Vice President's Report

Pg 3: MFESTS Award: Alyse Stofer

Pg 4: Girl Scout Patch Day (GSPD) Recap

Pg 5: GSPD (cont.)

Pg 6: "What Makes a Bicycle?" Recap

Pg 7: "What Makes a Bicycle?" Recap (cont.)

Pg 8: Fuel Cell Car Experiment Recap

Pg 9: Connecting Educators to Engineering Recap

Pg 10: Connecting Educators to Engineering  
Recap (cont.)

Pg 11: Sparks, Slime, and Speed Recap

Pg 12: CHEMFEST!! Recap

Pg 13: CHEMFEST!! Recap (cont.)

## Vice President's Report Elizabeth Bierman

Welcome to a special edition of the SWE-MN newsletter! The Society of Women Engineers had its busiest month in February! We had a successful Engineers-week with five activities as well as our annual Girl Scout Patch Day and we want to thank all the

volunteers for our great success! Since we had so many wonderful events, we put a summary of all the events into this newsletter! A total of 150 adults and over 700 kids were touched during E-week. Not to mention over 100 Girl Scouts during our annual patch day!

National Engineer's week was February 19-25, 2006! In fact this year, SWE was honored to have been selected the organizational sponsor for Engineers Week 2006, along with corporate sponsor, Northrop Grumman. The theme for this year's E-week was "Connecting Educators to Engineering", and SWE-MN was busy promoting all the opportunities engineers provides to both students and adults!

The following SWE-MN events took place in February...

*The World of Engineering - Girls Scout Patch Day, February 11<sup>th</sup>*

Our annual Girl Scout Patch Day was held February 11th at Guidant Corporation in Arden Hills.

*What Makes a Bicycle? E-week Kick-off Event at Southdale Center, February 18<sup>th</sup>*

Career Guidance and Roz Dolid created a program with a mechanical bicycle-activity book.

*Fuel Cell Car Experiment at Fridley High School, February 21<sup>st</sup>*

SWE-MN and General Dynamics performed our Fuel Cell Kit Experiment at a Fridley High School.

*Connecting Educators to Engineering, February 22<sup>nd</sup> – Osceola, WI and Lakeville, MN*

SWE-MN went into two different schools in Lakeville, MN and Osceola, WI to speak with teachers and students about engineering, the opportunities available and conduct experiments.

*Sparks, Slime, and Speed – Experiments Day at the Science Museum of Minnesota, February 23<sup>rd</sup>*

Career Guidance and General Dynamics planned an event with the National SWE supplied outreach kits as well as the local SWE-MN kits.

*CHEMFEST!! ITAS 2nd Annual Day at 'The Works', February 25<sup>th</sup>*

The event allowed students to learn about chemistry, chemical engineering and sciences!!

Also, SWE-MN is proud to announce that **Alyse Stofer** received the Minnesota Federation of Engineering, Science, and Technology Societies (MFESTS) Young Engineer of the Year Award! This award honors young engineers who are outstanding in one or more areas such as engineering, science, or technology; and have exhibited significant contributions to society through efforts in other areas such as civic, education, patents, papers, etc. SWE-MN is a member of this organization that brings together a wide variety of engineering organizations in Minnesota.

None of these events would be possible without the hard work and dedication of our career guidance chairs, **Cassie Piippo** and **Krista Johnson**, along with the Career Guidance committee and all the volunteers throughout the month. SWE-MN really went above and beyond this year with all our outreach activities.

Please read on to hear how each of these events went and all the wonderful opportunities we provided to the students and community!

Elizabeth

## Congratulations Alyse Stofer! MFESTS Young Engineer of the Year Award Recipient

The SWE-MN Section is thrilled to announce that during Engineers-week 2006, Alyse Stofer received the Minnesota Federation of Engineering, Science, and Technology Societies (MFESTS) Young Engineer of the Year Award! This award honors young engineers who are outstanding in one or more areas such as engineering, science, or technology; and have exhibited significant contributions to society through efforts in other areas such as civic, education, patents, papers, etc.

Alyse graduated from the University of Iowa in 1997 with a B.S. in Biomedical Engineering. She started her career as a mechanical design engineer at Transoma Medical, a leader in implantable telemetric and physiological monitors. Alyse has worked on a variety of critical biomedical products for both human-use and medical research markets, including the LVP-1000 and a new, proprietary monitoring device. The LVP-1000 is an implantable device that monitors and relays left ventricular pressure and heart output from patient to physician via the internet. This cutting edge product, currently in clinical trials, will assist physicians in monitoring congestive heart failure.

Alyse performed the design and verification activities for several portions of the device, as well as the biostability and biocompatibility testing. In conjunction with this, Alyse received her master's degree in Biomaterials from the University of Minnesota in 2003.



Now a senior mechanical design engineer, Alyse is the mechanical team lead on a new, proprietary implantable monitoring device. She has designed and improved upon the design of numerous components and material for this product. Alyse led preliminary product safety and functionality studies, and wrote and executed project plans for design assurance and verification testing. Additionally, she directs the work of other mechanical engineers and technicians on this project. Not only has Alyse contributed to Transoma Medical through technical and leadership roles, she has contributed to the company's intellectual property with her four patents pending.

Alyse has been active at all levels of SWE, beginning with her collegiate membership in the University of Iowa Section. Nationally, Alyse is currently serving as the Collegiate Upgrade Coordinator for the Membership Committee. She was SWE's *New Face of Engineering* for E-week 2003, the first year of this recognition program. At the region level, Alyse serves as the FY06 Region H Lieutenant Governor, and has served as Region H Secretary. At the local level, Alyse has served the Minnesota Section as President, Vice President, COR, Membership Chair and Awards Chair. As President, Alyse and the Minnesota Section received the SWE 2004 *Membership Retention Award* for a Large Section. In 2005, she was honored with the Minnesota Section's *Key Contributor Award*.

In addition to her SWE activities, Alyse is involved in her community. She has served nine years as a judge for Minnesota's Southwest Regional Science Fair, and has mentored engineering students through Women in Science and Engineering (WISE) programs. She has been an active volunteer with the University of Iowa Alumni organization. She also participates in the Welcome Ministry at her church and has volunteered at the American Cancer Society's *Making Strides Against Breast Cancer Walk*.

Alyse enjoys spending time with her husband, their one year old son and two cats.

## “The World of Engineering!” - Girl Scout Patch Day

Cassandra Piippo

February 11, 2006 was a great day for Girl Scouts! The Society of Women Engineers – Minnesota held their third annual Girl Scout Patch Day at Guidant Corporation in Arden Hills. This year’s theme, “The World of Engineering” filled the day with culture about six different countries, tied to six different experiments! Six experiments with six countries was a great way to spend a Saturday learning about a variety of global engineering disciplines.



The SWE instructors teaching how to make “Silly Putty Slime” in the Canada room.

Our experiments taught the students some basics about project engineering, electrical engineering, chemical engineering, mechanical engineering, environmental engineering, and civil engineering.



Girl Scouts receiving instruction while making Asphalt Cookies in France!

One hundred and twenty two Girl Scouts attended this year’s event, making it our largest Girl Scout Patch Day so far! During this event, they completed one of five steps to earn their Science Badge as well as earned their SWE patch.

## “The World of Engineering!” - Girl Scout Patch Day (Continued from Page 4)



A Girl Scout team deciding how to build their Egg mobile in Mexico.



The Girl Scouts are deep in thought during the Gears Experiment in India!

The Society of Women Engineers-MN would like to thank Guidant Corporation for their generous total event sponsorship, including location, all event supplies, t-shirts and a give-a-way! We would also like to give our sincerest gratitude to Eurest Dining for donating snacks and Barb Reindl for her welcoming address.



## Thank you to the Sponsors of E-Week

**3M  
Boston Scientific  
Eurest Dining  
Flint Hills Resources  
General Mills**

**Goodrich Corporation  
Guidant Corporation  
Malt-O-Meal  
MTS  
Penn Cycle**

**We would like to give a special thanks to General Dynamics - Advanced Information Systems for their partnership.**

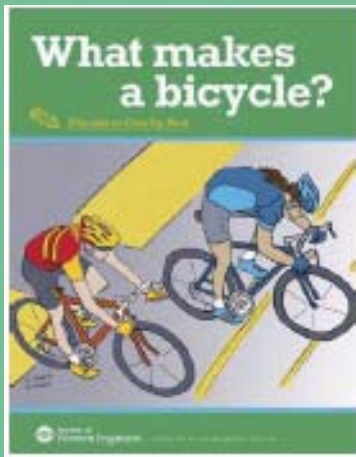


The SWE-MN newsletter is published five times per fiscal year - September, November, January, March and May. Submit articles to the newsletter editor. The SWE annual membership includes a subscription to this newsletter. To place an ad or sponsor a newsletter, please contact the editor at [newsletter@swe-mn.org](mailto:newsletter@swe-mn.org).

## SWE Activity Book / E-week Kick-Off Event at Southdale Center

by Roz Dolid

The Society of Women Engineers – Minnesota (SWE-MN) Engineers-week (E-week) kick-off event at Southdale on February 18<sup>th</sup> was a success despite the bitter cold. In addition to the “What Makes a Bicycle?” activity book activity, SWE provided three experiment tables – make your own silly putty, learn about ground water, and build a circuit. It was exciting for SWE-MN members to interact with approximately 150 children and their parents at the experiment tables. Kids were thrilled to learn more about how fun science and math can be and to leave with a SWE-MN goodie bag filled with granola bars, pens, E-week stickers and bookmarks, and information on different types of engineering. Our main event was Roz Dolid, SWE-MN member and designer of the “What makes a bicycle?” activity book, leading the children through a session where they colored different parts of bicycle to learn how they worked together. To help SWE-MN generate enthusiasm about bicycles, Penn Cycle joined us at the mall to provide several bike displays and some prizes.



The “What Makes a Bicycle?” activity book was developed by the SWE-MN Career Guidance Committee with development funded by SWE Nationals and SWE-MN, and printing funded by Guidant Corporation and MTS. By itself it’s just a coloring book – but the activity Roz developed involves teaching the kids the names of bike parts by coloring and naming each one while explaining their basic functions. Roz also discusses basic mechanical concepts such as forces and motions, levers, gears, and simple machines of the wheel-and-axle type. Although this activity is more suited to a classroom environment, the point of the public location of the kick-off event was to make people aware of this book and other career guidance experiments that SWE-MN has to offer. We made about ten of contacts with schools, scout troops, and other organizations during the day, which the SWE-MN Career Guidance committee will follow up on in the near future.

The kids who participated in the sessions enjoyed coloring the pictures and learned a lot about bikes. Many of the parents who attended with their kids had very positive comments about it afterwards. One parent emailed this to the president of SWE-MN:

“On Saturday I visited Southdale Mall with 3 of my children. We were approached by your members to join in the activities that the SWE was offering. I personally spoke with 3 or 4 of your members while my kids were participating. I can’t say enough on the way your members handled themselves. What an intelligent, friendly, upbeat group! My 13 year old son commented, “they all seem so happy”. They also got his mind thinking. After leaving he asked me a number of questions about what they had talked about and what they did in their jobs.”





Between coloring sessions, we had ½ hour demonstrations about bikes. The first demo was done by MTS employee, Paul Carroll and his daughter Julia. They talked about what kind of gear is needed to be a bike commuter all year. Julia did a great job and attendees were impressed. Here's what Paul wrote about the event:

“Thanks for letting Julia and I take part in the SWE bicycling day, we had fun! I'm always looking for opportunities for Julia to learn about engineering in a fun way. Julia enjoyed taking part in the coloring book activities and has even asked me a couple of follow up questions about different bike parts! ... But most of all, thank you (to SWE-MN and Roz) for all the hard work! The book is a great resource to get kids enthused about bicycling and learning about some mechanical systems they are exposed to in daily life.”



Paul Pederson, another MTS employee, attended with his daughter and her friend— both girls did the activity book and learned a lot. He had this to say:

“The girls (my daughter and her friend) were quite wide-eyed upon arriving, and diligently colored in the various parts of the bike in the coloring books they received, using colored pencils. At times they were more concerned about which color to use than the actual function of the part, but that didn't lessen their enthusiasm for the event. ... They also got a kick out of some of the other displays—building an electric circuit to light a bulb or turn on a fan, and especially custom-mixing their very own Silly Putty from glue and borax. ... The following Monday my daughter was quite excited to show off the coloring book to her 4<sup>th</sup>-grade teacher.”

Roz and the SWE-MN Career Guidance Committee are thrilled that we were able turn Roz's idea into an extraordinary educational, fun book for kids. The committee would like to thank MTS and Guidant for providing funding to cover the cost of printing the books, buying colored pencils to give to the kids, and some really great prizes to draw more attention to our event. The activity book presentation will give SWE-MN many opportunities to teach mechanical concepts to kids in the near future and we are excited to share this book with more children. If you are interested in finding out more about the book or how to get the demonstration into your child's school, please e-mail the SWE-MN Career Guidance Committee at [cg@swe-mn.org](mailto:cg@swe-mn.org).

## Cars Run on Water!

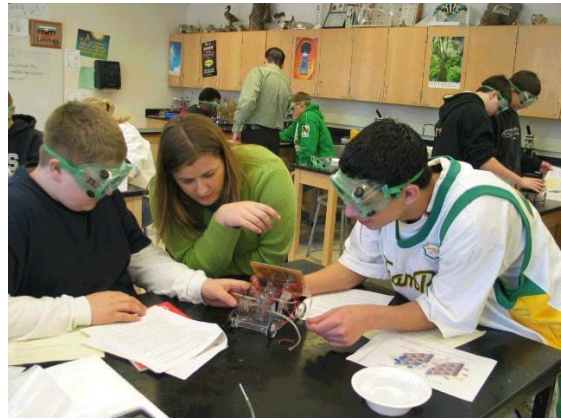
Krista Johnson

On Tuesday, February 21<sup>st</sup>, at Fridley High School, the Society of Women Engineers - Minnesota in partnership with General Dynamics - Advanced Information Systems, was invited into two classrooms. One classroom was an Engineering CAD Design class and the other a ninth grade Physics class. Our mission was to inform and teach the students about fuel cell technology using the SWE-MN Fuel Cell Car Experiment. The experiment covers a combination of solar technology, fuel cell technology, chemical reactions, and basic battery principles.



Two Students charge the solar panels and separate the water into hydrogen and oxygen.

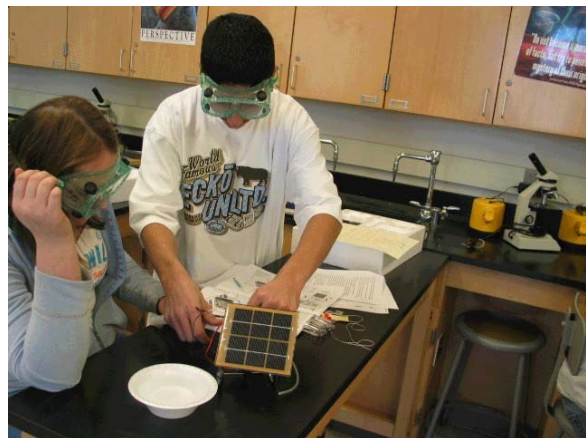
The idea of the fuel cell was new to many of the students, but the idea that a car could run with only water as its fuel was shocking to many. This event was not just a demonstration, it was a hands on experiment. SWE-MN has fifteen fuel cell car experiments, so the students were split into groups of two. The experiments were set up so they could perform and understand the science concepts related to the experiment and use their science principles and problem solving skills.



Krista Johnson, SWE-MN Career Guidance Co-Chair, and two students are trouble shooting the fuel cell car set up.

At the end of each session, we received many positive comments and the students really enjoyed the experiment. Fridley High School is working to put together an engineering program for their students in grades 6<sup>th</sup> through 12<sup>th</sup>. This is a great program in which students start to apply the math and science principles they are learning to real life. We wish them luck and if any company is interested in supporting or helping their program you can contact Krista Johnson at [cg@swe-mn.org](mailto:cg@swe-mn.org),

The Society of Women Engineers-MN would like to thank General Dynamics - Advanced Information Systems for their generous grant and the calculators, which were given to the students. Also, thanks to Fridley High School and the two teachers that invited us into their classrooms for the day, and the event volunteers from SWE-MN and General Dynamics - Advanced Information Systems.



Two students are connecting the electrical connection to the fuel cell and solar panel.

## Connecting Educators to Engineering Event Recap

Elizabeth Bierman

The *Connecting Educators to Engineering* event was held on February 22, 2006.

This is the legacy program introduced by the Society of Women Engineers for National Engineers Week. It has four programmatic elements:

- Volunteer training for Engineers
- A dynamic information exchange Forum for Educators and Engineers
- *Connection Day* (Wednesday, February 22, 2006) which focuses on outreach activities to middle school educators.
- Resources for classroom presentations and activities

To maximize the program's impact, *Connecting Educators to Engineering* concentrates on the middle school years – the formative period researchers have determined to be pivotal to the development of future math, science and technology majors. Most outreach efforts made previously by SWE focus directly on students. The focus for *Connecting Educators to Engineering* is the educational infrastructure itself, leveraging new relationships with teachers, guidance counselors and school administrators in order to influence the future academic paths of school students.

SWE-MN visited two schools on February 22, 2006. In the morning, Holli Pheil, Angela Neidermire, and Elizabeth Bierman visited Osceola Middle School in Osceola, Wisconsin. At this school, we conducted 3 sessions to the 8<sup>th</sup> grade, 7<sup>th</sup> grade, and 6<sup>th</sup> grade teachers. We had a presentation about what National Engineers Week is, how SWE played a role in this event, and what the *Connecting Educators to Engineering* program was all about. We also discussed what resources SWE-MN could provide to them. To show the experiments we have available, the ground water experiment was set up and demonstrated to the teachers. The question and answer session was most valuable, where we were able to answer questions as basic as what does an engineer do, to when can you come back into my classroom. Overall, it was a learning experience for both the volunteers and educators. Twenty five teachers and administrators were touched by this activity.

In the afternoon, SWE-MN visited Kenwood Trail Middle School in Lakeville, Minnesota. This visit was also a one of a kind event for SWE-MN. We did an experiment for the entire 6<sup>th</sup> grade class. Elizabeth Bierman, Allison Pedersen, Erin Penne, Holli Pheil, Angela Neidermire, Anita Hall, Julie Long, Nikki Nienow, Cheri Maboudou-Tchao, and Naomi Brill all volunteered their time to help with this event. Two 1-hour sessions were given to the 6<sup>th</sup> grade class. Each session had around 175 students and 7 teachers. A 10 minute presentation was given to the students about what engineering is and the cool stuff engineers can do. Then the Egg mobile experiment was conducted. The students really got involved and thoroughly enjoyed it. After the experiment, we had a question and answer period for the students in which lots of great questions came up. Our favorite was a boy who asked, "Are there any men that are engineers?"

The comments we received afterwards from the teachers were,

"I feel that yesterday was great. The presentation was well worth having again! Fun for kids!"

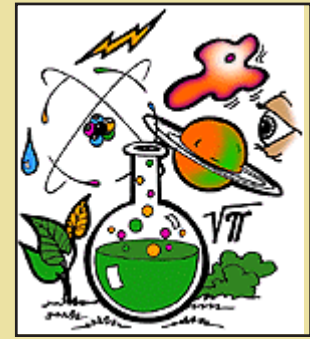
"I thought it was awesome! The kids really enjoyed it....Maybe one thing for next year is we could make a whole day out of it...it is great team bonding/building and creative thinking. They could perhaps do an activity in the morning for each team, then another one in the afternoon. that way the kids don't have too long of a time in there at once....I really enjoyed it also!!"

## Connecting Educators to Engineering Event Recap (Continued from Page 9)

"I thought yesterday was a great way for students to take in the reality of a profession from job requirements, pay, teaming, relations with other professions, etc. The list is long. The activity was really fun for the students and I answered a lot of great questions afterwards."

"Valuable time spent! Fun! Thanks to the engineers for being so organized and flexible!"

Through these events, we made many contacts with educators. An exciting outcome of these events is that SWE-MN has been asked to meet with the Osceola, WI Director of Curriculum and Instruction in early April to discuss how SWE's experiments and activities could fit into their curriculum. Thanks to everyone who volunteered and made SWE-MN's *Connecting Educators to Engineering* events successful!



# Civil Engineers

***Do more with a master's degree***

***Today's civil engineers need the latest in technology and tools to do their jobs better.***

*The M.S. degree in Infrastructure Systems Engineering can help. You will learn ways to improve your organization and boost your potential.*

*Attend classes one day a week. Earn your degree in only four semesters!*

Petra DeWall, ISE '02  
Engineer  
Mn/DOT

Erin Schacht, ISE '04  
Engineer  
City of Maplewood

## **Upcoming Information Sessions**

**cdtl**  
Center for the Development  
of Technological Leadership

**Call us. 612-624-5747**

EMAIL: [degrees@cdtl.umn.edu](mailto:degrees@cdtl.umn.edu)

WEB: [www.cdtl.umn.edu](http://www.cdtl.umn.edu)

**UNIVERSITY OF MINNESOTA**  
**INSTITUTE OF TECHNOLOGY**

The University of Minnesota is an equal opportunity educator and employer.

## Sparks, Slime, and Speed

Krista Johnson

On Thursday, February 23<sup>rd</sup>, the Society of Women Engineers - Minnesota in partnership with General Dynamics - Advanced Information Systems and The Science Museum of Minnesota coordinated Spark, Slime, Speed. This Engineers Week event was held at The Science Museum of Minnesota and open to the public.

This event was designed to spark the interest of students in 3<sup>rd</sup> through 7<sup>th</sup> grades to the many areas and careers of engineering. In the process, exposing the outreach programs SWE-MN has to offer to the public and education institutions. Through SWE's new experiment kit program, SWE-MN was able to use the new kits for the Spark, Slime, Speed event. The experiments covered the disciplines of Electrical, Mechanical, Civil and Chemical Engineering. The experiments at our event were: Invisible Forces (EE), Steady Hands (EE), Slime (CE), Newton's Rocket Car (ME), and SWE-MN Ground Water Display (CV).



Maryanne Gay, GD-AIS, helping two girls with the Invisible forces experiment.

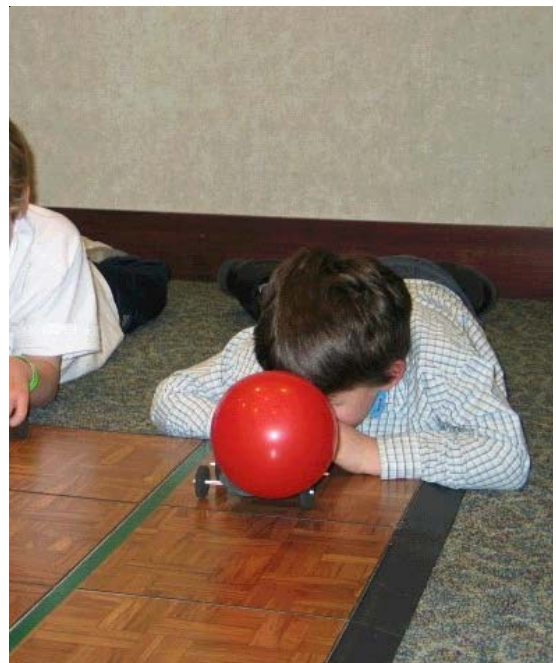
Not only did the children get to build and perform the experiments with real life engineers, the experiments were free for them to take home.

The event was filled with fun and science, which is the best combination to spark children's interest in engineering. The event was a great success and many parents thanked volunteers for this wonderful event. Many parents of home schooled children attended and were appreciative of an event like this. Volunteers also received many positive comments from educators.



Boy building a Rocket Car.

SWE-MN hopes to have this event every year and make Spark, Slime, Speed an annual event. Spark, Slime, Speed, has also opened the Career Guidance Committee to more opportunities for outreach events.



Newton's Rocket Car Track.

The Society of Women Engineers-MN would like to thank General Dynamics- Advanced Information Systems for the generous grant for the event and The Science Museum of Minnesota for donating the location and beverages. Thanks to the event volunteers from SWE-MN and General Dynamics - Advanced Information Systems. Special thanks to Shari Hartshorn for her help with event coordination.

## “TECH-FEST 06!” ITAS Second Annual, Day at The Works, Chemfest

Cassandra Piippo

The final event for E-week was a great success! Saturday, February 25, 2006, hundreds of people gathered at The Works Museum to learn about chemistry and have lots of fun doing it! The Society of Women Engineers – Minnesota worked in collaboration with the ITAS (University of Minnesota Institute of Technology Alumni Society) K-12 Outreach Committee and The Works Museum to bring this hands on celebration of chemistry to the public.



SWE and ITAS set up display and information booths near the entrance to the museum. Our members brought the Ground Water Display Kit to teach the students about the ground aquifer and how pollution can spread over large distances and depths.



Goldy Visiting the SWE Booth and Ground Water Display Experiment.

In the experiment area of The Works, the students learned about liquid chemistries, powder chemistries, and even made homemade ice cream! The Works’ interactive exhibit gallery was also open – where kids strummed the laser strings of a light harp, and distorted their images with a face warp machine.



Cinda Lohmann, SWE member, helping the students make homemade ice cream!

**“TECH-FEST 06!” ITAS Second Annual, Day at The Works, Chemfest (Continued from Page 12)**

Chemists from the University of Minnesota brought their experiments, which was the highlight of the day! Elephant’s toothpaste, disappearing ink, dry ice, glo-sticks, explosions, and crazy experiments wowed the audiences all day long!



Two University of Minnesota volunteers showing the students some fun chemistry!

This event was free and open to the public thanks to our great sponsors, Flint Hills Resource and Hutchinson Technology! In addition, the first 100 kids received free chemistry goggles, thanks to Malt-O-Meal Company! This year’s event was a huge success with non stop action and attendance of over 400 people!



Goldy and a student are learning science within The Works interactive exhibit gallery!

Big Thanks again to Flint Hills Resource and Malt-O-Meal Company as the official SWE sponsors of this event!!

For more information on The Works, visit [www.theworks.org](http://www.theworks.org). For more information on ITAS K-12 Outreach, visit [www.it.umn.edu/alumni/itas/k\\_12.html](http://www.it.umn.edu/alumni/itas/k_12.html).

# Take the Lead

Get a M.S. in the Management of Technology



Pam Greve, MOT '94  
Vice President and CIO  
Trane Company

Whether it's your company or your career, staying competitive is important. Take the lead by going beyond the typical MBA degree. The master of science in the Management of Technology (MOT) combines business know-how with technology savvy, strategically positioning our graduates. It's designed especially for working engineers and scientists.

**MOT—the new generation of management thinking**

Upcoming Info Sessions—call for details

Learn more today!  
call 612-624-5747

EMAIL: [mot@cdtl.umn.edu](mailto:mot@cdtl.umn.edu) WEB: [www.cdtl.umn.edu](http://www.cdtl.umn.edu)



UNIVERSITY OF MINNESOTA  
INSTITUTE OF TECHNOLOGY

The University of Minnesota is an equal opportunity educator and employer.

The newsletter is now being distributed to our members in electronic format.

If you would like to receive a paper copy of this newsletter, please send an email to the newsletter editor at: [newsletter@swe-mn.org](mailto:newsletter@swe-mn.org)

Every SWE-MN member is entitled to one **free pass** to give to a non-member to attend one meeting this year at no cost. We ask that you please do not redeem the free pass at the annual Spring Professional Development Seminar. We hope to see you and your guest at an upcoming event!

SWE Member's Name: \_\_\_\_\_

Friend's Name: \_\_\_\_\_

Meeting Date: \_\_\_\_\_

Offer good through 6/30/2006

April 18	April PD Meeting at Guidant Corporation
May 20	Networking Event: St. Paul Saints Baseball Game and Tailgating
May 23	EC Meeting at Guidant Corporation

Visit our website at [www.swe-mn.org](http://www.swe-mn.org)



SOCIETY OF WOMEN ENGINEERS  
PO BOX 582813  
MINNEAPOLIS, MN 55458-2813

CHANGE SERVICE REQUESTED