



# The Gear

Sept 2005

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Article deadline for "The Gear" is the fifteenth of the preceding month. Trial subscriptions are available to persons interested in membership. Send articles to: Andrea Cole Fyhrlund, Editor, 126 W. Chestnut St., Port Washington, WI, [afyhrlund@ameritech.net](mailto:afyhrlund@ameritech.net)

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*Serving the 162 Members of the Wisconsin Section, and Its Supporters*

## President's Corner – Susan Thomas Schlett, Section President

Dear SWE Members and Supporters,

One question I get asked repeatedly is, "do you have to be an engineer to join SWE?" The answer is an absolute "no"! If you look closely at the content of the meetings/web seminars/conferences etc. that are offered by SWE, the topics are of interest to many people. I encourage you to learn more about what SWE has to offer. One way to do this...come join us on **Thursday, September 29<sup>th</sup>, 2005** to celebrate our **SWE Membership Kickoff Meeting** in Milwaukee at Restaurant Buca di Beppo.

Do you like to work with kids, encouraging them in math/science/engineering? Check out some of the activities our Career Guidance volunteers participate in. They just finished a really neat *Survivor Camp* with the Girl Scouts (see article in this issue), are in the planning stages of creating a 6<sup>th</sup> grade essay contest and are gearing up for Engineers Week 2006 where SWE will be the lead society, and the theme will be "*Connecting Educators to Engineering*"!

In terms of professional development, if you have not participated in the Professional Development Web Seminars that SWE has offered in the past, your next opportunities to do so are on September 13<sup>th</sup> and November 15<sup>th</sup> of this year. The respective topics will be "Critical Communication Skills for Women in Technology" and "Transitioning from Engineer to Manager". These seminars are free for SWE members and you are able to view and interact during the seminar from your own computer! Check out the details at the [swe.org](http://swe.org) website and register today.

Are you looking to get more involved in SWE but not sure where to start? Send us an e-mail at [swe-wi@swe.org](mailto:swe-wi@swe.org) with your ideas, questions, and feedback. Let us help you, *Aspire, Advance, and Achieve!*

I hope to see you September 29<sup>th</sup>!

-S.T.S.



Support for production of this newsletter provided to the Wisconsin Section by Rockwell Automation ([www.ra.rockwell.com](http://www.ra.rockwell.com)), Mercury Marine ([www.mercurymarine.com](http://www.mercurymarine.com)), Westbrook Engineering ([www.westbrookeng.com](http://www.westbrookeng.com)), and GE Healthcare ([www.gehealthcare.com/worldwide.html](http://www.gehealthcare.com/worldwide.html)).



# SWE Wisconsin - Meeting Notice

**What: SWE-WI Section Membership Kick-Off Meeting**

Come join us for fabulous food and lively discussion!  
See what SWE has to offer you!

**Where:** Buca di Beppo  
1233 North Van Buren Street  
Milwaukee, WI 53202  
(414) 224-8672



**Website:** <http://www.bucadibeppo.com/>

**Date:** Thursday, September 29<sup>th</sup>, 2005



**Time:** 6:30PM (order by 7:00pm)

**Cost:** Entrees range from \$9 to \$30 but are served family style

**RSVP:** By Friday, September 23<sup>rd</sup>, 2005 to Elizabeth Mathew at  
[Elizabeth.mathew@med.ge.com](mailto:Elizabeth.mathew@med.ge.com)

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## **Directions/Parking\*:**

### **From North of Milwaukee:**

Take I-43 South to I-94 East. Take I-94 East into I-794 East Exit; Jackson/Van Buren. Get into the far left lane. Take Van Buren off of the expressway. Head North on Van Buren. About 10.5 blocks north, Buca di Beppo is at the corner of Van Buren and Juneau.

### **From the West (Madison or Waukesha):**

Take I-94 East into I-794 east exit; Jackson/Van Buren. Get into the far left lane. Take Van Buren off of the expressway. Head North on Van Buren. About 10.5 blocks north, Buca di Beppo is at the corner of Van Buren and Juneau.

### **From the South (Airport of Chicago):**

Take I-94 North, then the I-794 East exit. Take I-94 East into the I-794 East exit; Jackson/Van Buren. Get into the far left lane. Take Van Buren off of the expressway. Head North on Van Buren. About 10.5 blocks north, Buca di Beppo is at the corner of Van Buren and Juneau.

\*Parking is available on the north and south sides of the building.

## Upcoming Meetings/Activities



Irma Tyler-Wood

### **Expanding the Leadership Paradigm: Leading & Managing Change**

*Presented by Irma Tyler Wood & Joanna Murray of Thoughtbridge*

*Sponsored by Honeywell International Inc. & Guidant Corporation*

September 27, 2005 8:00 am – 5:00 pm

Guidant Corporation

Building L, Fernwood Ave. and Guidant Dr. South

Minneapolis, MN

Members \$365/Non-members \$465

Organizations are facing change at an unprecedented rate. Through this workshop you will learn to recognize the phases of change and transition; explore why change engenders conflict; and learn tools that will enhance your capacity to bring diverse people and perspectives together to achieve a common goal while maintaining optimal levels of productivity and creativity. Expand your leadership paradigm with Irma Tyler Wood and Joanna Murray from ThoughtBridge as they provide SWE members with practical, well-researched information to help you understand the emotional and behavioral responses to change and provide you with the adaptive skills required to anticipate and lead change effectively.



Joanna Murray

Register today at: <http://www.swe.org/leadershipreg>

| <b>Syllabus</b> |                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------|
| 8:00 am         | Registration & Continental Breakfast                                                                                               |
| 8:30 am         | Welcome & Introductions<br>~ Define your Goals & Desired Outcomes for the day                                                      |
| 9:00 am         | Your Negotiation Successes and Challenges<br>~ Seven Element Model and Ladder of Inference Review                                  |
| 9:30 am         | How Your Organization Currently Manages Change<br>~ A Four Quadrant Analysis                                                       |
| 10:30 am        | Break                                                                                                                              |
| 10:45 am        | Managing the Paradox of Change<br>~ Individual Transition Model<br>~ Three Stage Model for Leading Change<br>~ Practice Case Study |
| 12:15 pm        | Lunch – Reflection and Discussion                                                                                                  |
| 1:15 pm         | How to Build Consensus When You're In the Gap<br>~ The One Text tool                                                               |
| 1:30 pm         | Application Session                                                                                                                |
| 2:30 pm         | Break                                                                                                                              |
| 2:45 pm         | A Systematic Approach to Influence                                                                                                 |
| 3:45 pm         | Creating A Procedural Agreement                                                                                                    |
| 4:45 pm         | Feedback and Evaluation                                                                                                            |
| 5:00 pm         | Adjourn                                                                                                                            |

## Web Seminars



### **Critical Communication Skills for Women in Technology**

*Presented by Dr. Audrey Nelson*

*Sponsored by Medtronic, Inc.*

September 13, 2005

2:00 pm – 3:00 pm Central Standard Time

Members Free/Non-members \$49

Spend an hour with Dr. Audrey Nelson and learn the critical skills necessary to communicate effectively. Targeted to entry level professionals, you will become more aware of gender specific verbal and non-verbal communication, listening techniques, and the “evil twins” email and voice mail. Dr. Nelson is an internationally recognized consultant and seminar leader specializing in male-female communication, interpersonal skills, cultural diversity and conflict management.



**Register today at: <http://www.swe.org/criticalcomreg>**

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### **Transitioning from Engineer to Manager**

*Presented by Rachel Hutter from Walt Disney World Co.*

*Sponsored by a SWE Program Development Grant*

November 15, 2005

2:00 pm – 3:00 pm Central Standard Time

Free for Members & Non-members!

Whether you've been in a technical position for two or twenty years there may come a day when you suddenly find yourself on the management track. Will you be ready? Disney's Rachel Hutter is here to help. Ms. Hutter will discuss the major differences between the two roles, the necessary skills to transition to manager, how to establish credibility and ways to measure your success. Rachel Hutter is Director, Attractions Engineering Services and Quality Assurance for Walt Disney World Company.



**Registration information coming soon!**

# For Your Information...



## Gears...

By Betty Leonhard

Since our SWE newsletter is called **The Gear** and I've just gotten back from gear school, I thought it would be fitting to share some of what I learned at school. The ME's out there probably learned all this in college, but the rest of the engineers out there can learn something new today.

First of all, there is probably a lifetime of things to learn about gears, so it's tough to decide what to put in this small article. There are countless references available if you want to dig into the subject deeper. And if you really need to learn more, I recommend going to the gear school, like I did. It is offered by Gleason. ([www.gleason.com](http://www.gleason.com))

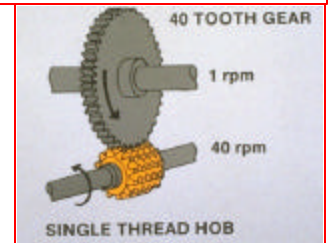
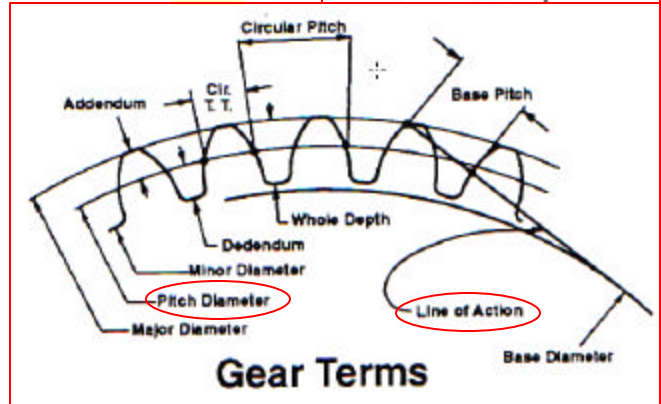
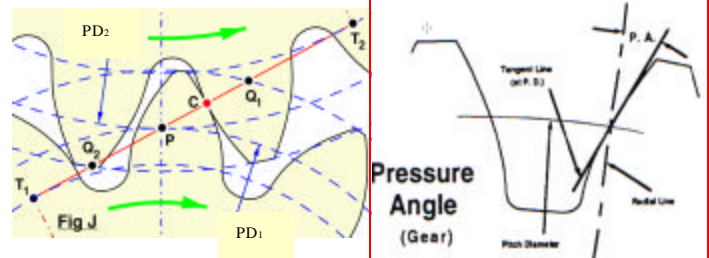
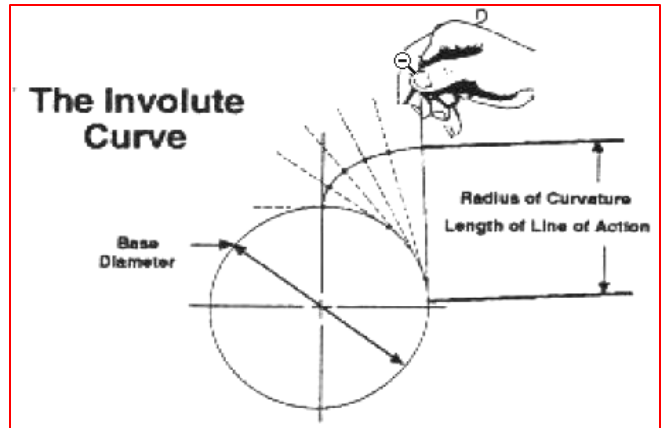
One of the basic fundamentals of gears is the tooth design and most of them have an *involute* shape; which in laymen's terms is the shape you get if you stuck a pen at the end of a yo-yo's string, held the center, and traced out the shape made during its unraveling. (math geeks see: <http://mathworld.wolfram.com/Involute.html>) Put some of these lines together, and the resulting shape is the working surface of a gear tooth. There are several reasons this shape has become the common style; mostly it just makes for the easiest tooling, manufacture, and inspection. The involute portion of a gear is the only area where contact with a mating gear occurs.

There are tons of variables that define a gear's form. One important feature is *Pitch Diameter*, the single point where the gear is pushing on it's mating gear; at all other points along the involute curve, the gear is actually just sliding. The line tangent to this point gives the Pressure Angle and the higher the PA the stronger the tooth, while smaller PA's provide a quieter working gear.

For a slow motion schematic of two gears in rotation go to: [www.mech.uwa.edu.au/DANotes](http://www.mech.uwa.edu.au/DANotes). It traces the points of contacts along the *line of action*.

Many gears are machined by a *hob* (which often looks like a *cob* of corn, that's how I remember it). Both the gear and the hob spin during machining, so the hob has basically the same shape as the gear since it interacts like a mating gear fits. The series of diagrams below show how an involute shape creates another involute shape behind it.

So everyone can now check off "learn something new today" from their to-do lists. The websites referenced within this article or a simple web search will lead you to oodles of information, equations, pictures, and schematics.



## Member News

### Welcome to the following new SWE-WI members since July 2005:

- Nicole L. Arnold (Student Upgrade from H061 – University of Michigan SWE Section)
- Anne Jensen (Student Upgrade from H060 – Marquette University SWE Section)
- Melissa L. Kurtz (Transfer from H002 – Detroit SWE Section)
- Jayme R. Radomski (Transfer from D011 – Central Florida SWE Section)
- Leanne M. Bihn (Student Upgrade from Iowa State & transfer from H011 Quad Cities/Muscatine SWE Section)
- Karyn C. Schroeder



**Congratulations to Laura Matter with her new job at Cooper Power Systems in South Milwaukee!**

Thank You to the Volunteers at the Girl Scout Survivor Camp.\* The volunteers included:

|                |               |                 |
|----------------|---------------|-----------------|
| Julie McMullin | Abby Peele    | Kay Starkey     |
| Lia Holland    | Kris Ackerman | Leah Halkin     |
| Ann Buschhaus  | Laura Matter  | Dawn Rossmiller |

\* See article on page 10



## Recognition Programs

### *New Faces of Engineering 2006*

A Recognition Program Sponsored by National Engineers Week

SWE is seeking qualified candidates for recognition in the *New Faces of Engineering* program! If you or someone you know is qualified, please send completed nomination forms to Susan Schlett at [swe-wi@swe.org](mailto:swe-wi@swe.org) by October 3rd! Members of the SWE-WI Executive Council (who have not been nominated for this recognition) will select one nominee from those received, for submittal to National SWE.

Additional information about the *New Faces of Engineering* program and the nomination form is found on the SWE website [www.swe.org](http://www.swe.org) under *Events*, then *EWeek*. Due to a short turn around time and an expected overwhelming response, please adhere strictly to the submission criteria.

If you have any questions, please feel free to contact Susan at [swe-wi@swe.org](mailto:swe-wi@swe.org) or SWE Awards & Recognition Committee Chair, Annmarie Uskert, at [awards-chair@swe.org](mailto:awards-chair@swe.org), (321) 861-6239.

The *New Faces of Engineering* strives to promote the accomplishments of young engineers by highlighting their engineering contributions and the resulting impact on society. Young engineers two to five years out of school are the focus of this recognition program. Engineers Week sponsoring societies nominate young working engineers from among their membership.

You can view the 2005 *New Faces of Engineering* honorees, including SWE's nominee Stephanie Horne Swindle, by visiting <http://www.eweek.org/site/Engineers/newfaces2005/index.shtml>. In addition to Stephanie you can also view SWE's four runners-up (including our own SWE-WI member Abby Peele!) by visiting <http://www.eweek.org/site/Engineers/newfaces2005/SWE.shtml>.

## Meet Our FY06 Officers

Elizabeth Mathew  
Professional Development Chair

My name is Elizabeth Mathew and I am the Professional Development Chair for the SWE – WI section. I have been a SWE member from 2003. I came to USA from India in 1998 to do my MS in Electrical & Computer Engineering at Marquette University. In 2000 I joined GE Healthcare as a Component Engineer. My responsibilities were to regulate the electronic components that are used in designs globally based on technology and sourcing restrictions. After six months my role changed to Signal Integrity Expert. In this role I had to assist engineers in resolving signal integrity (analog effects of a digital component) issues on their designs. In 2003 I was promoted to Signal Integrity/RF/Analog Expert. In this role I lead a team of electrical engineers globally and assist in sharing of best practices in signal integrity, RF and analog aspects of the design. The most exciting part of my job is when we get to tackle new technology designs with engineers globally. The most recent success is our assistance in the design of the new CT machine called VCT (volumetric CT). The VCT can perform a heart scan within 5 seconds and a whole body scan within 10 seconds which is very crucial especially in ER. One of the other benefits is virtual colonography (colon cancer happens to be one of the most deadly cancer since it is difficult to detect in the early stages). Some facts on my personal life, I am married to an engineer and I volunteer my time to teach second grade students. My hobbies are canoeing, swimming & snorkeling.



## **Volunteers Needed!**

### **Advertising and Fund Development Coordinator**

A person is needed to help manage invoices and payment receipt for advertising, donations, and other Section fund development. Spreadsheets, invoice templates and other documents have been created to support this position. This person will be the liaison to the individual and Corporate Sponsors.

Estimated time per month: 3 hours. Resources required: Email address and phone number for contacting sponsors. All template documents in Microsoft Word and Excel. Training is provided. Please contact [Gina.Janke@swe.org](mailto:Gina.Janke@swe.org) if interested.

### **A Wisconsin SWE Volunteer Opportunity!**

#### **E-Week: February 2006 “Connecting Educators with Engineering”**

SWE is looking for several people to donate an hour or more in the following areas to support a SWE-WI sponsored E-Week essay contest for sixth graders.

Volunteers are needed immediately (August 29<sup>th</sup> through October 1<sup>st</sup>) to:

- Assist in distributing notifications to schools (paper and e-mail)
- Support a website connection on the SWE-WI page for entries and communication
- Create and review the essay application and judging forms

Additional volunteers will then be needed from October 1<sup>st</sup> through January 31<sup>st</sup> to

- Process the completed essays
- Serve as judges to review competition essays
- Send out notices to winners and thank you notes to participants

Please contact Julie McMullin @: [JMcMullin@brwnald.com](mailto:JMcMullin@brwnald.com)

### **Interested in being involved? Here’s your chance! Consider these great opportunities:**

- **Volunteer on your own time schedule!**

Would you be willing to call a new member to welcome them to our quickly growing organization? We are looking for volunteers! One thing we like to do for new members is give them a welcome call and ensure that we have the correct contact information for them. If you would be interested in participating in this activity, please contact SWE-WI Membership Chair Barb Gosenheimer at [Barbara.gosenheimer@swe.org](mailto:Barbara.gosenheimer@swe.org) and she will get you started.

- Other national and regional volunteer opportunities are posted regularly to the mailing list RegionH-Business. See <http://www.msn.fullfeed.com/~swewi/moreswe.htm> for more on mailing lists.

- **The Collegiate Leadership Coach Committee (CLCC)**, former Student Section Vitality Task Force, is looking for more coaches to support the student sections. They would like to have one Collegiate Leadership Coach (CLC) for every 5 schools in the Region. Currently, region H has 43 student sections and we have only 3 CLCs. We definitely can use more coaches. If interested, please contact Cathi Yee ([Catherine.yee@swe.org](mailto:Catherine.yee@swe.org)) directly for an application form. Thank you for your support in advance!

## Recent Meetings/Activities



### SWE-Wisconsin Section FY06 Executive Council

Pictured left to right: Susan Thomas Schlett, President (holding baby Shea Schlett); Betty Leonhard, Vice-President; Gina Janke, Treasurer; Julie McMullin, Career Guidance Chair; Barb Grlica, Secretary; Vanessa White, Website Administrator; Barb Gosenheimer, Membership Chair; Elizabeth Mathew, Professional Development Chair; Rita Murino, Section Representative; Dina Bertolini, Section Representative

The SWE-WI Executive Council (EC) kicked off the fiscal year with a Strategic Planning Meeting on a very hot day, July 24, 2005! National SWE tactical plans as they relate to Wisconsin Section activities were reviewed.

## Girl Scout Survivor Camp – Dawn Rossmiller

Date: Thursday, July 28, 2005. Time: 8:00 am. I arrive at Camp Alice Chester Girl Scouts Camp in East Troy ahead of schedule. I met up with Andrea at the main entrance to the camp. She is in charge of organization of the girl scouts and was on her way to see another group of campers on the other side of the road. I decided to take a little walk, since I was about an hour early. I discovered quickly what a beautiful area it was and that the girl scouts had a lot of deer flies to fend off. I returned to the main entrance area and waited until it was time to go to the lodge.



Soon a nice person came to where I was sitting and introduced herself to me as Buster. We headed off to the craft cabin to get glue and glue guns that would be used to build small bridges out of wood. We talked about what the activities for the girls were going to be today and she asked me about what I do each day. This was a good practice for me to discuss structural engineering as a whole and then specify what kind of work I do.

At 9:00 am the girl scouts showed up at the lodge, where we were setting up for engineering feats for the day. There were four groups of girls. Each group was composed of five seventh grade girls. In accordance with Survivor tradition, each group had a name, a colored headband and chant that they performed for me, after which, I proceeded to tell the girls what I do. I began with discussing that I have a civil engineer degree, am a structural engineer by trade and that I work on commercial and residential buildings. One misconception that seemed to be widespread among the tribes is that an architect can design the structural components of the buildings they design. I gently let them know that I work with several architects and engineers. The architects design what materials to use and size the building. The engineers size the building materials and make sure the building will withstand gravity and lateral loading. I also discussed the different types of building materials that I work with, including concrete, wood and steel. I brought along a few pictures of buildings that I have recently worked on. The girls had a lot of questions. One of the questions was, "what type of classes should you be good at?" This was a great question and when I mentioned algebra, there was a great moan among the tribes. One girl blatantly said, "I hate algebra."

### **Girl Scout Survivor Camp – Dawn Rossmiller (continued)**

We proceeded to the activities shortly after that. The activities consisted of two timed trials for the girls to work in teams and compete against each other. The first activity was a cantilever exercise in which they were given a stack of loose-leaf sheets of paper and a roll of masking tape. Buster and I had already set up one-foot square areas on the exterior of the lodge; basically a box defined by masking tape. The purpose of this exercise was to create a cantilever of paper and tape. The tribe that constructed a paper cantilever that was the furthest away from the wall without touching the ground won. There were no prizes for the activities, just the assurance that your tribe did the best. This was a difficult exercise for the tribes, since paper is quite flimsy and the more tape and paper you add, the more weight you have, which in turn causes them to add more tape and paper for strength. It sounds rather simple, but it's not that easy. Most of the cantilevers were about 4 pages or 44 inches long before they drooped down towards the ground.

The next activity was a bridge made out of sticks that they picked up around the lodge and glue. A low temperature hot glue gun was used because of its adherence and hardening speed. Buster and I had to be able to put our fist underneath the bridges. Also a stack of books was placed on top of the bridge to test for strength. All of the tribes, except one, had a bridge that held all of the books. The tribe that failed the exercise simply ran out of time. They had all the components of the bridge, but couldn't glue them together fast enough.

I was pretty impressed with the team effort of the girls and I thought it was a great idea to start them thinking about a career in engineering. I personally enjoy what I do and I hope that I portrayed that to these impressionable young girls. It's not as much about the paycheck that I receive every couple of weeks, but more about making a difference in the world around us. To be able to say to someone, "see that building over there, I worked on that building." It's about pride and accomplishment. I think the girl scouts saw a little of that with their accomplishments for the day. I had a wonderful day and I hope to do it again next year.

## Council Of Representatives News



### FY2005 SWE Region H Awards Announced!

The following awards were announced by during the Region H Conference Call on July 14, 2005:

#### SECTION AWARDS

- CAREER GUIDANCE – DETROIT
- PROFESSIONAL DEVELOPMENT – MINNESOTA
- PROFESSIONAL DEVELOPMENT HONORABLE MENTION – CENTRAL ILLINOIS
- INNOVATION – CENTRAL ILLINOIS
- **CONTINUOUS IMPROVEMENT – WISCONSIN!!**
- CONTINUOUS IMPROVEMENT HONORABLE MENTION – MINNESOTA
- MEMBERSHIP GROWTH – EAST CENTRAL IOWA 31%
- MEMBERSHIP RETENTION – SOUTHWEST MICHIGAN 100%

Section Awards will consist of a certificate and a \$50 honorarium which will be presented to the Section during the Region H meeting at the National Conference in Anaheim this November 2005.

#### INDIVIDUAL AWARDS

- SIGNIFICANT (COMPANY) SUPPORT AWARD – CATEPILLAR
- **DISTINGUISHED SERVICE AWARD – LISA HENN!!**  
(LISA WAS NOMINATED BY SWE-WI)



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### Section Website: <http://www.msn.fullfeed.com/~swewi>

Check out the website for lots of useful SWE information! Do you have other ideas? Let us know! We'd love to add even more material to the site! Send e-mail to [swe-wi@swe.org](mailto:swe-wi@swe.org).



### Advertising Information

Newsletter ads, per issue: 1/2 page ad = \$25. Full page ad = \$50. For more information, contact Gina Janke ([gina.janke@swe.org](mailto:gina.janke@swe.org), or 262-636-1315).

Webpage ads, per 1 month period: \$15 for text & simple graphic link. Graphic should be in one of the following software formats: JPEG, GIF, BMP, TIFF, TGA, RAS, EPS, PCX, PNG, and PCD  
For more information, contact Vanessa White ([vanessa.white@swe.org](mailto:vanessa.white@swe.org)).



# MBA SUPPLY CHAIN MANAGEMENT

Real Focus, Real Success

- Students are exposed to valuable learning outside of the classroom. Enrichment activities and events underscore current supply chain practices and expose students to forward thinking about how new technologies such as RFID will impact the supply chain.
- The Grainger Center won the 2004 International Graduate Logistics Case Competition. Grainger Center teams have the distinction of being the only teams to have won this elite competition twice. We are also the only program to have teams finish in the top three in every competition since first participating in 1999.
- 100 percent of May 2004 graduates had an offer for a full-time position at graduation.
- 100 percent of continuing students were placed into meaningful summer internships.



**SCHOOL OF BUSINESS**  
**University of Wisconsin-Madison**  
Grainger Center for Supply Chain Management

608/262-1941 • Email: [graingerctr@bus.wisc.edu](mailto:graingerctr@bus.wisc.edu) • [www.bus.wisc.edu/grainger](http://www.bus.wisc.edu/grainger)

## PLACEMENT

### Internship Offers

Best Buy  
Briggs & Stratton (2 offers)  
Cisco Systems  
E.&J. Gallo Winery  
W.W. Grainger, Inc.  
Harley-Davidson Motor Company  
IBM Corp.  
Kohler Company  
Oshkosh Truck  
Ryerson Tull  
Schreiber Foods, Inc. (1 of 2 offers accepted)  
Average Accepted Monthly Base Salary: \$5,145

### Full-time Employment Offers

Abbott Laboratories  
Cargemini U.S.  
Eaton Corp.  
ExxonMobil Chemical  
GE Medical Systems  
General Mills  
Guidant Corp.  
Hewlett-Packard (2 of 2 offers accepted)  
IBM (1 of 2 offers accepted)  
Intel  
Kendall Jackson Estates  
Lands' End  
Nike (2 offers)  
Siemens Medical Solutions  
Snap-On Inc.  
Philip Morris  
Average Accepted Base Salary: \$81,413

**Bold** type indicates an accepted offer



## Honor, integrity, valor, and exceptional opportunity define this badge.

In today's world, the role of the FBI is more critical than ever. Our mission is a noble one. It encompasses protecting the country from terrorism, contributing to homeland security, and investigating violations of federal criminal law. In essence, it entails securing the integrity and safety of America, her communities, and her way of life. Accept the challenge — and experience the rewards of becoming one of 'America's Finest.'

**Special Agents** come from a broad range of educational disciplines and professions, however, the FBI has special needs for candidates with critical skills among the following areas: **Computer Science or IT, Engineering, Foreign Counterintelligence, Information Systems Security, Military Intelligence, Physical Sciences, Accounting/Financial Management, and Foreign**

**Language (Arabic, Chinese - all dialects, Farsi/Persian, Hebrew, Hindi, Japanese, Korean, Pashtu, Punjabi, Russian, Spanish, Urdu, and Vietnamese).**

To qualify for the FBI Special Agent position, you must possess a four-year college degree plus three years of professional work experience, be available for assignment anywhere in the FBI's jurisdiction, be between the ages of 23 and 36, and be in excellent physical condition with the ability to pass a rigorous physical fitness test.

To learn more about these and other opportunities, please visit our Web site for complete details. Positions added daily.

[www.fbijobs.com](http://www.fbijobs.com)

You must be a U.S. citizen and consent to a complete background investigation, drug test, and polygraph as a prerequisite for employment. Only those candidates determined to be best qualified will be contacted to proceed in the selection process. TDD: (202) 324-2967.

The FBI is an equal opportunity employer.



# FBI

Special People. Special Agents.

## Upcoming Events!

- Sept. 13, 2005..... **Web Seminar – Critical Communication Skills for Women in Technology**  
Sept. 27, 2005..... **Leadership Advancement Conference – Leading & Managing Change, Minneapolis, MN**  
Sept. 29, 2005..... **SWE-WI Kickoff Meeting at Buca Di Beppo Restaurant, Milwaukee, WI**  
Nov. 15, 2005..... **Web Seminar – Transitioning from Engineer to Manager**  
Nov. 3-5, 2005..... **SWE National Conference, Anaheim, CA (early-bird registration prices end 9/14/05!)**  
Mar. 3-5, 2006..... **SWE Region H Conference, Iowa State, Ames, IA**



### *About The Society of Women Engineers...*

#### **Our Principles:**

The Society of women Engineers is a non-profit organization dedicated to informing young women, their parents, counselors, and general public, of the qualifications and achievements of women engineers, and the opportunities open to them.

#### **Mission:**

- Stimulate women to achieve full potential in careers as engineers and leaders.
- Expand the image of the engineering profession as a positive force in improving the quality of life.
- Demonstrate the value of diversity.

#### *Address changes to:*

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