



SWE Outlook

October 2001

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We will gladly include news items and meeting announcements from SWE Student Sections and nearby SWE Sections in *SWE Outlook*. Please send information to Barbara.Faust@swe.org. Announcements for other organizations will be included as time and space permit.

Montco Sub-Section Meeting

Join us for dinner to network with other SWE members and share your thoughts and ideas.

Date: Thursday, October 18, 2001
 Time: 6:00 pm
 Place: Bertucci's Restaurant
 Plymouth Meeting Mall
 RSVP: Heather Bernardin
 610-989-3212
hbernardin@fcg.com

...from the Editor's Desk - A Time for Reflection

The events of September 11th have been cause for some serious reflection on life and personal priorities. Most, if not all, of us have been directly impacted by the results of the four plane crashes. Many of us have family, friends, and/or acquaintances who were lost or who lost one of their loved ones.

In our SWE family, New York Section Representative Susan Miskowicz was working for the Port Authority on the 72nd floor of Tower 1 in the World Trade Center when the first plane hit Tower 1. She called her mother and said that she was OK. She has been missing ever since. The FY01 and FY02 Officers of the New York Section request that we keep Susan and all the others who are victims of this attack in our thoughts and prayers.

Life is precious - and we need to make the most of it. Pray for those who have been lost or missing, provide comfort for those left behind, spend time with family and friends, enjoy life, take time to smell the roses and see the fall foliage, use your engineering training and background to diffuse panic and encourage common sense. Be prudent and careful, but do not let fear control your life - that is what the terrorists want.

Barbara Faust

SWE-Philadelphia
 United We Stand

Our deepest sympathy is extended to all who have been affected by the crashes at the World Trade Center, the Pentagon, and in western Pennsylvania.

SWE Outlook is the original name conferred on the Philadelphia Section Newsletter by the section charter members and newsletter editor. This year we are continuing the tradition.

SWE Calendar - FY02

| Date | Event | Location |
|--------------|--|---|
| October 18 | Sub-section Meetings Montco Sub-section | Various Bertucci's, Plymouth Meeting |
| 26-27 | Board of Directors Meeting #2 | Chicago, IL |
| November 15 | Section Meeting-Business Dressing from Casual to Corporate | Radisson Hotel, King of Prussia |
| 16-18 | Region E Student Conference | Cornell University, Ithaca, NY |
| December 13 | Sub-section Meetings Montco Sub-section | Various Bertucci's, Plymouth Meeting |
| 15 | Nomination Deadline for Society Awards | |
| January 15 | Section Meeting - US 202 Construction | TBD |
| February 8-9 | Engineering Mini-Camp during Engineers' Week Future City Competition Other Engineers' Week Activities Board of Directors Meeting #3 | Widener University TBD Various Chicago, IL |
| March 9 | Technical Tour of a Pharmaceutical Plant FIRST Competition | TBD TBD |
| 15 | Council of Section Representatives Meeting Abstract Deadline for National Conference | Chicago, IL |
| April 10 | Awards Banquet | |
| 19-21 | Delaware Fair Science Fairs - judging Region E Conference | Fort Washington Expo Center Bethlehem, PA |
| May 18 | Technical Tour - US Mint | Philadelphia |
| 12 | Susan G. Kormen Race for the Cure | Philadelphia |
| 16-17 | Board of Directors Meeting #4 | Washington, D.C. |
| 18 | SWE Leadership Summit | Washington, D.C. |
| June | Family Event - Minor League Baseball Game | TBD |
| July 27-31 | 12th Internatl Conf of Women Engineers & Scientists-ICWES 12 | Ottawa, Canada |
| October 9-12 | National Conference | Detroit, MI |

Announcements

Lehigh Valley Section events. Contact Kathy Kinsey (570-467-4482 or kinseyko@apci.com) for more details.

- Oct 17 Dinner meeting hosted by the **Reading Sub-section** in Kutztown - WTC Disaster Review will be discussed by a civil engineering panel.
- Oct 27 Spring **Region Conference Planning** Meeting at Lisa Walton's home (all are welcome); 11 am - 12:30 pm
- Nov 7 **Joint meeting with Lafayette and Lehigh Student Sections** at Lafayette; 6 pm; speaker is Dr. Mary Roth, Lehigh Valley Engineer of the Year

Bechtel National, Inc. will be hosting an Open House in Philadelphia at the Crown Plaza on October 27th to recruit engineers and construction management personnel for their **Waste Treatment Project** in Richland, WA. For more information, contact Ruth M. Allen, WTP HR, 3000 George Washington Way, Richland, WA 99352, phone: 509-371-5168, fax: 509-371-5115, e-mail: rmallen@bechtel.com

Section News

September Meeting

Maggie Schwartz and Barbara Faust shared information they received at the SWE National Conference held in Denver in June with Philadelphia Section members during dinner on September 19th at Viggiano's Italian Restaurant in Conshohocken.

SWE is undergoing many organizational changes: responsibilities of the Society Vice Presidents have changed to be more in line with the goals and mission of the Society; Headquarters was moved from New York to Chicago, most of the administrative office work has been outsourced to Bostrom Associates, and there is now a satellite office in Washington, DC; a new format incorporating knowledge-based strategic governance (KBSG) techniques was tried at the Council of Section Representatives meeting and found to be very successful; if a national bylaws change is approved by the Society membership, the name of the Council of Section Representatives will change to "Council of Representatives" to reflect the fact that the Council also includes voting members for the Members-at-Large (MAL) and for the Students in each Region; SWE has established a formal partnership with the Girl Scouts and is in the midst of establishing partnerships with other organizations, such as Girls, Inc., that work with girls and young women; student membership is no longer limited to ABET-accredited or SWE-recognized institutions; a Section Vitality Task Force to provide training in revitalizing sections is now in place for professional sections and will soon be available for student sections.

Girl Scout Junior Jamboree

The **Freedom Valley Girl Scout Junior Jamboree** was held at Camp Tohikane near Quakertown, PA on October 5-7, 2001. Over 600 Girl Scouts from troops in Chester, Montgomery, Delaware, and Bucks counties had registered to attend. This event is so popular among the scouts that participating troops are selected by lottery.

On October 6th, Carole Stowell, Maggie Schwartz, and Barbara Faust conducted four sessions of the "roller coaster" workshop that has been well-received at the SWE-Widener University Engineering Mini-Camp. A total of 51 scouts participated in the workshops. At each session the girls were divided into teams of three or four scouts. Each team used sections of foam pipe insulation that had been cut in half lengthwise to construct tracks for colored marbles. The girls had fun and some real-time design-development experience in laying out interesting paths that permitted the marbles to roll fast and still stay on track. A few of the teams successfully incorporated a loop into their track design. All of the teams were very creative in their use of duct tape and whatever else they could find around the site to provide support for the track "hills" and build in banks for the turns.

November Section Meeting Business Dressing from Corporate to Casual Volunteer SWE Models Needed

Mark your calendar for Thursday, November 15th to see what is appropriate dress in today's business environment. Six to eight SWE volunteers are needed to model the business attire to be provided by Boscov's. Although sizes 10, 12, and 14 are desired, Boscov's will consider any volunteers; students are welcome to participate as models. This dinner meeting will be held at the Radisson Hotel in King of Prussia with a cost of \$25 for Members and \$10 for students. More information will be provided in the November issue of the newsletter. To volunteer as a model, contact Carole Stowell (610-531-5320 or Carole.N.Stowell@lmco.com).

Committee Head Positions Available

We still need of a few good people to lead and coordinate some section activities. You can use these activities to develop your leadership and organization skills in a non-threatening environment. Contact any Section Officer if you are willing to help or need some more information to make your decision. Open positions include:

- **Professional Development Chair** to interface with Headquarters and coordinate section professional development activities.
- **Awards Chair** to coordinate activities associated with nominating members for Section and Society awards. While individual members may take the lead on pulling together a specific national award nomination package, the awards chair is responsible for identifying section members for recognition and to serve as a contact point within the section.
- **Job Bank Chair** to serve as a contact point for companies offering positions and members seeking positions.
- **Programs Chair** to arrange meeting sites and serve as the contact point for local arrangements.
- **Web Site Coordinator** to maintain the Section web site and keep it current.
- **SWE Student Section Counselors** to serve as liaisons between the students and Philadelphia Section members. Counselors are currently needed for SWE Student Sections at Swarthmore, Temple, and University of Pennsylvania. As we expand our Scholarship Program to engineering students at local schools that do not currently have SWE Student Sections, we will also be looking for members to serve as liaisons with those students.
- **Special Projects Chair** to coordinate any special programs or projects that may develop within the year.

Around the Region

Region E Student Conference - Reaching for the Stars

The Region E (Mid-Atlantic) Student Conference is being hosted by Cornell University on November 16-18 in Ithaca, NY. Overnight student participants will be staying at the Holiday Inn in the center of downtown Ithaca, NY. The Cornell Student Section will handle all of the room reservations for student participants. Student registration fees are \$60 for Full Student Registration, \$50 for Registration with No Banquet, and \$30 for a Day Participant. The students specified a deadline of Monday, October 8th. If you are interested in attending, please contact Cindy Winoto (cww5@cornell.edu) or Angel Hill (aeh16@cornell.edu) as soon as possible.

SWE professional members are welcome to attend. The fees are \$50 for Professional Registration with Banquet, \$25 for Workshops and Saturday Lunch, and \$8 for Saturday Lunch only. A number of rooms at the Holiday Inn have also been reserved for professional members who should contact the hotel directly to make their reservation. Information for hotels in the area is given below.

Holiday Inn-Ithaca
222 South Cayuga Street
Ithaca, NY 14850
Phone: 607-272-1000

Ramada Inn Airport and Conference Center
2310 North Triphammer Road
Ithaca, NY 14850
Phone: 1-888-298-2054

Clarion University Hotel
One Sheraton Drive
Ithaca, NY 14850
Phone: 607-257-2000

Statler Hotel
Cornell University
Ithaca, NY 14853
Phone: 1-800-541-2501

Additional information on the Conference agenda and opportunities for company sponsorship may be found on the SWE-NJ website www.sindsor.net.com/njswe in the upcoming meetings section.

Spring Conference Keynote Speaker Named CEO of Vocera Communications

Dr. Julie A. Shimer, keynote speaker for the Spring Mid-Atlantic Region Conference to be held in Bethlehem, PA, on April 19-21, 2002, was recently named as CEO of Vocera Communications, which is based in Cupertino, CA. Vocera Communications (www.vocera.com) is creating a breakthrough wireless communication experience. Their mission is to enhance customer service, productivity, and teamwork throughout organizations by enabling instant communication between people. Find out the practical applications of this new technology at the Spring Conference.

Dr. Shimer has over 20 years of leadership experience with a successful track record of P&L management, product development, engineering and marketing efforts. Most recently she was Vice President and General Manager of 3Com's Residential Connectivity Group, which was responsible for DSL and Cable Modems, Home Networking products, and Internet Appliances. Prior to 3Com she spent 3 years as Vice-President and General Manager of Motorola's

Paging Division where she was responsible for product development, sales, and marketing of their paging and programmable cell phone products. Before that Dr. Shimer spent three years as Vice President of Motorola's Semiconductor Products Sector. She worked for AT&T Bell Laboratories and Bethlehem Steel Company prior to joining Motorola. Dr. Shimer is senior member of the Society of Women Engineers and a charter member of the Lehigh Valley Section; she is actively involved in programs that encourage women to enter engineering fields. She is also a senior member of the IEEE and was on the Board of Directors of the Consumer Electronics Association. She holds a B.S. in physics from Rensselaer Polytechnic Institute and an M.S. and Ph.D. in Electrical Engineering from Lehigh University.

Contact Kathryn Kinsey (kinseyko@apci.com) or Lisa Walton (lmwalton@aol.com) if you need more information on the conference at this time. Updates will be published in this newsletter as they become available.

The Society of Women Engineers is a non-profit, educational service organization dedicated to making known the need for women engineers and encouraging young women to consider an engineering education.

Career Guidance Kits

National Engineers Week 2002 has designed a new hands-on activity kit that explores the fun and fascination of engineering with young children. This kit will work in conjunction with episodes of the PBS television show *ZOOM*. To obtain a free kit, call 703-684-2852 or visit the product catalog section of www.eweek.org.

SWE Panorama

Beginning Friday, September 28th, an electronic version of the Society business news and activities currently published in the SWE Panorama newsletter became available on the web at www.swe.org. Check it out!

SWE Member and Northeast Wilderness Protection Activist

... adapted from *Adirondack Life Collectors Issue 2001*

SWE Pioneer, Fellow, and former Philadelphia Section member Betty Lou Bailey is the subject of the Waterways Profile in the *Collectors Issue 2001* of *Adirondack Life*. Since her retirement from GE in 1994, Betty Lou has worked as a leader of the Adirondack Mountain Club on issues related to the Federal Energy Regulatory Commission (FERC) relicensing of hydroelectric dams on New York's rivers. At age 72, she is still actively enjoys the outdoors and is still an active SWE member (MAL). She prefers white water to still water, and snowshoeing is more to her liking than cross-country skiing. She has hiked the complete length of the Appalachian Trail (in sections) and climbed all 111 of the mountain peaks in New York and New England that are 4000 or more feet high.

Betty Lou's career at General Electric included work on jet engines at Evandale, various space programs at Valley Forge, nuclear power at the Knolls Atomic Power Laboratory in Niskayuna, and gas turbines at GE Power Systems in Schenectady. She first learned to ride a bicycle during the early fifties when she was

29 years old. She remembers that she found riding a bike to be mentally relaxing. Work was difficult, but during an evening ride she could just pedal her cares away. She states that "After an hour on my bike, I couldn't be mad anymore."

While living in Philadelphia in the late sixties, Betty Lou learned the basics of white-water paddling. After moving to Schenectady a few years later, she organized a white-water club and spent many days scouting little-known rivers. Her favorite Adirondack canoe routes include East Canada Creek and the Hudson.

Although Adirondack rivers have been harnessed for power since the 1800s, most of the old dams were never subjected to public scrutiny. Congressional approval for new dams was required in the 1970s, but citizen participation didn't come until the Federal Power Act was amended in 1986. Thanks to Betty Lou Bailey, the Adirondack Mountain Club is a regular at the FERC negotiating table.

New Feature: *Pearls of Wisdom* from the Fellows Panel at 2001 National Conference

The topic of the SWE Fellows Panel at the 2001 Conference was "Having Our Say - Lessons in Life, Leadership, and SWE." Panelists were Debra Evans (Chicago Regional Section), Judie Forbes (MAL-B), Jean Hoppert (MAL-H), Anna Salguero (Past Society President, Southwest Texas Section), Irene Sharpe (Detroit Section), and Susan Whatley (Past Society President, MAL-D) and the Moderator was Alexis Swoboda (Central New Mexico Section). The panelists have nearly 170 years of combined engineering experience and at least the same amount of SWE experience. They included mothers, grandmothers, and single women as well as a US Navy veteran, a part-time librarian, more than one quilter, a fox hunter, a pilot, and more - they are women with many talents and interests and a willingness to share their histories. Each newsletter edition will include some of the Fellows' advice for sanity and success - Pearls of Wisdom from our SWE Fellows.

To be an effective leader you must
"Know your territory, know yourself, and know your stuff."
Irene Sharpe

Professional Development News

SWE Professional Development Initiative

SWE members can now connect with other members with similar issues and concerns via a series of moderated conference calls to allow discussion on selected topics. The calls will begin at 7 pm Eastern time (6 Central / 5 Mountain / 4 Pacific). To join the call, dial 1-305-503-1852. The extension number for the calls will be 819.

The first two discussions on Recently Laid Off and Survivor Guilt were held on October 4th and 11th, respectively. Remaining topics for this initial round of discussions are:

- October 17 - Re-entering the workforce
- October 24 - Recent college graduates
- October 30 - Employer chat - finding, keeping, and motivating good people
- November 6 - Recruiter chat

For more information, please contact Diane Peters, Professional Development Chair, at diane.peters@swe.org

ELECTRIC EXPO 2001, one of the premiere electrical expositions in North America, will be held at the Valley Forge Convention Center in King of Prussia on October 16 -17, 2001. This event is sponsored by the Electrical Association of Philadelphia. The exhibits will be open from 2:00 to 8:00 PM on each day.

Additional program activities include:

Keynote Luncheon - Energy Crises: Myths and Realities

Speaker: Ken Lawrence, President of PECO Energy
Tues, Oct 16, noon to 2:00 PM

Workshop 1 - Soares Grounding of Electrical Systems
Tues, Oct 16, 8:00 AM to 5:00 PM

Workshop 2 - Major Changes to the National Electric Code-2002
Wed, Oct 17, 8:00 AM to 5:00 PM

Seminar - When the OSHA Inspector Knocks
Wed, Oct 17, 2:00 to 4:00 PM

For registration information, call 610-668-1700 or visit the web site www.eap.org. Register at: www.eap.org/trade_show.htm.

MentorNet

MentorNet, the National Electronic Industrial Mentoring Network for women in engineering and science, is a non-profit initiative sponsored through grants from private industry and the government to connect scientific and technical professionals working in industry with undergraduate and graduate women studying engineering and related sciences at participating schools across the US and Canada. A framework and training to support year-long mentoring relationships though e-mail is provided. *MAL News* July/August 2001 issue reports that E-mentors involved in last year's program spent an average of 20 minutes per week while gaining personal satisfaction and skills from guiding future colleagues. On-line mentor applications must be completed by October 31 and are available at www.mentornet.net.

New SWE Web Sites for Career Advice

Information on professional development opportunities of interest to SWE members may be obtained by subscribing to an e-mail list for the SWE Professional Development Committee. Contact Diane Peters, committee chair, at diane.peters@worldnet.att.net to get on the list.

Answers to your career questions may be obtained by contacting Susan Chapman, Career Coach, through www.swe.org/SWE/CD/Career_Advice.htm.

Penn State World Campus

Penn State can provide advanced training via the World Wide Web for programs and courses in:

- Adult Education (Master's Degree)
- Antenna Engineering
- Architectural Lighting Design
- Community and Economic Development
- Customer Relationship Management
- Counselor Education - Chemical Dependency
- Dietetics
- Educational Technology Integration
- Fundamentals of Engineering
- Geographic Information Systems
- Hotel, Restaurant, and Institutional Management
- Letters, Arts, and Sciences (Baccalaureate Degree completion)
- Logistics and Supply Chain Management
- Noise Control Engineering
- Reliability Engineering
- Supervisory Leadership
- Turfgrass Management
- Webmaster

For more information, visit web site www.worldcampus.psu.edu or call 800-252-3592.

Practical Heat Treating

A course on Practical Heat Treating will be presented by the Greater Philadelphia Chapter of the American Society for Nondestructive Testing and the Philadelphia Chapter of the American Society for Metal International.

This Materials Engineering Institute course will be held from November 27, 2001 through March 19, 2002 on Tuesday evenings from 6:30 to 9 PM at SPS Technologies in Jenkintown. The cost of \$270 includes the 15-lesson course with 2.8 CEUs, qualified ASMI instructors, and a video presentation each week. For more information, contact Fred Klock or Bob Rich (phone: 215-572-3485; fax: 215-572-3725; e-mail: fklock@spstech.com).

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Philadelphia, PA 19102

Address Correction Requested

Visit our Web Site: <http://www.libertynet.org/sweps>
Contact Us by E-mail: phila_info@swe.org

SWE Philadelphia Section Newsletter
September 2001

Montco Sub-Section Meeting

Thursday, October 19, 2001
Bertucci's Restaurant
Plymouth Meeting Mall
Norristown Exit of PA Turnpike

RSVP to Heather Bernardin by October 17, 2001

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Thank you!