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Section Meeting
Business Dressing from Corporate to Casual

Join us for dinner and a presentation on workplace dressing, with apparel provided by Boscov's Department Store and models provided by SWE. This event promises to be an interesting and fun, especially since some of the models have “real world” shapes! As an added bonus, Boscov's is providing a “goodie bag” for all attendees. Students are encouraged to participate.

Date: Thursday, November 15, 2001
Time: 6:00 pm
Place: Radisson Hotel - Conestoga Room
       1160 First Avenue
       King of Prussia, PA
       610-337-2000

Cost: $25 for Members and guests
      $10 for Students

Meal Choice: Chicken or Vegetarian

RSVP to: Carole Stowell by November 9th
        610-531-5320
        Carole.N.Stowell@lmco.com

Driving Directions:

From Philadelphia take the Schuylkill Expressway (I-76) West towards Valley Forge. Exit at Mall Boulevard (Exit 327, which is the last exit before the Turnpike and the next exit after 202 South exit). Turn right onto Mall Boulevard (the King of Prussia Mall is straight ahead and Lockheed Martin is on the left). At the next light, turn right on Gulph Road (Crane and Barrel is on the left, a new restaurant (steak house), Denny's, and Maclntosh Inn are on the right. Proceed on Gulph Road approximately 1.5 miles to First Avenue. Turn right onto First Avenue (Baptist Convention is on the right). Turn left about 100 feet from the intersection into the hotel parking lot.

From Lansdale area take PA 363 South (Valley Forge Road-N Park Ave-Ridge Pike-Trooper Road) to US-422 East ramp towards Bridgeport (PA-23) and King of Prussia. Proceed on US-422 East for about 1.5 miles to exit for King of Prussia Industrial Park. At the traffic light, go straight across Gulph Road (Baptist Convention is on the far right corner and the hotel and the Valley Forge Convention Center are on the far left). Turn left about 100 feet from the intersection into the hotel parking lot.

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>November</td>
<td>Section Meeting - Business Dressing from Corporate to Casual</td>
<td>Radisson Hotel-Conestoga Room, King of Prussia</td>
</tr>
<tr>
<td>15</td>
<td>Region E Student Conference</td>
<td>Cornell University, Ithaca, NY</td>
</tr>
<tr>
<td>16-18</td>
<td>Region E Student Conference</td>
<td></td>
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<tr>
<td>December</td>
<td>Sub-section Meetings</td>
<td>Various</td>
</tr>
<tr>
<td>13</td>
<td>Montco Sub-section</td>
<td>Bertucci’s, Plymouth Meeting</td>
</tr>
<tr>
<td>15</td>
<td>Nomination Deadline for Society Awards</td>
<td></td>
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<tr>
<td>January</td>
<td>Section Meeting - US 202 Construction</td>
<td>TBD</td>
</tr>
<tr>
<td>15</td>
<td>Philadelphia Regional Future City Competition</td>
<td>Widener University</td>
</tr>
<tr>
<td>26</td>
<td>Nomination Deadline for Society Awards</td>
<td></td>
</tr>
<tr>
<td>February</td>
<td>National Engineers Week</td>
<td>Various</td>
</tr>
<tr>
<td>17-23</td>
<td>Engineering Mini-Camp</td>
<td>Widener University</td>
</tr>
<tr>
<td>TBD</td>
<td>Introduce a Girl to Engineering Day</td>
<td>Various</td>
</tr>
<tr>
<td>21</td>
<td>Board of Directors Meeting #3</td>
<td>Chicago, IL</td>
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<tr>
<td>8-9</td>
<td>Board of Directors Meeting #3</td>
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<tr>
<td>March</td>
<td>Technical Tour of a Pharmaceutical Plant</td>
<td>TBD</td>
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<tr>
<td>9</td>
<td>Council of Section Representatives Meeting</td>
<td>Chicago, IL</td>
</tr>
<tr>
<td>15</td>
<td>Abstract Deadline for National Conference</td>
<td></td>
</tr>
<tr>
<td>22-23</td>
<td>FIRST Philadelphia Regional Robotics Competition</td>
<td>Drexel University</td>
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<tr>
<td>April</td>
<td>Awards Banquet</td>
<td>TBD</td>
</tr>
<tr>
<td>10</td>
<td>Delaware Fair Science Fairs - judging</td>
<td>Fort Washington Expo Center</td>
</tr>
<tr>
<td>19-21</td>
<td>Region E Conference</td>
<td>Bethlehem, PA</td>
</tr>
<tr>
<td>May</td>
<td>Technical Tour - US Mint</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>18</td>
<td>Susan G. Kormen Race for the Cure</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>12</td>
<td>Board of Directors Meeting #4</td>
<td>Washington, D.C.</td>
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<tr>
<td>16-17</td>
<td>SWE Leadership Summit</td>
<td>Washington, D.C.</td>
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<tr>
<td>June</td>
<td>Family Event - Minor League Baseball Game</td>
<td>TBD</td>
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<tr>
<td>July</td>
<td>12th International Conference of Women Engineers &amp; Scientists-ICWES 12</td>
<td>Ottawa, Canada</td>
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<tr>
<td>October</td>
<td>FY03 National Conference</td>
<td>Detroit, MI</td>
</tr>
<tr>
<td>9-12</td>
<td>FY03 National Conference</td>
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</tbody>
</table>

### Announcements

- **Introduce a Girl to Engineering Day** is February 21, 2002. For more information, visit web sites: www.eeweek.org www.discoverengineering.org www.engineeringsights.org

- **Free Career Guidance Kits** designed by National Engineers Week 2002 to provide hands-on activities to explore the fun and fascination of engineering with young children are available by calling **703-684-2852** or by visiting the product catalog section of www.eeweek.org. The kit will work in conjunction with episodes of the PBS television show ZOOM.

- **Computers for Construction 2001**, a conference and trade show dedicated exclusively to technology issues and solutions for contractors, engineers, architects, and owners, will be held on **November 13-15, 2001** at the Pennsylvania Convention Center in Center City Philadelphia. A new session, Recovery and Rebuilding After September 11, has been added on Wednesday, November 14, 2001 from 3:00 to 4:00 PM; contributions collected at the door will be donated to the Families of Freedom Scholarship Fund (see www.familiesoffreedom.org for more information on this fund). For details of the conference schedule, special events, exhibitor list, registration and other information, visit http://www.computersforconstruction.com.
Section News

Philadelphia Regional Future City Competition

The Philadelphia Regional Future City Competition will be held on Saturday, January 26, 2002 at Widener University. Teams made up of 7th and 8th grade students work with their teachers and engineer mentors to:

- Design a city of the future using Maxis SimCity3000™ software
- Build a working model of a section of a city using recycled products
- Write an essay about their city
- Verbally present their city to a panel of judges representing the local engineering, planning, and architecture communities.

Engineers and engineering students are needed from all over the Delaware Valley to serve as mentors and judges. For more information, or to sign up, please visit www.futurecityphilly.org. SWE-Philadelphia is a sponsor of this event and we provide an award for the project that best incorporates ergonometric design principles.

PSPE Pennsylvania Initiative

a message from Harve Hnatiuk, Southeast Region Vice President, PSPE

In the aftermath of 9-11-01, many people asked the question: "What Can I Do?". We all soul-searched and many, if not all, of us donated to one or more of the many charities that have provided relief and help for the victims and the families of the victims of the terrorist attacks of New York City and Washington, DC as well as the crash of the jetliner in Western PA that resulted from heroic on-board actions.

As citizens, we have helped with our treasure. As engineers, many of us wanted to help with our time and our talent. As a representative of PSPE -- the Pennsylvania Society of Professional Engineers -- I contacted the New York State Society of Professional Engineers to ask what help was needed in New York City. PSPE's offer to provide help during the early aftermath of 9-11-01 was well-received. It was not needed because the engineers from New York State and the New York Metropolitan Area had volunteered in droves...this was particularly heartwarming: Engineers in Action helping others in times of trouble.

PSPE's Pennsylvania Initiative was developed as a program so that engineers in our Commonwealth and its vicinity will never again have to ask that question -- "What Can I Do?" -- in the event of future emergency or disaster situations.

The program is being managed by PSPE but it is for all engineers, regardless of whether they are members of PSPE or not. The program is for registered PE's as well as individuals who are not registered. The program is an opportunity to express a willingness to help others, using the lessons we have learned as engineers over the years.

PSPE, as an umbrella professional organization that represents all engineering disciplines, is well situated and is committed to providing oversight for this program.

Pennsylvania's volunteer list will be shared with state and national agencies in our region so that, when time is of the essence, volunteers with the skills and the backgrounds that are needed can be contacted.

Participation in this program is non-binding. Some of us will be unable to answer a call even during the most serious of situations due to personal or other reasons. Our goal is to have a long list of volunteers with a diversified set of engineering skills so that those engineers who are available and who are needed can be quickly contacted and mobilized.

PSPE welcomes SWE's participation in the Pennsylvania Initiative. Please visit www.pspe.org to volunteer on-line or to download a form that can completed off-line. For more information about the Pennsylvania Initiative, please contact Harve Hnatiuk, PE
Southeast Region Vice President, PSPE
215-542-8700, x133
harvehnat@aol.com.

Open Leadership Positions

SWE-Philadelphia is still in need of Members who are willing to lead and coordinate some section activities. This is a good way to develop your leadership and organizational skills. Please contact any Section Officer (see page 7) for more information. Open positions include:

- Professional Development Chair
- Web Site Coordinator
- Awards Chair
- Counselors for the SWE Student Sections at Swarthmore and Temple
- Programs Chair
FIRST Philadelphia Regional Robotics Competition

Drexel University will host the fourth annual FIRST Philadelphia Regional Robotics Competition on March 22 and 23, 2002. Forty-five high school teams, consisting of students, teachers, corporate, foundation and university sponsors from the region, will compete using the robot they design and build from a standard kit of parts.

FIRST (For Inspiration and Recognition of Science and Technology) is a nonprofit organization that generates innovative programs to convince America’s youth that it is important to learn science and math, engineering and technology. FIRST helps students to work as a member of a team, stay focused on a task, think creatively, test ideas, and learn hands-on technological skills. Most importantly, FIRST motivates these students to achieve academically and fosters their excitement about science and technology.

The FIRST Robotics Competition is an event that develops critical skills in science and technology in a super-charged learning atmosphere. This corporate- and community-sponsored competition involves more than 15,000 high school students, teachers, mentors, and engineers on 300 teams across the country.

Corporations and/or universities team with a high school in

Local Teams Registered for FIRST Philadelphia 2002

<table>
<thead>
<tr>
<th>SWE-Philadelphia Section Area</th>
<th>SWE-Lehigh Valley Section Area</th>
<th>SWE-NJ Section Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Chester Area School District</td>
<td>Agnes Irwin School P.O. Box 407</td>
<td>Salem County High Schools Carneys Point, NJ</td>
</tr>
<tr>
<td>East Senior HS</td>
<td>Mt. St. Joseph Academy 120 West Wissahickon Avenue</td>
<td>Rancocas Valley Regional High School</td>
</tr>
<tr>
<td>450 Ellis Lane</td>
<td>Flourtown, PA 19031</td>
<td>Jacksonville &amp; Ridgeway Street Mt. Holly, NJ 08060</td>
</tr>
<tr>
<td>West Chester, PA 19380</td>
<td>Mastbaum AVTS 3116 Frankford Avenue</td>
<td>Eastern Regional High School 1306 Laurel Oak Road Voorhees, NJ 08043</td>
</tr>
<tr>
<td>Frankford - Lincoln High School</td>
<td>Philadelphia, PA 19134</td>
<td>Trenton Central High School 400 Chambers Street</td>
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<tr>
<td>Cluster</td>
<td>Strath Haven High School 205 South Providence Road</td>
<td>Trenton, NJ 08609</td>
</tr>
<tr>
<td>Oxford Avenue and Wakeling Street</td>
<td>Wallingford, PA 19086</td>
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<tr>
<td>Philadelphia, PA 19124</td>
<td>Springfield Township High School 8051 Stenton Avenue</td>
<td></td>
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<tr>
<td>William Penn High School</td>
<td>Wyndmoor, PA 19038</td>
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<tr>
<td>101 West College Avenue</td>
<td>North Penn High School 1340 Valley Forge Road</td>
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<tr>
<td>York, PA 17403</td>
<td>Lansdale, PA 19446</td>
<td></td>
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<tr>
<td>Lansdale Catholic High School</td>
<td>Wissahickon High School 521 Houston Road</td>
<td></td>
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<tr>
<td>1330 Mark Drive</td>
<td>Ambler, PA 19002-3599</td>
<td></td>
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<tr>
<td>Landale, PA 19446</td>
<td>Wissahickon High School 521 Houston Road</td>
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<tr>
<td>Wissahickon High School</td>
<td>Ambler, PA 19002-3599</td>
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<td>North Penn High School 1340 Valley Forge Road</td>
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<td>1330 Mark Drive</td>
<td>Lansdale, PA 19446</td>
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<tr>
<td>Upper Darby High School</td>
<td>Edison Faireira High School 151 West Luzerne Street</td>
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<tr>
<td>601 North Lansdowne Avenue</td>
<td>Philadelphia, PA 19140</td>
<td></td>
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<tr>
<td>Drexel Hill, PA 19026</td>
<td>Hatboro-Horsham High School 899 Horsham Road</td>
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<td></td>
<td>Horsham, PA 19044</td>
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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.
**Around the Region**

**DelMar Peninsula Section**

- Nov 6  **Daimler Chrysler Newark Assembly Tour**: 6 pm; Route 896, Newark, DE. Contact Vicki Land (302-369-1123 or vland28@yahoo.com) for more information.

- Dec 3  **Longwood Gardens Holiday Display**: 6 pm; Route 1, Kennett Square, PA. Contact Janet Anderson (302-323-0281 or Janet.Anderson@swe.org) for more information.

**Lehigh Valley Section**

- 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. Dr. Roth has a wide range of experience within the field of geotechnical engineering. Her research has focused on locating sinkholes using multi-electrode resistivity testing, a method of studying the soil and rock materials below the ground surface. She will be discussing her current work and her recent research project conducted as a Fulbright Scholar at the Geotechnical Institute of Norway in Oslo. Contact Kathy Kinsey (570-261-3884 or kinseyko@apci.com) for more details.

**New Jersey Section**

- Nov 3  “Girl Scouts Make Engineering Matter” at Schlumberger EMR Photoelectric, 20 Wallace Road, Princeton, NJ from 11:00 am to 4:00 pm. To earn the Making it Matter badge, the girls have to complete six of seven badge stations: Polymer Making, Polymer Variance, Acid vs. Base, Making a Doorbell, Ball Bearings Make It Easy, Supporting the Load, and Reverse Engineering. Volunteers are needed to set up, to assist with the “experiments,” to help move the girls from station to station, and to help get them all fed. SWE student and professional members, older girl scouts, and any one else who is interested can help. Part-day and full-day volunteers are welcome. Contact Verna Lomax (609-897-8544, lomax@princeton.wireline.slb.com) for more information.

**Region E Student Conference - Reaching for the Stars - Final Notice**

The Region E (Mid-Atlantic) Student Conference is being hosted by Cornell University on November 16-18 in Ithaca, NY. If you are interested in attending, please contact Cindy Winoto (cww5@cornell.edu) or Angel Hill (aeh16@cornell.edu) as soon as possible. Additional information on the Conference agenda and opportunities for company sponsorship may be found on the SWE-NJ web site www.sindsornet.com/njswe in the upcoming meetings section. SWE professional members should contact the hotel directly to make reservations. Information for hotels in the area is given below.

- Holiday Inn-Ithaca, 222 South Cayuga St., Ithaca, NY 14850, Phone: 607-272-1000
- Clarion University Hotel, One Sheraton Drive, Ithaca, NY 14850, Phone: 607-257-2000
- Ramada Inn Airport & Conference Center, 2310 North Triphammer Rd, Ithaca, NY 14850, Phone: 1-888-298-2054
- Statler Hotel, Cornell University, Ithaca, NY 14853, Phone: 1-800-541-2501

**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); 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 include 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. Here is an excerpt of some of the Fellows’ advice for sanity and success - Pearls of Wisdom from our SWE Fellows.

Families are significant and can help to keep one grounded, teaching patience and tolerance.

We are human and may make mistakes.

“Superwoman occasionally trips on her cape.”

Judie Forbes
SWE Outlook
November 2001
Society of Women Engineers - Philadelphia Section Newsletter

Professional Development News

SWE Professional Development Initiatives
Connect with other SWE members with similar issues and concerns via a series of moderated conference calls on selected topics. The calls begin at 7 pm Eastern time (6 Central / 5 Mountain / 4 Pacific). To join in, dial 1-305-503-1852. The extension number for the calls is 819.

The first discussions began in October. The last topic for this initial round of discussions will be Recruiter Chat on November 6th. For more information, please contact Diane Peters, Professional Development Chair, at diane.peters@swe.org

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@swe.org to get on the list.

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

Global Alliance News

from WiSEpress, University of Washington, Fall 2001

The Global Alliance for Diversifying the Science and Engineering Workforce is a collaborative initiative of the American Association for the Advancement of Science (AAAS), Women in Engineering Programs & Advocates Network (WEPAN), and the Association for Women in Science (AWIS). the primary goal of this initiative is to support efforts to diversify the global engineering and science workforce. This past summer, the Global Alliance has continued its work with its partners in Sweden, Mali, Nigeria, and Egypt.

The Global Alliance, with sponsorship by the National Science Foundation, is developing a two-day working session with corporate, government, and higher education representatives in Sweden and the United States. Both nations have been progressive in implementing policies to advance women in the technological workforce, but they have reached a plateau where little progress has been seen in the past few years. These representatives will meet in February 2002 at the annual AAAS conference in Boston to discuss ways to improve the situation for both nations.

Another project of the Global Alliance is research on the challenges for women in science and engineering in Mali, Nigeria, and Egypt. Interim research indicates that women in these three African nations face similar barriers in employment, although their educational experiences vary. Research findings will be posted on the Global Alliance web site at www.globalallianceancesmet.org.

Job Bank

Comcast Cable is recruiting for three engineering positions at their Philadelphia Headquarters: Digital Video Systems and Support Engineer; Manager, Digital Platform Engineering; and Senior Director, Network Operations. Contact Mary Pennington, Recruiting Manager, 215-981-7783, Mary_Pennington@cable.comcast.com.

Distance Learning
Top 10 eSchools
from Modern Maturity, July/August 2110
compiled by Nancy Stevenson

Here are some distance learning sources to check out if you are interested in continuing or upgrading your education through independent study at home. Degree programs may be available at some schools.

- California Virtual Campus
  www.cvc.edu
  This coalition of California colleges and universities offers 2000-plus on-line courses.

- Indiana University
  www.indiana.edu/iude
  Flexible general studies program for multidisciplinary degree.

- Pennsylvania State University
  www.outreach.psu.edu
  Each online student is assigned an advisor; half-off tuition for seniors from PA.

- Rochester Institute of Technology
distancelearning.rit.edu
  Third-largest online degree provider in the US; emphasis on science and technology.

- University of California at Berkeley
  learn.berkeley.edu
  Stellar academic reputation and relatively low cost.

- University of Maryland University College
  www.umuc.edu/distance
  Strong behavioral science and communications programs.

- University of Pennsylvania
  www.upenn.edu
  Excellent array of liberal arts courses, plus engineering, midwifery—even medicine.

- University of Washington
  www.outreach.washington.edu/dl
  Innovative course design; strong support of on-line students.

- University of Wisconsin
  www1.uwex.edu
  More than 150 on-line courses, including engineering and business.

- Western Governors University
  www.wgu.edu
  Program awards college credit for life experience.
SWE Philadelphia Section Newsletter
November 2001

Business Dressing from Corporate to Casual

Thursday, November 15, 2001
6:00 pm
Radisson Hotel - Conestoga Room
1160 First Avenue
King of Prussia, PA

RSVP to Carole Stowell by November 9, 2001

Newsletter copying and distribution is underwritten by a grant from Lockheed Martin Management and Data Systems.

Thank you!