



Philadelphia Section Newsletter

Society of Women Engineers

December 2000 - January 2001

Vol FY01.4

President's Letter

Inside this Issue

- 1 President's Letter
 - 2 Calendar of Events
Announcements
Phila Section Web Site Update
Region E-F Conference
Engineers' Club Tours and Courses
New Section Brochure
 - 3 February Events
Tour of the First Union Center
Sub-Section Meetings
Bucks County
South Jersey
Engineering Mini-Camp
Girl Scout Cadette Career Day
Engineers' Week Events
 - 4 Nov-Dec-Jan Highlights
Sub-Section Meeting
South Central PA
Joint Meeting with SAME
Executive Committee Meeting
Future City Competition
Continuing Development News
 - 5 Engineering Mini-Camp
Member News
New Section Members
New Arrival
Job Bank Postings
 - 6 Corporate Corner
Region News
 - 7 Officers and Committee Heads
- Enclosures
Engineers' Week Flyer
Updated Section Brochure

Happy 2001 from the SWE Philadelphia President!

I hope everyone has recovered from a busy holiday season! We have some new things planned for the second half of the SWE year. There will be a behind-the-scenes tour at the First Union Center at 5:00 PM on February 13th. We're looking at doing another tour with our members in the Harrisburg area (we're looking for suggestions, so if you have any, please contact Carole SDL, see page 7 for contact information). We're also looking to get some of our corporate sponsors more involved and sponsorship of a meeting in March.

Widener University is hosting the Engineering Mini-Camp for high school girls on February 17th from 9:00 AM to 4:00 PM. Volunteers are needed to help with labs and you don't need to be there the whole day (see page 5 for more details).

Lockheed Martin- Moores town has contacted me about encouraging more of their employees to join SWE. If anyone works at Moores town or in South Jersey and would like to help out, please contact either me or Maggie Schwartz (see page 7 for contact information).

We're continuing the Sub-Section meetings to provide opportunities for members to network in local areas throughout the Section. The Montgomery County Sub-Section is doing well with six "regulars" who show up at Bertucci's in the Plymouth Meeting Shopping Center. The new South Central PA Sub-Section is actively trying to grow the membership in the York-Harrisburg-Lancaster area with the goal of establishing a new SWE Section; eight members attended the initial meeting in November. Another new Sub-Section is being started in the South Jersey area. Currently there are also Sub-Section meetings for Chester/Delaware County, Bucks County, and Center City areas of our Section. If there's not a Sub-Section near you, feel free to start one and send the information to me for advertising. I know there's been some interest in starting one in the Western Montgomery County/Berks County area as well as splitting up Bucks into Upper and Lower Sub-Sections.

We're also looking at having a Section picnic in June for members and their families. Again, please let me know if you have any suggestions or would like to volunteer.

You can find the latest information on events on our web site: <http://www.libertynet.org/sweps>. Also feel free to call or e-mail me for information, comments, questions or suggestions (see page 7 for contact information). I look forward to hearing from you.

Lisa Colosimo

SWE Philadelphia Section Newsletter
December 2000 - January 2001

Date	Event	Location
Jan 27	Future City Competition	Drexel University
Feb 8	Bucks County Sub-Section Meeting	Guiseppe's, Richboro
Feb 10	Cadette Girl Scout Career Guidance Event: "Science through Sports"	Franklin Institute Philadelphia
Feb 13	Technical Tour - First Union Center	Philadelphia
Feb 16	Engineers' Week Proclamation Luncheon	Union League, Philadelphia
Feb 17	Engineering Mini-Camp	Widener University
Feb 21	Young Engineer of the Year Dinner	Williamson's, City Line Avenue
Feb 22	Science and Math Teachers Workshop	Widener University
Feb 22	Southern NJ Sub-Section Meeting	Mt. Laurel
Feb 24	Engineers Week Banquet	Widener University
Mar 8	New Castle County Science Fair	DE Technical & Community College
Mar	Section Meeting with a Corporate Sponsor	
Mar 17	Lehigh Valley Science Fair	Lehigh University
Mar 24-25	Joint Region E-F Meeting	Hartford, CT
Apr 11	Delaware Valley Science Fairs	Fort Washington Expo Center
Apr	Applications due for Section Scholarships Awards Banquet	
Apr 26-29	National Board of Directors Meeting	Wilmington, DE
May & June	Certificate of Merit Presentations	
June	2nd Annual Golf Outing	
June	Technical Tour	Lancaster-Harrisburg-York area
June	Election of New Officers Sub-Section Meetings	
June 26-30	National Conference	Denver, CO

Announcements

Note that the new address form for the **Philadelphia Section Web Site** is <http://www.libertynet.org/sweps>. In addition, we now have a Section e-mail address, phila_info@swe.org, that provides a central contact point for Section Officers and Committee Heads and a place asking questions concerning Section activities. Check us out!!

Region E-F Meeting: This year Region E will be joining Region F at their Region Conference on March 24-25 in Hartford, CT. A Region E Meeting will be held on Sunday, March 25th.

For information on **Technical Tours** and **Spring 2001 Courses** offered by the Engineers' Club of Philadelphia, visit <http://www.engclub.org>, E-mail to info@engclub.org, or contact Tom Payne at 215-985-5701.

SWE Philadelphia Section Newsletter
December 2000 - January 2001

The updated **Section Brochure for FY 2000-2001** has been printed. A copy is enclosed with this newsletter.

FEBRUARY EVENTS

Sub-Section Meetings

Bucks County

Date: Thursday, February 8, 2001
Time: 6:00 PM
Place: Giuseppe's Pizza & Restaurant
990 Second Street Pike
Richboro
RSVP: to Susan Sciaratta
by February 5
Phone: 865-616-8166
215-579-1377
E-Mail: ssciarratta@golder.com

South Jersey

Date: Thursday, February 22, 2001
Time: 6:00 PM
Place: Bennigan's in Mt. Laurel, NJ
Route 73 South at NJ Turnpike
RSVP to Susan Sciaratta
by February 19
Phone: 865-616-8166
215-579-1377
E-Mail: ssciarratta@golder.com

Engineers' Week Events

See enclosed brochure for details

- **Future City Competition** for middle school students, Saturday, Jan 27 at Drexel University
- **Proclamation Luncheon** to announce the Engineer of the Year and the Engineering Achievement Awards, Friday, Feb 16 at the Union League
- **Young Engineer of the Year Dinner**, Wednesday, Feb 21 at Williamson's, City Line Ave
- **Science and Math Teachers Workshop** on Thursday, Feb 22 at Widener University
- **Engineers' Week Banquet** on Saturday, Feb 24 at Widener University to recognize
 - Engineer of the Year
 - Outstanding Engineering Achievements
 - Young Engineer of the Year
 - Outstanding Math and Science Teachers
 - Undergraduate Student Papers
 - Outstanding High School Student
 - Future City Competition Winners
 - MATHCOUNTS Winners (2000)

Technical Tour

Behind the Scenes at the First Union Center

Join us on a "Behind-the-Scenes" tour of the First Union Center! We've arranged for a personal guided tour where we can visit and explore the private luxury seating levels, the press box, Arena Vision studio control room, Comcast SportsNet, and the locker rooms of the Sixers and Flyers. Family and friends are invited.

After the tour we will meet at Celebre's Restaurant on Packer Avenue for a casual dinner of pizza or pasta.

Date: Tuesday, February 13, 2001
Time: 5:00 PM
Place: First Union Center

Broad Street and Pattison Avenue, Philadelphia
Tour begins at the Executive Entrance on the Broad Street side

Cost: \$5.00 per person

RSVP: to Carole SDL by February 9
Phone: 610-531-5320
E-mail: carole.n.stowell@lmco.com,

Leave your name, e-mail address, or phone number so we can inform you of last minute details

For specific tour questions please contact

Jennifer Wetzel, SWE Philadelphia Vice President

Phone: 215-573-3935

E-mail: jwetzel@pobox.upenn.edu

Engineering Mini-Camp

The Society of Women Engineers and Widener University will run an Engineering Mini-Camp for high school girls on Saturday, February 17, 2001 from 9 AM to 4 PM at the Widener University Main Campus. Volunteers are needed to work with the girls during the hands-on lab activities. See page 5 for more details and contact information.

Girl Scout Cadette Career Day

Date: Saturday, February 10, 2001
Time: 7 to 9 PM
Place: Franklin Institute, 222 N. 20th St., Philadelphia

Over 500 Girl Scout Cadettes are expected to attend this year's Career Day. Volunteers are needed to provide information on careers in science and engineering. The setting is informal, with the girls walking around to see exhibits related to the theme for this year, "Science through Sports." Speakers chat with small groups of girls about the various scientific and engineering careers associated with the subject addressed in the exhibit. There is a particular need for speakers who can address scientific and engineering aspects of careers related to:

sports medicine	materials used for sports
aviation	electricity
use of geometry and mathematics	

The scouts get to "camp"/sleep over in the museum. The Girl Scouts may be able to offer help with travel, parking etc. For more information please phone Diana Brooks at 215-448-1133 or e-mail campin@fi.edu.

November-December-January Highlights

Joint Meeting with SAME

by Susan Sciaratta

On November 8, 2000, SWE-Philadelphia held a joint meeting with the Society of American Military Engineers (SAME) at the Harbour League Club in Camden, New Jersey. We met many folks from industry, consulting, and government.

The guest speakers from Burns Engineering, Inc. gave a very interesting presentation of the design and construction of the new U.S. Airways International Terminal at Philadelphia International Airport. It was particularly interesting to hear about all of the different engineering firms and other organizations involved in the design, construction, and management of the project, as well as the many physical and administrative obstacles that had to be overcome (e.g., moving underground lines) in order to commence construction. The terminal is state-of-the-art in terms of design and function, and is currently under construction, being visible at the entrance into the airport from I-95. Philadelphia will become the U.S. hub for international flights for US Airways.

South Central PA Sub-Section Meeting

by Jean Panos

The first meeting of the new South Central PA Sub-Section was held on November 16, 2000 at the El Serrano Restaurant in York. The eight attendees included members from the York, Lancaster, and Harrisburg areas of the Philadelphia Section.

The top priority of this group is to grow so that they can establish their own SWE Section. Because the area is home to mostly small companies, there are few networks of engineers to tap for potential new SWE members. Ideas for identifying new people include: contacting college alumni organizations in the area; contacting Hershey Foods and any other large employers in the area; posting announcements in the Philadelphia Section Newsletter; and contacting the PSPE/Lincoln Chapter.

Convenient meeting places on the west side of Lancaster, the north/east side of York, or the south/east side of Harrisburg are being sought. The next meetings are planned for March and June. To obtain more information, contact Jean Panos at jean.panos@swe.org.

Section Executive Committee Meeting

Philadelphia Section officers, committee heads, and other interested members met at the First Consulting Group office building in Wayne, PA on Sunday, January 7, 2001 to discuss plans for the remainder of this SWE Fiscal Year. In addition to the activities mentioned in the *President's Letter*, we are forging ahead with on-going programs such as the Engineer Mini-Camp developed last year under a grant from SWE Headquarters, awarding college scholarships to upperclass and graduate engineering students at local colleges, recognizing the achievements of outstanding high school math and science students through our Certificates of Merit, and providing Special Awards at the Delaware Valley Science Fairs and the Future City Competition. We also plan to have our Second Annual Golf Outing and possibly a picnic in June. We are still trying to fill vacant Committee Head positions and welcome all volunteers.

Future City Competition 2001

The Philadelphia Region Future City Competition 2001 will be held on Saturday, January 28, 2001 at the Great Hall on the campus of Drexel University. Philadelphia Section SWE members serve as competition judges and administrators. The Section also provides a \$200 Special Award for the project that best addresses engineering aspects of the design. Results will be announced in the next Section Newsletter.

Continuing Development News

Several **Professional Development** resources are available to sections and individual members through SWE Headquarters. Many of these resources can be accessed through the SWE home page at <http://www.swe.org>. A library of 18 books and 27 videotapes is available for the use of SWE members. Individuals may check them out for their own personal use. Details of the check-out procedure and descriptions of the books and tapes are available at the web site.

Clemson University's 624th **Conference on Professional Development for Women** will be held at the Adam's Mark Hotel in Philadelphia on Thursday, April 26, 2001. Contact Kay James at 864-656-2200 for more information.

Engineering Mini-Camp

The Society of Women Engineers and Widener University will run an Engineering Mini-Camp for 9th to 12 grade girls at the Widener University Main Campus on Saturday, February 17, 2001 (snow date is February 24). The camp will run from 9 AM to 4 PM and will include breakfast and lunch. About 100 girls are expected to attend.

Eight lab activities will be running concurrently. Each lab will be given four times throughout the day so that the girls will each get to do four of the eight lab activities. Volunteer engineers, students, and/or teachers will work with the girls during the lab sessions.

Potential lab activities for this year's camp are listed below. Ideas and suggestions for other labs are welcome.

Robotics / Computer Engineering - programming pre-assembled Lego robots to maneuver through an obstacle course

Mechanical Design - making a roller coaster with pipe insulation, duct tape, and marbles

Mechanical / Electrical Design - using Legos to assemble powered cars

City Planning - using various pasta configurations to design a water distribution system

Aeronautics and Atmospheric Flight - constructing and flying paper airplanes

Structural Design - building a tower out of drinking straws and masking tape to withstand wind loads

Computer Simulation - using computer software to simulate operations of a chemical process plant

Reaction Kinetics - performing a variety of chemical engineering experiments

Signals Analysis - using oscilloscopes to look at wave-form variations.

Volunteers are still needed, especially for the roller coaster, Lego-powered cars, and oscilloscope activities. An all-day volunteer would get to do the same lab four times, while a half-day volunteer would do the lab two times. If you can't be there for the whole day, help could be used for just for the morning or afternoon shift. Ideally, the volunteer's career experience will be matched with the lab activity. To volunteer for one of the lab activities and/or to obtain additional information, please contact Vicki Brown at 610-499-4607 or Vicki.L.Brown@widener.edu.

MEMBER NEWS

New Members in our Section

We extend a warm welcome and look forward to meeting the following members who are new to the Philadelphia Section:

Barbara Loesch at Johnson & Johnson

Nina Rapak at L-3 Communications

Susan Hougendobler at the Naval Surface Warfare Center

Victoria Morgan at Lockheed Martin Management & Data

Systems

New Arrival

Congratulations to Deena Grattan on the birth of her new son John Paul. He was born on October 21, 2000 at 9:51 PM. He weighed in at 9 pounds and 7 ounces a length of 22 inches. Mom and baby are both doing well.

Job Bank Postings

Air Products is seeking a regional marketing specialist for UHP equipment (gas cabinets) for the eastern US and mid-Canada. For more information contact Lisa Walton at 610-530-0231, LMWALTON@aol.com.

CDI Corporation is looking for staff at various levels in civil, structural, mechanical, electrical, instrumentation, and HVAC. For more information contact Bob Helt at 215-282-8313.

CH2M HILL is looking for a business development leader, project manager, and project consultants. For more information, contact Louise Melchor at 215-563-4244 x439, lmelchor@dca.net.

Corporate Corner

Several activities are coming up for our corporate sponsors and members. A solicitation letter will be going out soon to past corporate sponsors, other corporate friends of SWE, as well as our local membership to request funds for our annual Scholarship Awards Program for female college students who are studying engineering or computer science. Our sponsors are also invited to attend the Scholarship Awards Banquet in April to meet the outstanding students and network with SWE members.

Discussions are underway with one of SWE's long-standing supporters, Lockheed-Martin M&DS, to

possibly provide a keynote speaker for the April banquet. Also, discussions are underway with our corporate members to host a technical tour at a local facility in March 2001; it is planned that SWE members will have a "behind-the-scenes" view of a manufacturing process or technology.

More information and details on these upcoming activities will be provided in next month's Newsletter. If your company would like to be more involved with SWE as a sponsor or member, please contact Susan Sciaratta by phone at 856-616-8166 (w) or by E-mail at ssciarratta@golder.com.

News from Around the Region

Lehigh Valley Section . . .

- The **Lehigh Valley Science and Engineering Fair** will be held on March 17th at the Rauch Field House at Lehigh University. SWE- Lehigh Valley provides Special Awards at this fair. Both regular and Special Awards judges are needed. For more information, contact Kathy Kinsey, Lehigh Valley Section President, at 610- 261-3884 or kinseyko@apci.com. You may also contact Bob Haines, the fair coordinator, at rah@insaco.com; use LVSF as the subject of your message.
- The Lehigh Valley Section and the Wilkes University Student Section are organizing a **tour of the Air Products Wilkes-Barre plant**. This tour is also the Section quarterly membership meeting for the winter. At the request of the students, the tour has been scheduled for a Saturday.
Date: February 10, 2001
Time: meet in Allentown at 8 AM, tour at 10 AM
RSVP: to Paula VanFossen (pvanfossen@pplweb.com, 610-395-9397) or to Kathy Kinsey (Kinseyko@apci.com, 610-261-3884)
- The **Pennsylvania Junior Academy of Science** is seeking judges for their annual math, science, and computer project fair. This organization promotes the appreciation of science, technology, and math in young people. The presentations will involve students of high school and junior high school age. The project fair will be held on Saturday, February 24, 2001 at the Easton Area High School in Easton, PA. If you can help or would like more information, contact Colleen Kulick, the SWE-Lehigh Valley Career Guidance Chair, at 610-777-5426 or Colleen.Kulick@parsons.com.

DelMar Peninsula Section . . .

- The 6th Annual **New Castle County Science Fair** will be held on March 8th at the Delaware Technical and Community College, Stanton Campus. Please contact Nora Lober at 302-777-3999 for more information.
- The DelMar Peninsula Section will host the **SWE Board of Directors Meeting** to be held April 26-29, 2001 in Wilmington, DE. More details will be provided as they become available.
- **DelMar Peninsula** has a **new website**: www.geocities.com/swedelmar. Their web site coordinator is Regina Bowie.

SWE Philadelphia Section
c/o The Engineers' Club of Philadelphia
215 South 16th Street Suite 36
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

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Behind the Scenes Tour of the First Union Center

Date: Tuesday, February 13, 2001
Time: 5:00 PM
Place: First Union Center, Broad St. and Pattison Ave., Philadelphia
RSVP: Carole SDL by February 9, 2001

Bucks County Sub-Section Meeting

Date: Thursday, February 8, 2001
Time: 6:00 PM
Place: Guiseppi's Pizza and Restaurant
990 Second Street Pike, Richboro, PA
RSVP: to Susan Sciarratta by February 5th

South Jersey Sub-Section Meeting

Date: Thursday, February 22, 2001
Time: 6:00 PM
Place: Bennigan's
Route 73 South & NJ Turnpike, Mt. Laurel, NJ
RSVP: to Susan Sciarratta by February 19th

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

Thank you!

The Society of Women Engineers and Widener University

***Engineering Camp
for GIRLS in Grades 9-12***

Saturday February 17, 2001

9 AM – 4 PM

Widener University Main Campus

Chester, PA

High school girls interested in science and math can explore engineering careers in a hands-on laboratory setting with women engineers from the Philadelphia section of the Society of Women Engineers and female engineering students from Widener University.

Schedule:

9:00 – 9:30	Check-in/Continental Breakfast
9:30 – 10:00	Welcome/Introductions
10:15 – 11:05	Laboratory Session #1
11:15 – 12:05	Laboratory Session #2
12:15 – 1:30	Lunch/Female Engineering Student Experience
1:40 - 2:30	Laboratory Session #3
2:40 - 3:30	Laboratory Session #4
3:30 - 4:00	Closing/Camp Evaluation

**For an application
or more information
please contact:**

**Dr. Vicki L. Brown
(610) 499-4042
engineering.girlscamp@widener.edu**

**Register On-Line at www2.widener.edu/~soengr/
Enrollment Limited So Apply Early!!**

Funded by the American Society of Mechanical Engineers