



Philadelphia Section Newsletter

Society of Women Engineers

August 2000

Vol FY01.1

Inside this Issue

- 1 President's Letter
- 2 Calendar
Announcements
- 3 FY 01 Planning Meeting
Robot Program
Time Capsule Contributions
- 4 National and Region News
- 5 FY 2000 in Review
- 6 ASHRE Training Courses
Technical Publishing Help
Online Continuing
Education Courses
- 7 Officers and Committee
Heads

PAST PRESIDENT'S LETTER

SWE Members and Friends -

It is with mixed feelings that I bid farewell to you as the President of the Philadelphia Section. I have immensely enjoyed leading and serving our Section for the last three years as Vice President and then President. I have sharpened my leadership skills and developed close working relationships and friendships with many of you. I'm also relieved, not only in giving up such a large responsibility, but in passing the torch to a very able and talented cadre of SWE officers, including:

President - Lisa Colosimo
Vice President - Jennifer Wetzel
Secretary - Heather Bernardin
Treasurer - Barbara Faust
Section Representative - Maggie Schwartz

This group of people combines many years of SWE leadership experience and strong organizational skills, and I am confident that these women will achieve great success in the coming year.

Where do I plan to go from here? Not far! My vision for the next couple of years involves "Partnerships" in the following areas: community outreach and corporate involvement. We have started to build bridges with our student sections, trade groups, and organizations such as the Girl Scouts.

I would like to strengthen these existing relationships and initiate new ones. Developing corporate partnerships with SWE is integral to our success, in part because it provides resources and visibility for SWE on a large scale. SWE also has much to offer to local companies and corporations, so these partnerships are indeed of mutual benefit.

Finally, many thanks to you all for your support during my tenure as President. As most of you know, I initially "inherited" the position with little warning. But your assistance and advice helped me grow into the position and be able to serve our Section successfully. Thanks also to my employer, Golder Associates Inc., for allowing me to devote company time and resources to my SWE endeavors. Thanks again, and I look forward to a fantastic new fiscal year.

Sincerely,
Susan Sciaratta, P.E.

**SWE Philadelphia Section
FY 01 Calendar of Events**



**SWE Philadelphia Section Newsletter
August 2000**

Date	Event	Location
August 20	Planning Meeting	Wayne, PA
September	General Meeting	
October	Sub-Section Meetings	Various
October 7	Girl Scout Junior Jamboree	Camp Tohickanee
November	General Meeting	
December	Sub-Section Meetings	Various
January	General Meeting	
February	Future City Competition	
February	Engineers' Week Activities	
March	Sub-Section Meetings	
April	Region E Meeting	
April	Science Fair Judging	
April	Applications due for Section Scholarships	Scholarship Chair
April	Awards Banquet	
May	2nd Annual Golf Outing	
May & June	Certificate of Merit Presentations	Various
June	Election of New Officers	Ballot Teller
June	National Conference	Detroit

Announcements

The **Grace Hopper Celebration of Women in Computing Conference** will be held on 14-16 September 2000 at the Sheraton Hyannis in Cape Cod, MA. Check the national SWE website at www.swe.org for more information.

Advance Notice: the **12th International Conference of Women Engineers and Scientists (ICWES)** will be held in Toronto on 27-31 July 2002. Contact dormerellis@home.com for more details.

New arrival: Congratulations to Heather Bernardin on the birth of son John Baptiste Bernardin on July 25th. Vital statistics: weight 9 lb, 7 1/2 oz; length 21 inches. Mom, dad, and baby are all doing well.

The Delaware Valley Engineers' Week Council and the Philadelphia Engineers' Club are sponsoring the first annual **E-Week Golf Outing** on Friday, 6 October 2000. Location: Walnut Lane Golf Club in Philadelphia
Format: 5-person modified scramble
Cost: \$70 per person or \$325 per fivesome
Sponsorships ranging from \$75 to \$300 are also available. Fee includes cart, breakfast, lunch, snack, and prizes. Contact Susan Sciarratta at 856-616-8166 or susan_sciarratta@golder.com for more information.

The American Society of Heating and Refrigeration Engineers (ASHRE) is offering **training classes in HVAC System Design and Plumbing Design**. See page 6 for more details.

FY 2001 Planning Meeting

SWE Philadelphia Section Newsletter August 2000

A planning meeting to map out section goals, activities, meeting topics and locations for FY 01 will start at noon on Sunday, August 20th, at 575 E. Swedesford Road in Wayne, PA. Contact Lisa Colosimo directly to obtain directions to the facility and to order lunch.

All members are welcome to attend and to provide input on the types of activities of interest to them. Share your ideas in person or forward them to Lisa Colosimo so your preferences may be included in the planning discussions.

Robot Program

In May, Susan Sciarratta met with a team of all-female students and their teacher at Mt. St. Joseph Academy in Flourtown, PA. This year the students entered a national robot competition. The team designed and constructed a robot ("Patty") with minimal outside technical guidance or support. The students would like to participate in future competitions but the expense and technical expertise needed requires them to seek outside support in the following areas:

1. Mechanical Engineer with experience in design/construction;
2. Electrical Engineer with experience in electro-mechanical systems and remote control;
3. Software person with experience in Parallax PBasic;
4. Someone who can teach or advise on Project Management basics;
5. CAD support, particularly with Autodesk's Inventor and 3-D Studio Max software;
6. Marketing/finance support or guidance;
7. Someone with experience in pneumatics;
8. People to teach short seminars in design/construction issues; and,
9. Donations of hand tools, drill press, band saw, cordless drills, table saw, grinder, etc.

Interested folks are invited to visit the school and the students/faculty involved in this effort. Susan was very impressed with the students' efforts and enthusiasm. Clearly, this experience has taught them much about engineering including mechanics, motors, control systems, computers, and design, not to mention a source of inspiration for engineering careers. This is the kind of activity that we in the engineering community should embrace and support, and we should can assist the students to the extent possible. If you are interested, contact Bob Foell or Sister Karen Dietrich directly at Mt. St. Joseph Academy, 215-233-3177 for more details.

Time Capsule Contributions

Philadelphia Section memorabilia contributed to the SWE time capsule includes the posters from the 1950's that were displayed at the Section Awards Banquet and 50th Anniversary Celebration in April, copies of the Section newsletter with the SWE history articles written by Alma Forman, Doris McNulty, and Ross Forman, and a

hand-written post-it note from Barb Faust. The capsule also contains an engineer's slide rule, a hand-held calculator, samples of current career guidance publications, and representative handouts from exhibitors. The capsule was sealed after the National Conference and is to be opened in 2050.

SWE National and Region News

SWE FY01 Election Results

President-Elect: Shelley A. Wolff, P.E.
Vice Presidents: Michele Fitzpatrick, Alma U. Martinez Fallon, Rachel A. B. McQuillen, P.E.
Secretary: Violettee (Vi) Brown
Treasurer: Katherine J. Kent
Board of Trustees: Dorothy P. Morris, Martha Sloan
Directors: Region D- Judith A. Kersey; Region F- Hilary J. Eichler;
Region H- Silvia Karlsson; Region J- Judith A. Garzolini

CSR Strategic Direction Team

The FY00 Council of Section Representatives passed a motion to form a team of section representatives who are to develop a recommendation to the FY01 CSR about how the CSR could more effectively use their strengths, such as extensive historical knowledge and region-wide representation, to better address the strategic issues of importance to our members and to define the future direction of our Society. This recommendation will address: the role of the CSR; subsequent modifications to the Society bylaws, processes, and structure; and an implementation plan with a timeline.

After the 30 June 2000 CSR meeting, several representatives volunteered to serve on this team. The purpose of this memo is to identify other members who wish to be included on the team. The team needs to remain small enough to be able to complete the task in the next nine months, but large enough to represent different points of view and address numerous aspects; a team of 10 to 12 members is preferred.

Duties of team members would include participating in teleconferences, preparing for and conducting a discussion session at your regional conference, developing written alternatives and recommendations and probably attending one or two team meetings (possibly Nov '00 and Feb '01, specific dates and locations unknown at this time). Experience in previous CSR meetings and knowledge of the Society's strategic plan are necessary to be an effective team member.

The FY01 Board of Directors will be continuing with their evaluation process, started in FY99, as to how the roles and responsibilities of the officers, directors and committee chairs, as well as headquarters staff should change to be more effective in the future.

Please contact Shelley Wolff at 913-527-2482 if you are interested in participating on this team.

SWE Region E Roster Updates

24 July 2000

New Region E Secretary:
Kristi Perri, kperri@ch1m.com

New Region E Newsletter Editor:
Bonnie Coleman Gould, Epgould@aol.com

The Region still needs a Student Coordinator. The Multi-Cultural Rep is ready for a change. The Career Guidance and the Family Issues Reps are willing to let someone else take the lead. Contact Holly Ross, Region E Director, at RossHR@navair.navy.mil if you are interested in any of these positions.

SWE Banner In Orbit

Through the efforts of the Space Coast Section, a SWE 50th Anniversary banner was taken into orbit on the Space Shuttle Atlantis that lifted off on 19 May 2000. This banner was presented to SWE during the National Conference in June.

FY 2000 in Review

The SWE Philadelphia Section had an active year, with Vice President Deena Grattan and Special Projects Chair Lisa Colosimo stepping in to keep things on track while President Susan Sciaratta was on field assignment in State College for about four months. As in the two previous years, membership meetings alternated between full-section meetings and localized sub-section meetings (Montco, Bucks, Center City).

Full-section meetings included:

- a general meeting on 8 September 1999 to provide an **overview of programs** to be undertaken during the year and announce plans for celebrating the 50th Anniversary of SWE and of the Philadelphia Section;
- a **technical presentation** on the traffic calming techniques used to control speed and traffic through residential and business areas by Greg Richardson, PE of Traffic Planning and Design on 19 January 2000;
- a **presentation of wardrobe selection criteria** for clothing suitable for the office, lab/floor work, and field work by consultants from Macy's on 17 February 2000; and
- the **Awards Banquet and 50th Anniversary Celebration** on 18 April 2000 to honor recipients of the five \$1000 college scholarships awarded by the section, the contributions of our corporate sponsors, and the section members who joined SWE in the 1950's. Charter Member Alma Forman recounted SWE's founding days in a skit format.

Three new programs that had been talked about for several years were initiated.

- An **Engineering Mini-Camp** for high school girls was developed by Vicki Brown with financial assistance of a SWE Program Development Grant. This one-day camp, which held at Widener University on 12 February 2000, provided 88 girls (the maximum number that could be accommodated in the available facilities) the opportunity to have hands-on engineering laboratory experience and to converse at length with SWE Philadelphia and DelMar Peninsula Section members and Widener engineering students and faculty.
- A **Continuing Development Seminar** sponsored by a grant from DuPont (Texas), held at the Concordville Inn and Conference Center on 4 March 2000, and co-hosted with the DelMar Peninsula Section provided members with insight into leadership styles, effective ways to use persuasion in presentations, skills needed for management and a self-evaluation to determine weakspots in their management skills. Frann Shore was the Philadelphia coordinator.
- A **Beginner's Golf Outing**, with clinic, on 3 May 2000 provided the opportunity to learn the basics of golf and golf etiquette. Jennifer Brennan organized this new event.

On-going projects included:

- **College Scholarship Program** - five \$1000 awards were made to college students in local engineering schools;
- Philadelphia area **Future City Competition** on 29 January 2000 - Susan Best served as Judging Coordinator and Jennifer Wetzel as Volunteer Coordinator for the FCC Steering Committee, other members served as mentors, judges, or volunteer help as needed.

- **Science Fair Judging** - Tammy Yost, Maggie Schwartz, and Barbara Faust of Philadelphia Section and Lisa Walton of Lehigh Valley Section were Special Awards Judges at the Delaware Valley Science Fairs on 5 April 2000; 920 sixth through twelfth grade students worked on projects for the fairs. In addition to awarding books and certificates for 10 First Place and Honorable Mention projects, a \$500 scholarship was awarded to a high school senior who is entering college as an engineering major. Barbara Faust and several Lehigh Valley SWE members served as judges at the Lehigh Valley Science Fair on March 25, 2000.
- **Certificate of Merit Program** - Certificates of Merit were awarded to 232 high school girls from 79 schools in the five-county greater Philadelphia area. Lisa Colosimo, Mary Ann Skeehan, Andrea Morris, Preash'a Brittingham, Frann Shore, Jennifer Coriale, Jennifer Scholtter, and Barbara Faust participated in various school award programs to make the presentations.
- **Girl Scout Programs** - Four sessions of an engineering workshop on Water Distribution Systems were presented by Susan Sciaratta, Carole Stowell, and Barbara Faust at the Junior Jamboree held on 2 October 1999 at Camp Tohikanee for scouts from the Freedom Valley Girl Scout Council; 12 to 16 girls attended each session.

Other activities for the year included:

- Participation in the **DelMar Peninsula Charter Presentation** banquet on 24 September 1999.
- Participation in the **Region E Student Conference** held at Drexel University. Susan Sciaratta, Deena Grattan, and Jennifer Wetzel staffed a SWE table to talk to students as they learned about various professional and technical societies during the networking night on 5 November 1999. Susan Sciaratta also ran several workshop sessions on the PE license while Suzanne Chiavari, Deena Grattan, Jennifer Wetzel, Lisa Colosimo, Heather Bernardin, and Frann Shore gave panel discussions on "What Can I Do With a Professional SWE Membership?" on 6 November. Several other members also attended the Region E Meeting that was held during the student conference.
- Participation in the **Region E Conference** sessions and Member Meeting in Somerset, NJ on 31 March through 2 April 2000.
- Planning for the **FY 2004 National Conference**. As a member of the FY 2004 National Conference Core Committee, Susan Best represented the Section at the national Conference Management Committee meetings. Unfortunately, changes in national Conference dates and format and the unavailability of the Philadelphia Convention Center for dates other than those secured two years ago have resulted in withdrawal of the Philadelphia-Lehigh Valley-DelMar Peninsula-New Jersey Section award to co-host the 2004 National Conference.
- Panel discussion on **Business Etiquette in the Workplace** by Jennifer Coriale, Jennifer Scholtter, Amy Ward Kozer, and Barb Faust at the Widener Student Section meeting on 25 April.

ASHRE (American Society of Heating and Refrigeration Engineers) is offering the following training classes:

Training Classes Offered by ASHRE

- **Basic HVAC System Design:** Tuesdays and Thursdays starting September 5 and continuing through April
Cost: \$800 Contact: Gil Schonour
- **Advanced HVAC System Design:** Wednesdays starting September 6
Cost: \$850 Contact: Robert E. Nutting
HVAC class location: Sheet Metals Workings Training Center, 1301 S. Columbus Blvd, Philadelphia
- **Plumbing Design School (Plumbing 1 and 2)** starting September 18
Cost: \$395 Contact: Robert E. Nutting
Classes at Community College of Philadelphia, Spring Garden Campus

ASHRE is looking for instructors. If interested, send your resume to Gil Schonour.

ASHRE Contact Information:

Gil Schonour, PE	Robert E. Nutting
EMS Engineering	Rydal Park - Apt B164
5 S. Easton Road	1525 Fairway
Glenside, PA 19038	Rydal, PA 19046-1664
Phone: 215-572-6656	Phone: 215-885-0444
FAX: 215-572-1060	
e-mail: emsengin@early.com	

Technical Publishing Help

Do you have any specific "Pet" project that you would like to write about? Susan Sciarratta has submitted information from Roger Woodson, an author of over 60 books. His company, Lone Wolf Enterprises, Ltd., is a book producer for major publishers such as McGraw-Hill and John Wiley & Sons. Both of these publishers are interested in books written by architects, interior designers, engineers, and similar experts.

The publisher most likely to be the best fit for your work is determined based on a detailed bio of your experience and credentials. The bio is submitted to the Senior Editor at the publisher for consideration. Sometimes the publisher requests a certain topic. Authors often provide their own ideas for books.

As a producer, the company finds authors, helps authors in their proposal stage, manages the writing process, and turns the raw manuscript into a final, camera-ready publishing package for the publisher. Visit the web site <http://www.lonewolfent.net> for more information.

Authors are generally paid an advance against royalties and then paid royalties twice a year. Lone Wolf retains 15% of the advance/royalty income for books generated by Lone Wolf. If an author provides an idea that sells, the retainage drops to 10%.

Woodson will be happy to talk with you, by phone or email, to answer your questions. His phone number in Maine is 207-476-5062 (Eastern Standard Time zone).

Continuing Education Courses

Online courses that fulfill continuing professional education (CPE) requirements are available through KeepSmart Engineering, formerly Virtual Engineering Corporation (VEC). KeepSmart has partnered with the National Society of Professional Engineers, the American Consulting Engineers Council and the American Society of Civil Engineers through the Alliance for Continuing Education for Engineers (ACE2) to develop a library of online engineering and management courses.

Courses are available in the following areas:

- Civil Engineering - Human Resources
- Communications - Licensure Exam Preparation
- Ethics/Legal Issues - Management
- Finance - Marketing

For additional information on KeepSmart Engineering, visit their web site at www.KeepSmart.com or call 1-800-596-8864. The company had an exhibit booth at the National Conference in Washington, D.C.

Food for Thought

The only place you find success before work is in the dictionary. (May V. Smith)

The ten most powerful two-letter words: IF IT IS TO BE, IT IS UP TO ME. (Author Unknown)

SWE Philadelphia Section
c/o The Engineers' Club of Philadelphia
215 South 16th Street Suite 36
Philadelphia, PA 19102

ADDRESS CORRECTION REQUESTED

Visit our webpage at: <http://www.libertynet.org/~sweps>

SWE Philadelphia Section
August 2000 Newsletter

Planning Meeting for FY 01 Activities
20 August 2000
First Consulting Group Campus in Wayne, PA

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

Thank you!