



SWE Outlook

September/October 2005

Inside this Issue

2 SWE Calendar

3 Announcements

Women in Engineering Day
Web seminar
Engineers needed after Katrina
Del. Valley Engineer
National Engineers Week
Widener graduate programs

4 Section News

September Meeting
October Meeting
2006 Region E Conference

5 Upcoming Events Around the Region

SWE DelMar Peninsula
Girls Engineering Day
Breast Cancer Walk
Sally Ride Science Festival

6 National News

2005 SWE National Conference

7 Professional Development

The Engineers' Club of Philadelphia
Fall '05 Courses
Fall '05 Engineering Tours

8 FY05 Contact List

We will gladly include news items, photos, and activities from SWE Student Sections and nearby SWE Sections in SWE Outlook. Announcements for other organizations will be included as time and space permit. Please send inputs to newsletter editors azahari@rohmmaas.com or jurica_lee@yahoo.com

We are updating our SWE Outlook newsletter distribution list and also looking for ways to reduce distribution costs. Should you wish to receive SWE Outlook by e-mail instead of US mail, please forward your request to Heather Bernardin at habernardin@yahoo.com or Carole Stowell at carole.n.stowell@lmco.com.

The **SWE MISSION** is to:

- 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; and
- demonstrate the value of diversity

President's Corner

Welcome back to another year of SWE. The board has an exciting year planned. Once again the first meeting of the year will be our, now annual, Kick-Off Social and welcome to new members. This event has become one of our most popular ones of the year. I encourage members, new and old, to attend and bring a guest. It is a great way to meet other members, make contacts and learn more about the Philadelphia section of SWE and the events we hold. We will also have information about our committees.

As you will see in the officer and committee chair section most of the chair positions have been filled this year! However, these committees still have needs for volunteers. Even if you only have a little bit of time available, take a look at the committees and contact the chair listed to find out how you can get involved. If you are interested in chairing one of the open committees, please contact me. This year we have an extra committee, the Region E conference chaired by Jennifer Garner.

Jennifer and the conference committee have been hard at work on our bid for this year's region E conference. We are getting a lot of support from members, student sections, and companies with this undertaking. I want to personally thank all those who have been working behind the scenes on this bid. If you are interested in helping out with the conference planning, please contact Jennifer Garner.

I hope to see many of you at the September social or one of our upcoming meetings. This year we will have several professional development, social, and technical meetings. We will also continue with many of the outreach activities such as: scholarship, Widener engineering mini-camp and girl scouts.

Heather Bernardin

Reminder

- The last day to receive the early bird registration discount for the SWE National Conference is Sept. 15 '05. [Register](#) soon to receive the discount. (Page 6)
- RSVP for October meeting at Rohm and Haas by October 4 '05 (Page 3)
- Let us know if you agree to receive this newsletter via e-mail only (Page 1)

SWE Calendar - FY06

Date	Event	Location
Sept '05 (13 th , Tues) (24 th , Sat)	Web Seminar: Critical Communication Skills for Women in Technology Section Meeting- Kick Off Social /Welcome to new members Girls Engineering Day	Virtual King of Prussia Newtown
Oct '05 (9 th , Sun) (9 th , Sun) (11 th , Tues)	Sally Ride Science Festival Making Strides Against Breast Cancer Walk Section Meeting- Business Excellence (technical)	West Chester University Philadelphia Rohm and Haas (Croydon, PA)
Nov '05 (3 rd - 5 th) (9 th , Wed)	SWE National Conference Section Meeting- Professional Development	Anaheim, CA TBD
Dec '05 (8 th , Thurs)	Holiday Social	TBD
Jan '06 (9 th , Mon)	Section Meeting-Professional Development	TBD
Feb '06	Engineers Week activities	TBD
Mar '06 (8 th , Wed) (31 st - April 1 st)	Conference Planning Meeting Region E Conference	TBD Sheraton University City & Drexel University, Philadelphia.
Apr '06 (13 th , Thurs)	Scholarship Banquet	TBD
May '06 (8 th , Mon)	Technical Tour	TBD
June '06 (13 th , Tues)	Annual Section Planning Meeting	TBD

Announcements

§ Lockheed Martin Maritime Systems and Sensors is preparing to host their **Women in Engineering Day** for 10th Grade Girls this Fall. Last year's event reached over 200 girls and 60 educators across our six major business sites. This is a day long event filled with hands-on activities, team building events, and panel discussions exposing the girls to the many fields and aspects of the engineering profession. If anyone is interested in hosting a similar event at their place of business, we would be happy to share information to help them get organized and carry out their own successful event. Feedback from both students and educators has been outstanding. SWE is identified as a great source of information for the participants. Please contact Doreen Nixon at Doreen.m.nixon@lmco.com if you would like more information.

§ SWE Professional Development will be hosting a **web seminar** titled "**Critical Communication Skills for Women in Technology**" on Tuesday, September 13, 2005, from 3:00 p.m. to 4:00 p.m. EST. The web seminar, presented by consultant Dr. Audrey Nelson, will focus on critical skills necessary to communicate effectively. The web seminar is targeted to entry level professionals. More information can be found on www.swe.org/pdprograms. Please register at www.swe.org/criticalcomreg.

§ The Federal Emergency Management Agency (FEMA) is looking for a few good **engineers to help** with the disaster recovery effort **after hurricane Katrina**. FEMA has employed some companies to find and manage qualified people willing to participate in emergency response efforts, and ATCS is one of those companies. You can find ATCS, PLC in the government web site for Central Contractor Registration (www.ccr.gov). ATCS is working with a company called Encon (see www.enconss.biz for more information).

The work environment is like "boot camp" and the hours are long (12+ per day, seven days a week, for 30 - 45 days). This work is paid "straight time" including a per diem, and rates are based on experience level. All expenses will be direct billed to FEMA including air fare, car rental, hotel accommodations, cell phone, and any other equipment necessary to fulfill your approved work assignment (this means there should be little to no out of pocket expense). The type of work engineers are expected to perform includes, among other things, managing clean up efforts, assessing damage and writing damage reports. Once an approved person has signed an agreement with ATCS to work in the disaster recovery effort, that person should be ready to mobilize with 24 hours notice. Anyone desirous and qualified for this type of work should contact Mr. Tom King (president of Encon) at tking@enconss.biz or (863)-324-0090.

§ **Delaware Valley Engineer of the Year**. Please send nominations to Heather Bernardin at habernardin@yahoo.com. If you are interested in being a delegate to the election at 5:30 p.m. on November 9 at the PECO energy main office in Philadelphia, please let Heather know as well.

§ **Volunteers wanted! National Engineers Week**, dedicated to increasing public awareness and appreciation of engineering, is held in February each year. Engineers Week activities in the Philadelphia area are coordinated by the Delaware Valley Engineers Week Council (DVEWC), which is comprised of engineers from many of the area's technical and professional societies. Currently, the DVEWC is looking for volunteers to assist in many of the activities surrounding Engineers Week. Whether you have an hour, a day, a weekend, or more, DVEWC has a need for your talents and skills. Consider becoming involved in one of the following ways: newsletter, website coordination, Hall of Fame, Proclamation Luncheon, Annual Banquet, PR, fund development, or general assistance as needed. If you are interested in volunteering with DVEWC, or have any questions on the council or any of the volunteer opportunities, please contact Susan Best, PE, senior vice chair of the council, at slbest@urbanengineers.com or (215) 922-8081 ext. 1810.

§ **Widener University's graduate programs** in Engineering Management and Management & Technology are growing rapidly in response to the demand from practicing engineers for courses designed to meet their current professional challenges!

Widener also offers a graduate-level certificate program in mobile computing, perhaps the only one of its kind in the Philadelphia region. The certificate program is well-suited to the needs of today's working engineer, and is structured in such a way that professionals can earn the certificate - comprised of three required courses and one elective from a group of choices, for a total of (12) credits - in about one-and-a-half years, or even less, depending upon how many courses are taken per semester. Fall 2005 offerings include Mobile Computing and Wireless & Cellular Communications.

For more information about Widener's Mobile Computing Certificate program, visit: <http://www.widener.edu/SOE/mobilecomputing>. For more information about all of Widener's graduate programs in engineering, and to view the fall 2005 offerings, visit: <http://www.widener.edu/SOE/graduate>, or contact John Dixon, director of graduate & special programs at (610) 499-1294, or e-mail john.h.dixon@widener.edu.

Section News

❖ September Section Meeting

Our annual Kick-Off Social will be held on September 13 '05 (Tuesday) at 6:00 p.m.

Meeting Location: Champs American-Mall Blvd. & Gulph Rd., King of Prussia, PA 19406

Come join us for dinner and an evening of fun, networking, and camaraderie. The section officers will share what the section has planned for the year. More importantly, we'd like to hear your ideas on what the section should do. After meeting the section officers, as well as new and old SWE members, you just may be inclined to volunteer for some opportunities. Come find out and even create areas where we can use your contribution, energy, and help!

RSVP to Susan Sciaratta at (215) 579-1377 or kevinbsusan@msn.com.

❖ October Section Meeting

We constantly hear of various tools, techniques, and best practices all aimed towards achieving business and manufacturing excellence. "**So where are we on the journey to business excellence?**" Come to exchange views and hear a talk on the question above at our section meeting on October 11 '05 (Tuesday). The speaker on the topic will be Janet Hammill (Master Black Belt, Six Sigma for ERP Benefits Realization) of **Rohm and Haas Company**, a global specialty chemicals company. The meeting and a buffet dinner will be sponsored by Rohm and Haas at its Engineering Division near Bristol, PA. Dinner will be served at 6:00 p.m., followed by the talk at 7:00 p.m. Please RSVP by October 4 to Chris Miller at ChristineMiller@rohmmaas.com or (215) 785-7016, to help with the headcount.

Meeting Location: 3100 State Road, Croydon, PA 19021. [Park in the Visitors Parking Lot. Someone will be at the door to let you in. The meeting will take place in the Cafeteria Annex conference room. If there isn't anyone in the lobby to meet you, please call the conference room at (215) 785-7432.]

* Directions from South Jersey:

Rt. 295 North – Exit # 45 Burlington (Rt. 541 N). You will get off the ramp and be on Rt. 541 North heading towards Burlington. Turn left onto Rt. 130 South. Follow signs for the Rt. 413/Burlington-Bristol Bridge (\$2.00 Toll – NO EZ-PASS available) Cross the bridge, make a left at the first light onto State Road (intersection of Rt. 413 and State Road.) Make left into the first driveway on the left. Follow signs for visitor parking.

* Directions from Philadelphia:

Take I-95 North to Bristol Exit 40; turn right onto Route 413 South. Go South on RT. 413 for ~2 miles to Route 13, cross Route 13, and proceed under the railroad bridge in the far right-hand lane. This lane turns right immediately after the bridge; stay in right-hand lane. Follow to first light and turn right. The Engineering Division entrance is on the left side. Park in the Visitors Parking Lot. Inform the receptionist of your appointment.

* Directions from PA Turnpike:

Take turnpike to Exit 358 (Bristol Exit) to Route 13 South. Follow Route 13 South approximately 2-1/2 miles to Route 413. Cross 413 then take jug handle to 413 South. Follow 413 South under railroad bridge; stay in right-hand lane. This lane turns right immediately after the bridge, stay in right-hand lane. Follow to first light and turn right. The Engineering Division entrance is on the left side.

❖ 2006 Region E Conference

Our SWE Philadelphia section will be co-hosting this year's regional conference with Drexel University. The conference will be held from March 31 through April 1, 2006 at the Sheraton University City. The theme is "Women Engineers: Bridging the Past, Present, and Future". The planning team has been working on the proposal for the conference. We want to acknowledge the team members for their efforts. The team consists of Danielle Dunn, Barb Faust, Jen Garner, Deena Grattan, Florella Haines, Wendy Kershner, Rachel King, Karen Miu, Krystle Nagle, Doreen Nixon, Alexis Wallen, and Ayana Wood. Volunteers for conference planning are still requested, as well as suggestions for workshop themes. Also, anyone who has a recommendation for speakers at our keynote address, lunch session, or banquet is welcomed to give input. Please contact Jen Garner at foifencer27@verizon.net.

Upcoming Events Around the Region

- ❖ Below is the invitation/calendar of activities sent by **SWE DelMar Peninsula**:

* September 14 Noon, Luncheon, Iron Hill Brewery, Wilmington Waterfront.

Agenda/Notes for Sept. 14 meeting:

- Dates for luncheons and happy hours for the coming months (bring your calendar)
- How SWE DelMar Peninsula can start a mentor program,
- The possibility of adding two vice president positions to the section with oversight for various activities
- You comments, questions, and concerns

Bring a friend! E-mail with a reservation if you can, but don't let that stop you if at the last minute you can attend. RSVP to Barbara Zubenko at bzubenko@comcast.net or (302) 234-2050.

* October 12 5:30 p.m. Happy Hour, Shelhammers, University Plaza. RSVP to Barbara Zubenko at bzubenko@comcast.net or (302) 234-2050.

* November Noon, Luncheon, Iron Hill Brewery, Wilmington Waterfront, Date TBD

* December 5:30 pm Happy Hour, Shelhammers, University Plaza, Date TBD

- ❖ Susan Sciaratta will be running a workshop called "**Girls Engineering Day**" on Saturday September 24, 2005 from 9 a.m. to noon at the Newtown Township Municipal Building (lower level) on Route 413 in Newtown. This workshop has been coordinated through the local Parks and Recreation program by her company, Young Engin'uity. The girls will be aged 7-14 with a maximum of 25 kids. They will do a variety of hands-on activities to demonstrate several fields of engineering.
If interested in participating in part or in this entire program, please contact Susan at kevinbsusan@msn.com or (215) 579-1377.
- ❖ The **Making Strides Against Breast Cancer Walk** is a noncompetitive walk supporting the American Cancer Society's unique mission to fight cancer on four fronts: research, education, advocacy, and patient services. This year's walk will be held on Sunday, Oct. 9th. On-site registration starts at 7:30 a.m. and the Opening Ceremony starts at 8:15 a.m. To join the Society of Women Engineers-Philadelphia team as a walker or contributor, please contact Lisa Colosimo at (610) 219-6690 or lisa.colosimo@siemens.com for details.
- ❖ In collaboration with West Chester University, Sally Ride Science will host a science Festival for Girls on October 9th at the West Chester University campus. This Delaware Valley Science Festival will be the 35th Festival! Over the years thousands of girls, parents and educators have joined together for a day of fun, science, and socializing. For more information about the **Sally Ride Science Festivals** please feel free to visit the website: <http://www.sallyridefestivals.com>.

Sally Ride Science is currently recruiting exhibitors from the Delaware Valley Area for the Street Fair portion of the Festival. The Street Fair runs from 11 a.m. until 1 p.m. when Sally Ride gives her key note speech. Sally Ride, the first woman astronaut in space, launched her company to encourage, support, and nurture middle school age girls who are already interested in and passionate about math, science and engineering.

Sally Ride Science is looking for exhibitors to provide girls with kid-friendly, hands-on activities and cool access to information to support them in their interest in math, sciences, and engineering. The Festival provides an opportunity for you to have a very high profile with the attendees- hundreds of girls, parents and educators.

If you would be interested in participating in Sally's Delaware Valley Festival and/or need more information or have questions, please do not hesitate to contact Tracy Busse either by phone (215) 822-6713 or e-mail

tbusse@sallyridesience.com.

Sally Ride Science is also looking for a few workshop presenters. For further information on the possibility of presenting a Sally Ride Science Festival Discovery Workshop, please contact Dr. Bear Ride at bear.ride@gmail.com.

National News

❖ 2005 SWE National Conference

The Society of Women Engineers National Conference will be held November 3-5, 2005 at Anaheim Convention Center, Anaheim, CA. The 2005 theme “**Women Engineers Leading Global Diversity**” reflects our ever-changing world – diverse in culture and geography. This year, we will highlight the great contributions and progress women engineers have made to our world. The conference's professional development program is designed to prepare all women engineers – from students to the most seasoned professionals – to think globally, become leaders and contributors.

Our professional development program will kick off with a dynamic keynote by Sherri K. Stuewer, Vice-President of Safety, Health and Environment, Exxon Mobil Corporation. Her talk will address the linkage between energy and economic development, the need for new energy options recognizing that fossil fuels are finite, and the importance of lower emissions from new energy sources. She will challenge women engineers to get involved in finding these new energy technologies and in finding new technologies for the efficient use of energy.

A compelling set of workshops and seminars continue the professional development program. Organized into four tracks – [Diversity](#), [Education](#), [Personal Growth](#), and [Technology](#) – the conference offers the best in professional development. Although open to all participants, some sessions are of special interest to a student planning her/his transition to permanent internship positions. From finding a job in industry, government, or academia or being prepared for success when you begin that job, these [Especially for Students sessions](#) will give you the approaches and information you won't find anywhere else.

SWE also offers more professional development through [Leadership Coaching](#) (formerly Section Vitality), [Collegiate Leadership Coaching](#), (formerly Student Section Vitality), and the Professional Development Committee Workshop

Finally, for practicing engineers with continuing education requirements, check out this year's [Career Enhancement Series](#). There is a fresh and unique mix of programs that fit your needs.

Register by September 15, 2005 for the early bird discount. The pre-registration deadline is October 15, 2005. Registration details and other information on the conference can be found at www.swe.org/2005.

Professional Development

Fall 2005 Courses The Engineers' Club of Philadelphia

The Engineers' Club offers courses to meet the needs of many practicing professionals. Two Continuing Education Units (CEU) may be granted for the 8 to 10 week courses and one CEU for the 4 or 5 week courses. Tuition for the Engineers' Club courses includes the registration deposit, texts, and reference materials. The courses are held in center city, Philadelphia. Fall 2005 courses are listed below. For detailed course descriptions and other inquiries, please contact Mr. Thomas B. Payne, Director of Education at (215) 985-5701.

CONSTRUCTION

- C-1 **The 2003 International Building Code**, 10 weeks, start Mon 9/19/05, 6 to 8:30 PM, \$600
- C-2 **Home and Building Inspection**, 10 weeks, start Mon 9/19/05, 6 to 8 PM, \$500
- C-3 **Construction Project Management**, 8 weeks, start Thurs 9/22/05, 6 to 8:30 PM, \$500; if desired, the student may take four sessions of Planning & Scheduling for \$275 or four sessions of Estimates & Financial Control for \$275
- C-4 **Owners Representative for Construction - "Clerk of the Works"**, 9 weeks, start Wed 9/21/05, 6:30 to 8:30 PM, \$500
- C-6 **Contracts, Specifications, and Law for Construction Contractors and Engineers**, 10 weeks, start Tues 1/03/06, 6 to 8 PM, \$500

ELECTRICAL

- E-1 **Basic Protective Relaying**, 10 weeks, start Wed 9/21/05, 7 to 9 PM, \$500
- E-2 **Fundamentals of Instrumentation and Control**, 8 weeks, start Thurs 9/22/05, 6:30 to 8:30 PM, \$550
- E-3 **Fiber Optics & Networking**, 12 weeks, start Tues, 9/20/05, 6:30 to 8:30 PM, \$650

FIRE PROTECTION ENGINEERING

- F-1 **Fire Alarm and Detection Systems**, 10 weeks, start Mon 9/19/05, 7 to 9 PM, \$500
- F-2 **Advanced Sprinkler System Design**, 10 weeks, start Wed 9/21/05, 6 to 8 PM, \$500

GENERAL

- G-1 **Effective Presentations Causing Others to Listen and Act**, 10 weeks, start Thurs 9/22/05, 6:30 to 8:30 PM, \$500

MECHANICAL

- M-1 **Heating & Ventilation**, 10 weeks, start Wed 9/21/05, 7 to 9 PM, \$600
- M-2 **Basic Piping Design**, 10 weeks, start Tues, 9/20/05, 6:30 to 8:30 PM, \$500
- M-3 **Air Conditioning**, 10 weeks, start Thurs, 9/22/05, 7 to 9 PM, \$500

Fall 2005 Engineering Tours of the Delaware Valley

The Engineers' Club of Philadelphia sponsors engineering tours to facilities and sites with a wide variety of technical features. Each tour awards 2.5 Professional Development Hours (PDHs) for P.E. License renewal. Club membership is not required; cost is \$10 per person if you are not a member. For more information, contact The Engineers' Club at (215) 985-5701 or e-mail to info@engrclub.org. The Fall 2005 Engineering Tours are listed below.

Cira Centre, Philadelphia, PA, Wed, Sept. 21, 2005 at 10 AM. Observe several of the many unique features of Philadelphia's newest office building. Tour group limited to 30 persons.

Morris Arboretum, Philadelphia, PA, Sat, Oct. 1, 2005 at 10:30 AM. Tour the magnificent gardens and see the unique garden miniature railway with its meticulously detailed buildings, tunnels, and trestles. Tour group limited to 40 persons.

Chadds Ford Winery, Chadds Ford, PA, Wed, Oct. 12, 2005 at 10:30 AM. The tour of this historic winery in the Brandywine Valley will be followed by a wine-tasting session. A complimentary wine glass will be provided as a souvenir. Tour group is limited to 40 persons.

Samuel Grossi & Sons, Inc., Structural Steel Fabricating Group, Bensalem, PA, Tues, Oct. 25, 2005 at 9 AM. The hosts will provide a continental breakfast before the tour of this modern shop to see structural steel fabrication at its finest. Tour group limited to 40 persons.



**SWE Philadelphia Section
The Engineers' Club of
Philadelphia
215 South 16th St, Suite 36
Philadelphia, PA 19102**

Address Correction Requested

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

**SWE Philadelphia Section Newsletter
September 2005**

September Section Meeting

Tuesday, September 13, 2005

6:00pm

Details Inside!

**Newsletter copying and distribution is underwritten by a grant from
Lockheed Martin Integrated Systems and Solutions.**

Thank you!

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.