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SWE Outlook

September/October 2006

Letter from the President

As we all look forward to changing leaves and changing weather this season, the 2006-2007 SWE year is also ready to begin! Thanks to the efforts of our outgoing board officers, the Philadelphia section has shifted into high gear over the last few years and now a new crew of officers is ready to keep the section moving. I'd like to officially welcome all new officers and committee chairs and thank those who have changed roles or who are continuing their service. New to the voting positions of the section board are Vice President Tessa Winkler, Section Representative Aina Zahari, and Secretary Tori Morgan; returning to a voting board position is Publicity Chair Lisa Colosimo. As a group, we are looking to support SWE Philadelphia traditions such as the Engineering Mini Camp and our Scholarship program as well as to offer new programs and volunteer opportunities for all members. We recognize that we have not performed a section survey since 2002, so please take time to complete our new, member survey online: <http://www.philaswe.org/survey.php>. This will help us guide section activity and maximize the resources we have from our members.

SWE Philadelphia is proud to co-sponsor "Technology Day" with the Vanguard Group on Sept. 12, 2006 starting at 4:30 p.m. This event honors women in the Information Technology sector and we have been working with Vanguard to make this Career Guidance event a success for the past several months. A keynote address will be given to college and professional attendees by entrepreneur Avis Yates Rivers, who is a strong role model for women interested in Information Technology careers in a diverse workplace. SWE will be hosting an information booth and members are invited to volunteer at this booth and to register for this free event.

If you prefer a more casual introduction to SWE-Philadelphia, please join us for dinner and networking on Sept. 19, 2006 at 6 p.m. at Champps King of Prussia. Our annual kick-off social will serve to introduce members to each other and to officers and is a great way to see what's on the calendar for the year. Please RSVP to this event by contacting Susan Sciaratta, Meeting Coordinator, at kevinbsusan@msn.com.

Once again, thanks to all who have participated in SWE events in 2006 and who have served as officers, and welcome to all new section members! We hope to see you at upcoming events this year.

Jennifer Garner
SWE-Philadelphia Section President
foifencer27@verizon.net



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SWE Calendar

September 2006

9/12	Vanguard/SWE Technology Day	Malvern, PA
9/19	Kick-off Social at Champp's	King of Prussia, PA
9/28	Astra-Zeneca Tour with AIChE	Wilmington, DE
9/29-9/30	Girl Scout Jamboree	TBD

October 2006

10/8	Making Strides against Breast Cancer Walk	Philadelphia, PA
10/12-10/14	SWE National Conference	Kansas City, MO
TBD	Speaker Event	TBD

November 2006

11/14	Speaker Event at Rohm and Haas	Croydon, PA
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December 2006

TBD	Holiday Social	TBD
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From the Editors

Dear SWE Philadelphia Section Members,

Welcome to the first issue of the SWE section newsletter for 2006-2007! Throughout the year, we will bring you updates and information regarding the section's activities. We are currently working on changes to the format and welcome your feedback. If you have any suggestions on making the newsletter better, please do not hesitate to contact one of us.

Please be sure to check the SWE Philadelphia Section website at www.philaswe.org. This is an excellent source of up-to-date information. One of our section members, Diane Fernie, does an outstanding job maintaining our website.

Finally, we would like to encourage members to receive the newsletter via e-mail rather than U.S. mail as it helps reduce distribution costs. Please contact one of us if you're interested.

Sincerely,

Jurica Lee and Jaclyn Levengood
SWE Philadelphia Section Newsletter Editors



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Upcoming Events

SWE Kickoff Social

Come and join us at the SWE Philadelphia Kickoff Social at Champps in King of Prussia! This is your chance to meet our section officers, express your ideas and get involved. Enjoy dinner and have fun with your fellow SWE Members

When: Tuesday September 19, 2006 at 6:00 pm
Where: Champps Americana
330 Goddard Blvd.
King of Prussia, PA 19406
RSVP: Thursday 9/14 – Susan Sciarratta
215-57 9-1377 or kevinbsusan@msn.com

Joint AIChE and SWE Event at AstraZeneca

There will be a tour of AstraZeneca's Automated Compound Management Facility on September 28, 2006. The tour will start be 3:30-5pm. Participants will tour the facility as well as attend several presentations, including a possible talk by their Women in Research and Development group. Networking and dinner will follow after the tour. The cost will be \$20 per person. Please go to the AIChE section website at www.aiche-philadelphia.org for the most up to date information as well as the RSVP form.

SWE National Conference

Join 4,000 colleagues at the most powerful professional development conference for women in engineering and technology. Whether you are an undergraduate student, graduate student, entry level engineer or experienced professional, you will find three days filled with sessions, tours, networking, and career opportunities.

This year the SWE National Conference will be held at the Kansas City Convention Center in Kansas City, MO, October 12-14. The Keynote speaker will be Mary Armstrong, President of Boeing Shared Services Group. Professional attendees can save \$50 and collegiate attendees can save \$25 by preregistering for the conference. Pre-registration ends on September 30, 2006. Professionals can save an additional \$50 if registered by September 15, 2006! Please visit www.swe.org/conference for registration form and other conference information.

Member Survey

Help us to serve you better and win a prize in the process! Please take just five minutes and a few clicks to tell us what events, programs, and activities you want for the SWE Philadelphia section! The electronic survey will be posted on our website (<http://www.philaswe.org/survey.php>) for two weeks from **Tuesday, September 19th through Tuesday, October 3rd**. All survey participants will be entered in a drawing to win a \$25 gift card to **Target!** Good luck!



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Member News

Check out the newest edition to the Philadelphia SWE website (www.philaswe.org/membernews.php)! This site is all about the members, their contributions to the section, and their personal achievements. This site is specifically designed as a way for members to learn about each other and stay up-to-date on each other's lives. If you have your own Member News that you would like to share, e-mail tessa.winkler@gmail.com

Susan Best Elected to International Board of Direction for ITE

Susan Best, PE, has been elected to the International Board of Direction for the Institute of Transportation Engineers (ITE). She will Represent District 2 (which encompasses Pennsylvania, Delaware, Maryland, Washington DC, southern New Jersey, and a portion of northern Virginia) and be one of 16 board members setting the direction for the institute. Her three year term will begin in January 2007. Susan is a Fellow Life Member of SWE and is the section's Liaison to the Delaware Valley Engineers Week Committee. Congratulations, Susan!

Member of the Month



Congratulations to SWE Philadelphia section's inaugural Member of the Month: **Diana Fernie!** Diana took over as the Phila SWE website coordinator in 2005. Since then, she has done a fabulous job of completely re-vamping the section website and giving new life to our publicity program. She works tirelessly to create a user-friendly site to advertise all the important SWE news that you need to know! Diana, an electrical engineer, works for Schiller and Hersh doing electrical design. On behalf of all the Philadelphia section members, we would like to thank you for your hard work, dedication, and contributions! Keep up the good work!

Note: Would you like to nominate a deserving "Member of the Month"? Send your nominee's name and accomplishment to tessa.winkler@gmail.com

SWE Philadelphia Wants YOU!

Got time? Then we want you! The Philadelphia section is calling for volunteers to fill several open committee chair positions for the 2006-2007 year:

- Professional Development
- Speakers Bureau
- Science Fair Coordinator

Chairing a committee is a great way to enhance your leadership and time management skills. If you are interested in volunteering or would like more information, please e-mail Jennifer Garner (foifencer27@verizon.net).



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Member Spotlight



Name: Danielle Dunn

Profession: Staff Engineer, Vaccine Technology & Engineering, Merck & Co., Inc.

Company Website: www.merck.com

College/University: Rice University in Houston, Texas

Years as a SWE member: 7

Work Description: Merck manufactures several vaccines, including ones for chicken pox, measles, hepatitis, and a new one for human papillomavirus, which causes cervical cancer. I provide technical support for the raw materials that are used to make these vaccines. If we find a problem with any of these materials, I help to investigate it and develop corrective actions. I also work with our raw material suppliers to evaluate any changes they make in their manufacturing processes.

Tell us a little about yourself: I grew up in the Houston area and, after graduating with my bachelor's in chemical engineering, moved up here to Pennsylvania to work for Merck. (Interesting factoid – my small department, which consists mostly of engineers and a few scientists, has about 15 women and only 3 men!) I really like this area because there is so much to do with mountains, beaches, and several major cities all close by. Plus we don't get fall colors like this in Houston. ☺ I recently bought my first townhome in Upper Gwynedd and am still getting settled in. Looking forward to another productive year with SWE!

Officer Contact List

Office	Contact	Phone	E-Mail
President	Jennifer Garner	215-393-3597	foilfencer27@verizon.net
Vice President	Tessa Winkler	814-330-3337	tessa.winkler@gmail.com
Section Representatives	Heather Bernardin	610-454-0146	habernardin@yahoo.com
	Aina Zahari	215-785-7058	azahari@rohmmaas.com
Secretary	Tori Morgan	610-948-8889	vmorgan811@aol.com
Treasurer	Barbara Faust	215-257-6463	Barbara.Faust@swe.org
Membership	Jennifer Wetzel	215-573-3935	jwetzel@pobox.upenn.edu
Career Guidance*	Doreen Nixon	215-752-0827	doreen.m.nixon@lmco.com
Professional Development	Open		
Publicity	Lisa Colosimo	610-219-6690	LColosimo@ecount.com
Corporate Liaison	Michelle Lore	856-424-0177	mlore774@comcast.net
Student Liaison	Candice Hebden	215-351-0703	chebden@alumni.princeton.edu
Engineers' Week Liaison	Susan Best	215-922-8081 x1810	Susan.Best@swe.org
Awards	Christine Miller	215-785-7016	christinemiller@rohmmaas.com
Certificate of Merit	Barb Faust	215-257-6463	Barbara.Faust@swe.org

(Officer List Continued on Page 8)



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Professional Development

THE ENGINEERS' CLUB OF PHILADELPHIA
SUITE 36, 215 SOUTH 16TH STREET, PHILADELPHIA, PA 19102
Phone (215) 985-5701
www.engrclub.org

DESCRIPTION OF COURSES FOR FALL 2006

Registration, inquires, and detailed course descriptions for Engineers' Club courses can be obtained from Mr. Thomas B. Payne, Director of Education, at the above address, telephone number (215-985-5701) or E-MAIL info@engrclub.org.

CONSTRUCTION

C-1 THE 2003 INTERNATIONAL BUILDING CODE - (10 weeks - \$650 - Start Monday 9/18/06 - 6:00 to 8:30 PM) - Primarily covers in depth the non-structural provisions of the "2003 International Building Code®" with a structural and materials over view. This code has been adopted as the state code for Pennsylvania, New Jersey, New York, Maryland and two counties in Delaware. The 2003 International Building Code® will be provided as a text.

C-2 HOME AND BUILDING INSPECTION - (10 weeks - \$550 - Start Monday 9/25/06 - 6:00 to 8:00 PM) - Things you need to know to inspect all types of external, internal and structural systems. A text, supplemental information and field trip will be provided.

C-3 CONSTRUCTION PROJECT MANAGEMENT - (8 weeks - \$550 - Start Thursday 9/21/06 - 6:00 to 8:30 PM) - Develops a comprehensive management system for planning, scheduling, estimating costs and financial control of construction projects.

C-4 TECHNIQUES OF PROJECT CONTROLS - CPM - (11 weeks - \$550 - Start Thursday 9/28/06 - 7:00 to 9:00 PM) - Practical planning, scheduling and cost control primarily using the Critical Path Method scheduling technique.

ELECTRICAL

E-1 BASIC PROTECTIVE RELAYING - (10 weeks - \$550 - Start Wednesday 9/20/06 - 7:00 to 9:00 PM) - Application and testing of protective relays found in utility and industrial electric power systems.

E-2 FUNDAMENTALS OF INSTRUMENTATION AND CONTROL - (8 weeks - \$550 - Start Thursday 9/21/06 - 6:30 to 8:30 PM) - Presents the fundamentals of instrumentation and process control as found in industrial plants.

E-3 FIBER OPTICS & NETWORK WIRING - (12 weeks - \$700 - Start Tuesday 9/19/05 - 6:30 to 8:30 PM) - A hands on course on the installation, trouble shooting and repair of small fiber optic networks. This course satisfies the requirements for students who want to take the certification test for fiber optic installers.

FIRE PROTECTION ENGINEERING

F-1 FIRE ALARM AND DETECTION SYSTEMS - (10 weeks - \$550 - Start Monday 9/18/06 - 7:00 to 9:00 PM) - An in depth review of fire alarm and detection systems including building and fire code requirements, NFPA 72 and design of commercially available systems.

F-2 SPRINKLER SYSTEM BASICS- (10 weeks - \$650 - Start Thursday 9/21/06 - 6:00 to 8:00 PM) - Detailed review of the NFPA standards for commercial and residential sprinklers, fire pumps, stand pipes, water supplies and underground.



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MECHANICAL

M-1 HEATING & VENTILATION- (10 weeks - \$650 - Start Wednesday 9/20/06 - 7:00 to 9:00 PM) - Covers building heating codes, heat loss calculations, heating and ventilation systems design, and equipment selection.

M-2 BASIC PIPING DESIGN - (10 weeks - \$550 - Start Tuesday 9/19/06 - 6:30 to 8:30 PM) - Basic theory and application of piping design found in boilers, air-conditioning systems, refineries, nuclear and fossil fuel power plants, chemical processing, metallurgical industries and drainage systems.

M-3 AIR CONDITIONING- (10 weeks - \$550 - Start Thursday 9/21/06 - 7:00 to 9:00 PM) - Covers building cooling codes, heat gain calculations, cooling and air conditioning systems design, and equipment selection. Successful completion of Engineers' Club Heating & Ventilation Course is a prerequisite.

-----PLEASE DETACH ALONG THIS LINE-----

THE ENGINEERS' CLUB OF PHILADELPHIA

Suite 36
215 South 16th Street
meeting.
Philadelphia, PA 19102-3349

For more information call **Tom Payne** on (215) 985-5701

Registration deposits, (\$50.00/course), are refundable if requested not less than 7 days before the first class

Tuition is refundable until the second class meeting, less the registration deposit.

Please register me in the following course(s): (1) _____ (2) _____ (3) _____

Print your name as it should appear on the Certificate of Course Completion.

Name _____

Home Address _____

Company _____ Position _____

Company Address _____

Company Telephone No. _____ Home Telephone No. _____

Enclosed is a check for \$ _____ Make Payable to: **"The Engineers' Club of Philadelphia"**

Club Member: Yes ___ No ___