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SWE Outlook

February 2007

Letter from the President

Welcome to a new year of SWE activities and opportunities! In 2006, the Philadelphia Board and Section developed a range of events including professional development meetings, fundraising activity for charity, and social opportunities. It was a pleasure to meet new members and reconnect with current members from month to month. The section was also able to participate in two kinds of organizational networks, the

Philadelphia Pre-College Alliance and the DelVal Engineering Collaboration. The “alliance” will attempt to provide continuing outreach to minority students with an interest in engineering, and will include a bridge between high school, community college, and four-year college programs. The “collaboration” seeks to provide a common place for scholarship applications and awards among the various technical organizations looking to reach students. SWE can partner with both these organizations in a positive way!

In the coming year, our calendar will continue to serve the needs of our members by providing activities of interest, based on our fall web-based survey. Our members in the Harrisburg-York area plan to organize a Bowling and Networking event on Saturday, February 10th in Mechanicsburg. Several members are participating in outreach activities during Engineers’ Week, February 18-24th. Nationally, E week includes “Introduce a Girl to Engineering” as part of its programs this year. SWE-Philadelphia provides financial support for the Delaware Valley Engineers’ Week Council in order that these activities are a success. The Widener Mini-Camp program for high school girls is again being co-sponsored by SWE Philadelphia, and members are encouraged to volunteer on Saturday February 24th; contact Vicki Brown. Please see the schedule at the end of the newsletter for additional activities planned.

Our annual collegiate scholarship program is also underway. Krista Pohl has become our new scholarship chair, and has a team of section volunteers who will work to distribute and review the applications, then select winners. Collegiate members should look for application information by mail and via web link at the beginning of February. We appreciate the support of our corporate contacts who continue to make these scholarships possible, and thank Corporate Liaison Michele Lore for connecting the section to these sponsors.

Finally, I encourage section members to register and attend the Region E Conference March 2-4 at NJIT, Newark, NJ. Workshops are planned for both students and professionals, and there are even stress-relieving activities such as workouts, massage, and tips for healthy cooking! This is an opportunity to network with students and potentially spark mentoring opportunities, an activity that many members indicated interest in per the survey. Additionally, you may be able to expand your professional network via contacts made during the conference.

Looking forward to continuing our sections success this year!
Jennifer Garner
SWE Philadelphia Section President.

*Aspire ~ Advance ~ Achieve***SWE Calendar**Most up to date information can always be found on www.philaswe.org

Month/Date	Activity
February	
Sat 10	Bowling and Networking, Mechanicsburg
Thurs 15	Drexel Panel Event
18-24	Engineers' Week
Fri 23	Newsletter Submission Deadline
Sat 24	Widener Engineering MiniCamp
March	
All	Women's History Month
Fri - Sun, 2-4	Region E Conference, NJIT
Week of 19 th , TBD	Speaker & Dinner Event (Penn State Great Valley or Vanguard), Professional Dev.
Sat 24	AAUW Touch the Future (Lansdale)
April	
Week of 9 th , TBD	Speaker & Dinner Event (Penn State Great Valley or Vanguard), Professional Dev.
Fri 20	Newsletter Submission Deadline
Wed 25	Awards and Scholarship Dinner
May	
Sat, TBD	Lancaster Railroad Trip
Via ballot	FY08 Officer Elections
June	
Fri 8 th	Section Report Due
Week of 18 th , TBD	FY08 Planning Meeting

Widener Engineering Mini-Camp

In cooperation with the Philadelphia Section of the Society for Women Engineers, Widener University School of Engineering will host its 8th annual Engineering Mini-Camp for High School Girls on Saturday February 24, 2007, from 9AM-4PM. The camp will be on the university's main campus in Chester, PA. This is an opportunity for high school girls interested in science and math to explore engineering careers in a hands-on laboratory setting with women from the Philadelphia Section of the Society of Women Engineers and female engineering students and alumni from Widener University. To register, please visit: www.widener.edu/SOE/minicampgirls.



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Video Web Seminar

Leading with Authenticity

February 15, 2007

5pm (EST)



Speaker: Lynn Townsend
Award-winning writer and motivational speaker

Lynn Townsend will lead a fun and down-to-earth Web seminar exploring everyday choices that create authenticity at work. Attendees will be reminded of eight "DO" behaviors that build trust and credibility – and be provided with practical tips to make authentic choices starting today.

Lynn Townsend has more than a decade of Fortune 500 experience in manufacturing and communications. She has an M.A. degree in communication from Western Michigan University and a B.S. degree in food science from Purdue University. Lynn is an award-winning writer, motivational speaker and inspirational vocalist. She and her colleagues, John Barrett and David Wheatley, have recently published "50 DOs of Everyday Leadership: Practical Lessons Learned the Hard Way (So You Don't Have To)."

This Web Seminar is free for SWE members; \$49 for non-members.

This seminar is generously sponsored by Kellogg's.

Region E Conference 2007

"Increasing Diversity in Engineering"

March 2nd – March 4th 2007 @Newark, NJ at

NJIT, New Jersey Institute of Technology

For information on schedule, registration, and travel information,
please visit: <http://sweregional.googlepages.com/>

Contact information for conference coordinators:

Registration Questions: Leslie Miller [Leslie.Miller @ Stryker.com]

Conference Questions: Talina Knox [knoxt @ njit . edu]

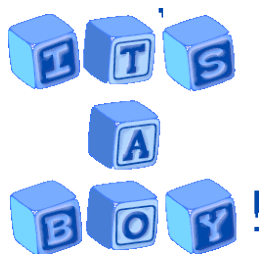
Webmaster: Hanisha Patel [hkp6 @ njit . edu]

*Aspire ~ Advance ~ Achieve****DeVry University Forum***

DeVry University Professor, Forough Ghahramani, and Director of Community Relations, Sid Holmes, of DeVry University Pennsylvania hosted a day long forum on November 16, including the HerWorld Workshop, for approximately 95 high school girls who are considering careers in science, technology, and engineering. In addition to delivering the HerWorld Workshop, the event featured several hands-on workshops including a leadership workshop as well as a panel on career choices and advice on balancing work life with family life. The forum allowed attendees to discuss opportunities and challenges they might face as women entering the science, healthcare, engineering, and technology professions.

The keynote address, "Women Blazing Technology Trails", was delivered by Helen Muth, Director of Control Systems Engineering at Honeywell Corporation. The panelists included professionals from a diverse set of disciplines: Lisa Colosimo from SWE was one of the panelists. There were a lot of good questions from the girls during the panel session and many girls came up to the panelists individually afterwards to ask questions. They asked questions mostly about what classes to take to go into a particular field or to get into a college program.

The activities of the day sought to draw attention to the looming crisis and opportunity our society faces as it scrambles to train and motivate the next generation of engineers. Students saw how engineers who represent less than five percent of the total adult work force, have helped to create more than 50 percent of our nation's continuing economic opportunities. The career opportunities available in technical positions were highlighted, which the Department of Labor projects will grow four times the national job growth rate. The event was a celebration of the contribution of engineers to all aspects of society with specific emphasis on the contribution of women engineers and the continuing trend of bringing more women to the field of engineering.

Baby Announcement

Congratulations to
Susan Sciarratta and Kevin Boyd
on the arrival of
Jason Scipione Boyd
on December 27, 2006.
He weighed 7lb 7oz and was 21" long.



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Interdisciplinary Conference by Villanova and Gonzaga Universities

Contemporary Ethical Problems in Engineering Practice: A Dialogue

May 31-June 2, 2007 at Villanova University

This conference will bring together practicing engineers, academics, representatives of professional societies, and others associated with ethical problems in engineering. The aim is to construct a picture of:

- a) the ethical problems facing engineers in practice today;
- b) What can be or is being done to help engineers deal effectively with ethical problems, and
- c) How can we transfer this knowledge into the engineering curriculum?

The conference will feature "invited" plenary speakers followed by panel discussions. The goal of the conference is to facilitate conversation, across disciplines, on the dilemmas facing the engineering professional.

Invited Keynote Speakers include:

- * Michael Davis, Professor of Philosophy, Center for the Study of Ethics in the Professions, Illinois Institute of Technology
- * Brian Sears, Ethics Officer, Lockheed-Martin
- * Arthur Schwartz, Legal Counsel, National Society for Professional Engineers

Call for Cases, Practices, and Proposals

We invite submissions of:

- * actual ethical problems and how they were handled
- * organizational arrangements that were or were not helpful
- * proposals for more effective ways to deal with ethical problems in engineering practice.

We are especially interested in receiving submissions from individuals in:

- * academia
- * management
- * government/regulatory organizations
- * law and legislation
- * professional societies
- * Catholic engineering colleges

Submissions should be no more than 500 words in length; please take appropriate steps to disguise the names of individuals and organizations unless these are already publicly available.

Deadline for submissions is January 10, 2007. Submissions should be emailed to: mark.doorley@villanova.edu

Submissions selected for the conference will be eligible for inclusion in the conference proceedings.

Costs and Schedule

Thursday, May 31: Reception and First "invited" Plenary Speaker

Friday, June 1: "Invited" Plenary speakers and panel discussions; Banquet, with speaker

Saturday, June 2: "Invited" Plenary Speaker on Curriculum issues and panel discussion; Lunch

Conference fee of \$200 includes registration, reception, and meals; lodging is available at the conference site as well as the Villanova Conference Center and area hotels.

For additional information, please visit: <http://www.ethics.villanova.edu/conference/>



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The Engineers' Club of Philadelphia
Educational Program- Spring 2007
For Detailed Information call Tom Payne on (215) 985-5701
or E-MAIL info@engrclub.org

CONSTRUCTION

- C-1 THE 2006 INTERNATIONAL BUILDING CODE - (10 weeks - \$650 - Start Monday 3/19/07 - 6:00 to 8:30 PM) - Primarily covers in depth the non-structural provisions of the "2006 International Building Code®" with a structural and materials overview. This code has been adopted as the state code for Pennsylvania, New Jersey, New York, Maryland and two counties in Delaware. The 2006 International Building Code® will be provided as a text.
- C-2 HOME AND BUILDING INSPECTION - (10 weeks - \$550 - Start Monday 3/19/07 - 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 Wednesday 3/21/07 - 6:00 to 8:30 PM) - Develops a comprehensive management system for planning, scheduling, estimating costs and financial control of construction projects.
- C-4 OWNERS REPRESENTATIVE FOR CONSTRUCTION - "CLERK OF THE WORKS" (9 weeks - \$550 - Start Tuesday 3/20/07 - 6:30 to 8:30 PM) - A comprehensive review of the methods and procedures required to be an owners representative for a construction project.
- C-5 MECHANICAL CONSTRUCTION - MEP FIELD SUPERINTENDENT (9 weeks - \$550 - Start Wednesday 3/21/07 - 6:30 to 8:30 PM) - Covers the practical application of construction basics and comprehensive project management systems for the mechanical, electrical and plumbing disciplines in the execution of major construction projects

ELECTRICAL

- E-1 BASIC PROTECTIVE RELAYING - (10 weeks - \$550 - Start Tuesday 3/20/07 - 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 Tuesday 3/20/07 - 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 Thursday 3/22/07 - 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.
- E-4 HOME AUTOMATION- (8 weeks - \$550 - Start Friday 3/23/07 - 6:00 to 9:00 PM) - Covers the major themes of home automation and prepares the student for ETA's Residential System Integration Certification. Combines hands on experience with computer simulation using Punch Home design software.

FIRE PROTECTION ENGINEERING

- F-1 FIRE ALARM AND DETECTION SYSTEMS - (10 weeks - \$550 - Start Monday 3/19/07 - 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 SYSTEMS BASICS - (10 weeks - \$650 - Start Monday 3/19/07 - 7:00 to 9:00 PM) - Detailed review of the NFPA standards for commercial and residential sprinklers, fire pumps, standpipes, water supplies and underground.

MECHANICAL

- M-1 HEATING & VENTILATION- (10 weeks - \$650 - Start Wednesday 3/21/07 - 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 Thursday 3/22/07 - 7:00 to 9:00 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 - \$500 - Start Thursday 3/22/07 - 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
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 meeting.
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 ___



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

Address Correction Requested

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