



# SWE Outlook

November 2004

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## Newsletter Editors:

Danielle Dunn  
Barbara Faust

We welcome your contributions to the next issue of *SWE Outlook*! See page 3 for details.

*SWE Outlook* is published on our website and is available for direct mail to Section Members and other interested parties in electronic and/or paper formats. Please forward your preferred e-mail address and option for electronic copy only or for both electronic and paper copies to [Barbara.Faust@swe.com](mailto:Barbara.Faust@swe.com).

## President's Corner

The leaves are quickly changing colors and falling from the trees. Soon the holidays will be upon us. Before the hectic holiday season begins with Thanksgiving, why not take time to join SWE for our meeting on Monday, November 8<sup>th</sup> at the Fountain Side Seafood Restaurant & Grill in Horsham PA. At the meeting Larry Cone will talk about project management. Larry is a motivator, problem-solver, and business process analyst skilled in software process management, project scoping and estimation, project staffing, management and delivery. He brings his cumulative experience of over one hundred software projects to bear on technology problems and opportunities. Larry founded and built Cone Software to a \$5 million, thirty-five person software development and IT services organization. See below for meeting details.

The board is still looking to add committee chairs. The two most critical needs are Scholarship Chair and Meeting Coordinator. Both of these chairs get help from section members. The Scholarship Chair coordinates sending out the applications, receiving and disseminating the completed applications and notifying the applicants of the judge's results. Most of this work is done in February and March. The Meeting Coordinator confirms speakers, reserves restaurants, and collects RSVPs from members for our meetings, and coordinates joint meetings with other organizations. This job only takes 1-2 hours per month. If you are interested in either of these positions or any of the open positions listed on the section contact list, please contact me at [habernardin@yahoo.com](mailto:habernardin@yahoo.com).

*Heather Bernardin*

### Section Meeting for November 2004 Project Management Speaker: Larry Cone, Founder of Cone Software

Date: Monday, November 8, 2004     Time: 6 pm

Place: Fountain Side Seafood & Grill  
537 Easton Road, Horsham, PA  
215-957-5122     <http://www.fountainsideseafood.com/>

Cost: \$30 per person (guests welcome)

RSVP: Heather Bernardin, [habernardin@yahoo.com](mailto:habernardin@yahoo.com), 610-454-0146  
with menu selection:

**Raviolis Boscauoli:** Wild mushrooms and ricotta-filled ravioli in a mushroom marsala sauce.

**Grilled Salmon:** Served with compound butter, tomato relish on a bed of spring mix.

**Chicken Marie:** Sautéed chicken topped with red roasted peppers and mozzarella cheese in a vodka plum tomato sauce.

## SWE Calendar of Events - FY05

Date	Day	Event	Location
Oct 10	Sun.	Walk for Breast Cancer Awareness	Philadelphia
11	Mon.	Section Meeting - Professional Certification, speaker from state registration board	LaCampagnola, Lansdale
14-16	Thurs-Sat	SWE National Conference	Milwaukee, WI
Nov 8	Mon.	Section Meeting - Project Management, speaker: Larry Cone	Fountain Side Seafood Grill, Horsham
Dec 13	Mon.	Holiday Social	Oxford Valley area
Jan		Section Meeting - Recycling Plastics, speaker from Merck	TBD
29	Sat.	Philadelphia Regional Future City Competition	Villanova University
Feb		Engineering Mini-Camp for High School Girls Engineers' Week Activities	Widener University Various
Mar		Joint meeting with ASCE and WTS Science Fair Judging AAUW Touch the Future Program	TBD Various TBD
Apr 11	Mon.	Awards Banquet	Sheraton Parkridge, King of Prussia
May		Technical Tour Certificate of Merit Presentations	TBD Various
June		Section Planning Meeting Certificate of Merit Presentations	TBD Various

### Announcements

- **Call for Papers for ICWES 13:** The 13th International Conference of Women Engineers and Scientists (ICWES) will take place on August 28-31, 2005 at Ewha Woman's University in Seoul, Korea. The conference theme is *Women Engineers and Scientists: Main Force to Reshape the Future World*. Program areas are: Science and Technology, Information Technology, Nanotechnology, Biotechnology, Energy/Environment/Space, Education and Ethics, Gender Issues and Leadership. Deadline for submission of abstract is November 15, 2004. For updated information, please refer to the ICWES13 website: [www.icwes13.org](http://www.icwes13.org) (If prompted to install a language pack, click "Cancel" and you will be able to view information in English.)
- Lisa Colosimo, acting Section Membership Chair, is updating our Section e-mail lists using the information in the National on-line Member Directory. If your contact information is not current, please update your profile at [www.swe.org](http://www.swe.org). (Log in and click on the left-hand link to Member Services.) If you have stopped getting Section e-mails or if they are being sent to the wrong address, please send a message to [owner-phila\\_section@swe.org](mailto:owner-phila_section@swe.org)
- Access to the national **SWE on-line directory** requires your member ID and password. If you've misplaced or forgotten your password (or don't know your new member ID), please e-mail the member services center at [hq@swe.org](mailto:hq@swe.org).

# Section News

## October Section Meeting: Professional Engineer Certification

The October section meeting was held at La Campagnola Italian restaurant in Lansdale on Monday, October 11. Attendees included Susan Best, Deena Gratton, Maggie Schwartz, and new members Kristen Awrachow and Alexis Wallen. Speaker Albert Tantala, P.E., a member of the State Registration Board for Professional Engineers, Land Surveyors and Geologists, presented an overview of the procedures and requirements for obtaining a license as a Professional Engineer in the state of Pennsylvania. These requirements include:

- Graduation from an approved engineering curriculum or at least eight years of progressive engineering experience
- Satisfactory completion of the Fundamentals of Engineering (F.E.) exam
- At least four years of progressive engineering work or teaching experience, after graduation and completion of the F.E. exam
- Satisfactory completion of the Principles and Practice of Engineering (P.E.) exam.

Mr. Tantala also shared several interesting statistics on the engineering population: for example, Pennsylvania is home to more than 10% of the country's engineers.

For more information on licensing, visit the board's website at <http://www.dos.state.pa.us/bpoa>

## Five-Mile Walk to Fight Breast Cancer

Early on Sunday morning, October 10, a large crowd gathered in front of the Philadelphia Museum of Art, ready to Make Strides Against Breast Cancer. This annual event, a 5-mile walk, raises money for the American Cancer Society to help fund the fight against breast cancer. Among the crowd was the small but enthusiastic SWE Philadelphia Section team, consisting of Lisa Colosimo and her dog Sam, Nicole Johnson, Danielle Dunn, and her friend Lisa Law. The stroll along the Schuylkill River was very pleasant thanks to the beautiful, sunny weather. Best of all, the team raised over \$650 in donations. This was the section's third year of participation in this event.

## November/December in Technological History

November 5, 1852: American Society of Civil Engineers was founded

November 12, 1927: first long underwater tunnel for vehicular traffic, the Holland Tunnel under the Hudson River, officially opened

November 15, 1971: First microprocessor, the Intel 4004, was introduced

December 2, 1902: World's first patent on a V-8 engine was awarded in France

December 3, 1967: First human heart transplant

December 3, 1982: First permanent artificial heart transplanted into human patient

December 4, 1996: First mass-produced electric car was released by General Motors

- from the Center for the Study of Technology and Society,

<http://www.tecsoc.org/pubs/history/menu.htm>

## Newsletter Needs: Send your News & Photos!

Contributions to the newsletter are welcome from members of the SWE-Philadelphia section, student sections, other sections in the region, and other engineering organizations. Have you heard about a local volunteer opportunity? Seen an article that may be of interest to women engineers? Have an idea for a joint activity between SWE-Phila and another section or organization? Send us the info!

Also, since a picture is worth a thousand words, please feel free to submit photos of section members participating in section activities, volunteer activities or other engineering-related events. Announcements and photos will be included as time and space permit. Please send inputs to Danielle at [diddunrice@yahoo.com](mailto:diddunrice@yahoo.com).

# Volunteer Opportunities

## Future City Competition Saturday, January 29, 2005 at Villanova University *by Jennifer Wetzel*

Greetings from the Philadelphia Regional Future City Competition! This year's competition is underway with 35 schools already signed up. Registration will run through October 31; we expect another great turnout this year. We need your help to keep the competition growing! Volunteers are needed to help out as judges and evaluators at the competition, but right now our greatest need is for school mentors. Mentors guide the students as they design a city of the future on computer using the *SimCity 3000* program and build a 3-D model of their city. Please consider helping us this year. Here is a list of schools signed up that do not have mentors. For the complete list of registered schools, please visit our website at [www.futurecityphilly.org](http://www.futurecityphilly.org).

General George A. McCall School	Philadelphia, PA (Center City)
Governor Mifflin Middle School	Shillington, PA
Mast Community Charter School	Philadelphia, PA (Far northeast)
Morrison Elementary School	Philadelphia, PA (Olney)
Shaw Middle School	Philadelphia, PA (Southwest)
Stetson Middle School	West Chester, PA
Widener Memorial Middle School	Philadelphia, PA (Fern Rock)

Is there a school that you'd like to help out? Please let me know which school, and I'll get you in touch with the teacher. Is a school you have worked with in the past not yet signed up? Feel free to contact the school yourself, or I'll have our Schools Coordinator contact the teacher for you. Interested in helping but don't see a school in your area? Let me know what area and I will contact you if a local school needs a mentor. Are you not able to be a mentor, but would like to volunteer at our competition? Please visit [www.futurecityphilly.org](http://www.futurecityphilly.org) for more information and to sign up on-line, or send me an e-mail at [volunteer@futurecityphilly.org](mailto:volunteer@futurecityphilly.org).

### Remembering our Purpose: What is the Society of Women Engineers?

The **SWE Mission** is to:

- stimulate women to achieve their 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
- demonstrate the value of diversity

The **SWE Vision** is to be the recognized authority on, and advocate for, women in engineering.

The **SWE Objectives** are:

- to inform young women, their parents, counselors, and the general public of the qualifications and achievements of women engineers and opportunities open to them;
- to assist women engineers in readying themselves for a return to active work after temporary retirement;
- to serve as a center of information on women in engineering; and
- to encourage women engineers to attain high levels of educational and professional achievement.

# Professional Development

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## Resume and Interviewing Skills Workshop at Lockheed Martin

by Doreen Nixon

The women of the SWE subsection at Lockheed Martin MS2 Moorestown are offering a workshop on resume writing and interviewing skills, aimed at undergraduate SWE members who are starting their job search - whether it be for a co-op position or their first full-time job after graduating.

**Date:** Thursday, November 11, 2004

**Time:** 4:30 pm to approximately 8 pm

**Location:** Delaware Valley Regional Recruiting Facility  
224 Strawbridge Dr.  
Moorestown, NJ 08057

**Phone:** 856-914-5700

**Fax:** 856-914-5725

Dinner will be provided (sandwiches, salads, etc).

David Bennett, Director of the Regional Recruiting Facility, will present tips on how to write an effective resume that will be noticed even with today's electronic search engines, and provide examples of good and bad resumes. Experienced engineers will also review interviewing skills - emphasizing what the student has to offer other than their GPA, during an interview. Break out sessions will be held to help provide more personal and informal advice. Students are welcome to send their resumes in advance to Doreen Nixon for critiquing or bring them to the workshop. This is not a formal interview, nor is it intended as a job fair. Please RSVP by Monday, November 8 to Doreen Nixon, Telephone: (856) 722-7316, Cell: 215-266-6978, Email: [doreen.m.nixon@lmco.com](mailto:doreen.m.nixon@lmco.com)

## ASME/AIAA Symposium in Aerospace and Mechanical Engineering

by John Wolf, ASME Philadelphia Section

On January 29, 2005, the Philadelphia sections of the American Society of Mechanical Engineers (ASME) and the American Institute of Aeronautics and Astronautics (AIAA) will hold a symposium to present developments in aerospace and mechanical engineering. Area companies and engineers are invited to present papers and poster sessions during this day-long event at the Plymouth Meeting Quest Quarters Hotel. Session Topics will include: Energy & Propulsion Systems - fuel cells, hydrogen technologies, advanced cycles, thermal-fluids, heat transfer; Micro & Macro Materials - Nano-technology, MEMS, ceramics, composites, polymers, smart materials, manufacturing techniques; Sensors & Controls - smart sensors, control methodologies, non-destructive methods, laser-based techniques; Vibrations & Dynamics - rotor and machinery dynamics, acoustics, passive and active damping, noise control. Attendees will learn about the latest technological advances being made in the Delaware Valley area and meet other like-minded individuals who are advancing engineering technology around the world. All engineering professionals in the area are encouraged to attend either as presenters or audience members. Presenters must submit abstracts by December 7, 2004.. For more information, contact Jerry Jones by email to [gerald.jones@villanova.edu](mailto:gerald.jones@villanova.edu) or phone 610-519-4980 or Kamran Foulard by email to [foulard@infomec.cd](mailto:foulard@infomec.cd) or phone 610-687-4550. Application forms may be obtained at [www.AIAA.org](http://www.AIAA.org) or [www.ASME.org](http://www.ASME.org).

### JOB BANK Listing: Software Developer

IntelliSource, Inc. is looking for an immediate developer with strong Oracle (9i), SQL and PL/SQL skills to perform a data audit. Candidates should have strong communication skills, experience with defining requirements, and strong writing skills. This position is with a non-profit organization in Philadelphia. For more information, please contact Carolyn Dougherty, CPC, President, IntelliSource, Inc., phone: 610.617.8873, e-mail: [intlsrce@verizon.net](mailto:intlsrce@verizon.net), or visit [www.gotflex.com](http://www.gotflex.com).

# ***Around the Region***

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## **Science Fest in Lehigh Valley**

SWE-Lehigh Valley participated in Bethlehem's first annual Science Fest on Sunday, October 10, 2004. This event is designed to bring the excitement of hands-on and minds-on science and technology to children of all ages and their families. SWE members helped children make "Mysterious Mechanisms" at a table during the event held at Marvine Elementary School in Bethlehem. The mechanisms, which were easy to make, demonstrate 1st, 2nd and 3rd degree levers using heavy duty paper and push pins.

## **First FY05 Meeting in DelMar Peninsula**

SWE DelMar Peninsula Section held their first meeting of FY05 at the Delaware Art Museum on September 30, 2004. Members had the opportunity to view *American Originals*, an exhibit featuring 300 years of U.S. history reflected in original documents from the National Archives, including the Louisiana Purchase Treaty, Edison's patent for the electric lamp, Delaware's Ratification of the Constitution, and Kennedy's notes on his inaugural address. The exhibit also includes The Emancipation Proclamation, signed by President Lincoln.

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## **Rohm and Haas Engineers Strong Diversity Partnerships**

*submitted by Alexandra Samuels, Rohm and Haas*

There is a profound power in the way in which adults can influence the career decisions of promising young people.

Rohm and Haas – a special materials company and long-time supporter of SWE and its programs – takes this power very seriously as it has begun to formalize its partnership efforts by recruiting more of its professionals to get involved in the organization. Earlier this Fall, Rohm and Haas Executive and SWE member Suzanne Rowland joined representatives of other organizations with whom Rohm and Haas collaborates, as they explained the impact they have on young adults and how Rohm and Haas will make a difference through their diversity partnerships. Rohm and Haas has appointed Rowland as the liaison for SWE.

"We recognize that SWE is a strong organization for both Engineering professionals and young women interested in this field," said Rowland. "In partnering with SWE, myself and other employees would really like to make a positive impression on young, talented women pursuing careers in this industry."

Rohm and Haas employees will participate in various outreach programs offered by SWE, including outreach to middle school and high school students, as well as their work on college campuses. It is the company's hope that Rohm and Haas employees might inspire and serve as mentors to young women interested in the field of Engineering.

"For the continued success of the Rohm and Haas Company, we've encouraged our employees to get involved in retaining, mentoring, and attracting talent that represents the diversity of our customers and communities throughout the world," said Stacey Adams, Corporate Diversity Manager for Rohm and Haas.

This first ever Community Engagement Meeting (CEM), held at Rohm and Haas Philadelphia headquarters, brought together SWE, BEEP (Black Executive Exchange Program), and LEAD (Leadership Education and Development Program in Business, Inc.) representatives, who explained their respective organizations and their impact on young adults.



SWE Philadelphia Section  
*The Engineers' Club of Philadelphia*  
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Address Correction Requested

Visit our Web Site at <http://www.swephila.org>  
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**SWE Philadelphia Section Newsletter**  
**November 2004**

**Section Meeting: Project Management**

Monday, November 8, 2004  
6 pm  
Fountain Side Seafood & Grill, Horsham, PA  
RSVP to Heather Bernardin  
**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.*