



SWE Outlook

March - April 2002

Inside this Issue

- 2 SWE Calendar
Announcements
National SWE Scholarships
Calls for judges
Girl Scouts
Call for Speakers at IIWE 2002
- 3 Section News
Scholarship Program
In Memoriam - Valarie Bagnell
- 4 More Section News
Engineering Mini-Camp
Future City Competition
Certificate of Merit Program
Call for Nominations
Touch the Future Program
- 5 Around the Region
Region E Conference
- 6 More Region News
Section Vitality Event
Susan Miskowicz Scholarship
DelMar Peninsula Section
New Jersey Section
Lehigh Valley Section
- 7 Team SWE at National Race for the Cure
- 8 National News
COR Meeting
Student News from Drexel
Pearls from the Fellows
- 9 Professional Development
Engineers' Club Tours
Tidbits from the Web
- 10 Job Bank
- 11 FY02 Contact List

We will gladly include news items and meeting announcements from SWE Student Sections and nearby SWE Sections in *SWE Outlook*. Please send information to Barbara.Faust@swe.org. Announcements for other organizations will be included as time and space permit.

April Events

Annual Awards Banquet

Please join us on April 26th to honor our 2002 college scholarship award recipients and to recognize the contributions of our corporate sponsors and members to our section activities.

Date: Wednesday, April 24, 2002

Time: Networking: 6:00- 6:30 pm

Dinner: 6:30 pm

Place: Wyndham Suites Valley Forge
Chesterbrook Corporate Center
888 Chesterbrook Boulevard, Wayne, PA
610-407-7180

Cost: \$30 for Members and Guests
\$20 for Students

RSVP to: Agnes Yeboah by Friday, April 19th
215-915-4839 or senga100@hotmail.com
Please specify meal selection.

Menu Selection: Grilled Salmon with Pommeray Mustard Sauce or
London Broil with Mushroom Sauce
(Vegetarian Meal available on Special Request)

Directions: The Wyndham Suites Valley Forge is located at the Chesterbrook Boulevard Exit on Route 202, approximately 3 miles south of the Route 202 / Schuylkill Expressway / PA Turnpike intersections in Valley Forge / King of Prussia.

From Southbound on Route 202 - exit at Chesterbrook Blvd. ramp. Hotel entrance is on the right.

From Northbound on Route 202 - exit at the Route 252 / Chesterbrook / Paoli ramp. Turn left at the bottom of the ramp. Turn right onto Duportail Road at the traffic light and follow to the Wyndham parking lot.

Region E Meeting - *The Path Less Traveled*

SWE Lehigh Valley Section is hosting the Middle Atlantic Region Meeting on April 19-21, 2002, at the Radisson Hotel Bethlehem, 437 Main Street, Bethlehem, PA. See page 5 for schedule and other details.

Science Fair and Scholarship Award Judging

Philadelphia Section Members will be evaluating college student scholarship applications and 6th through 12th grade science fair projects to determine recipients of this year's awards. Recipients will be announced in next month's newsletter.

SWE Calendar - FY02

Date	Event	Location
April 24 10 19-21 23	Awards Banquet Delaware Valley Science Fairs - judging Region E Conference Hoffman Workshop hosted by NJ Section	Wyndham Suites Valley Forge Fort Washington Expo Center Radisson Hotel Bethlehem New Brunswick, NJ
May 12 16-17 17-18 18	Susan G. Kormen Race for the Cure Board of Directors Meeting #4 2002 Science Olympiad - Nationals Badge Day, Junior Girl Scouts of Freedom Valley, PA	Philadelphia Washington, D.C. University of Delaware, Newark Downingtown, PA
June TBD 1 8	Family Event - Minor League Baseball Game Race for the Cure - Breast Cancer Awareness National Girl Scout Sing-Along	TBD Washington, DC National Mall, Washington, DC
July 1-12 27-31	International Institute of Women in Engineering (IIWE) Summer Session 2002 12th International Conference of Women Engineers & Scientists-ICWES 12	Paris, France Ottawa, Canada
October 9-12	FY03 National Conference-The Art of Engineering	Detroit, MI

Announcements

- The web pages for the **National SWE scholarships** have undergone a major update. Visit <http://www.swe.org> to see the new scholarship forms. Information is also available for some of the scholarship programs sponsored by SWE Sections.
- **Judges needed for Student Technical Paper Competition**
Sarah Winnacker, Region E Student Coordinator, is seeking judges for the 2002 SWE Student Technical Paper Competition. Categories to be judged include: Introduction, Methods, Results, Discussion, References, Originality, Clarity of Purpose, Presentation/Technical Appearance, Organization, Technical Merit. All SWE professional members are eligible to serve as judges - you need not be an expert in the topic of the paper. Interested SWE members should contact Sarah as soon as possible as the judging results are due in by May 1st; phone: 607-755-2643; e-mail: swinnack@us.ibm.com.
- **National Girl Scout Event - World's Largest Girl Scout Sing-Along**
Since their founding in 1912, the Girl Scouts have used songs to celebrate life, to bridge cultural boundaries, and to communicate their commitment to the principles that guide the movement. More than 100,000 girls are expected from across the country to convene at the base of the Washington Monument from 1:30 to 4:00 pm on Saturday, June 8, 2002 and to use the power of music to celebrate the 90th Anniversary of Girl Scouting. For more information, visit <http://www.gssing.org>. Register on-line at <http://www.gscnc.org/newstuff/singalong>.
- The **Girl Scouts of Freedom Valley, PA** are seeking women to speak with Junior Girl Scouts (ages 10-12) or to conduct workshops to help them with an **"Aerospace" badge** on May 18th in the Downingtown area. Workshops are to include: experimenting with various paper airplane designs and simple glider models to see which designs fly best; learning about the history of air travel, including developments in aircraft; and learning what it takes to be a pilot or aircraft designer. Information on resources that could be used are also requested. If you can help, please contact Mary Ann Rodda, 215-761-1134 or 610-942-2020, MaryAnn.Rodda@CIGNA.COM
- **Call for speakers at the 2nd International Institute for Women in Engineering (IIWE)** to be held July 1 - 12, 2002 at the EPF Ecole d'Ingenieurs in Paris, France. Last summer's IIWE 2001 session was a resounding success and this international gathering of student women engineers is expected to be even better. Topics to be addressed include: the social status of an engineer, how engineering is taught, what approach is privileged (theoretical/practical), how many women study engineering, what engineering fields women go into, real career opportunities for women, professional office practices, engineering ethics, and how women balance their professional and personal lives. The objective is to enable participants to grasp the differences between engineering practices in their own countries and what happens in the geographical area presented by the speaker. For more information, please contact Ms. Gay Tischbirek, E-mail: Gay.Tischbirek@epf.fr or visit website <http://www.iiwe.epf.fr>.
- The **Institute of Transportation Engineers (ITE)** will hold their **Annual Meeting and Exhibit** in Philadelphia on August 4 - 7, 2002 at the Philadelphia Marriott. For more information, call Donna Ford at ITE Headquarters, 202-289-0222, x140, or visit web site <http://www.ite.org> and click "Meetings and Conferences" on the menu bar.

Section News

FY002 Scholarship Program

In order to reach out to more of the women engineering students who attend schools within the Philadelphia Section boundaries, we have changed the eligibility requirements for our Section Scholarship Awards to give more local students the opportunity to apply for the awards. Previously, eligibility was limited to full-time female undergraduate and graduate students enrolled in an engineering program at schools that have a SWE Student Section and are located within the Philadelphia Section boundaries, specifically, Drexel University, Swarthmore College, Temple University, University of Pennsylvania, Villanova University, and Widener University.

Eligibility is now expanded to include full-time female undergraduate and graduate students in an engineering or engineering technology discipline or in computer science. The list of eligible schools now also includes Penn State Abington, Penn State Delaware County, Penn State Harrisburg, Penn State York, Philadelphia University, and Thaddeus Stevens College of Technology. Previous winners of SWE Philadelphia Section scholarships and/or other SWE national or section scholarships are also eligible as long as the student is currently enrolled in an engineering,

engineering technology, or computer science program at one of the schools listed above.

Notices have been sent out to the local SWE Student Sections and to selected faculty at the schools that do not have student sections. Applications forms are also available at the Philadelphia Section web site <http://www.libertynet.org/sweeps>. Applications must be post-marked by April 6, 2002. Completed forms should be sent to Shetal Patel, Scholarship Chair, 299 Fotheringham Court, Langhorne, PA 19047. For questions concerning these awards, please contact Shetal Patel (215-750-7546 or patel_shetal@hotmail.com) or Barbara Faust (215-257-6463 or Barbara.Faust@swe.org).

Volunteers are needed to judge the scholarship award applications. If you are interested, please contact Shetal Patel as soon as possible (see contact information above).

Our scholarship award winners will be honored at the Annual Awards Banquet to be held on Wednesday, April 24, 2002 at the Wyndham Suites Valley Forge (see page 1 for more details).

In Memoriam - Valarie A. Brenner Bagnell

Philadelphia Section Member Valarie Bagnell died suddenly at age 45 in West Deptford, NJ, on February 20, 2002. A Chemical Engineering graduate of the University of Missouri at Rolla, she worked as an Engineer with the US Navy NSWCCD SSES in Philadelphia where she received many awards and accolades over the years. Valarie had served as a Section Officer and in many career guidance activities. For over 35 years she was dedicated to the Girl Scouts; she also enjoyed cross stitching and crocheting and she was an avid football fan.

A dear friend of hers, Arlene P. Griggel, wrote that what she admires most about Valarie was her innate ability to manage the events involving her family and career so fully. Her calendar was always chock-full of family events. It was very rare for Valarie, or her husband Charles, to miss an occasion that involved her daughter Ashley or son Carter. She always knew the dates, times, and locations of EVERY soccer, band, scout, and Young Eagles event. As a Girl Scout mom and leader, she organized numerous events throughout the year in support of the South Jersey Pines Girl Scout Council. She encouraged her children to seek the most they could from life. By being supportive, encouraging, loving, and responsive parents, Valarie and Charles have provided their children the best foundation for their future.

Memorial contributions may be made to the Girl Scouts of South Jersey Pines, 2944 Victoria Avenue, PO Box 948, Newfield, NJ 08344-0948 or to a charity of the donor's choice. Contributions made to the SWE Philadelphia Section will be used to fund an award or projects for Girl Scouts in the Philadelphia Section area. Expressions of sympathy may be e-mailed to tributes@mcjfuneral.com.

More Section News

Third Annual Engineering Camp For High School Girls

The third annual SWE - Widener University one-day engineering camp for girls in grades 9-12 was held on Saturday, February 23, 2002, at the Widener campus in Chester, PA. The participants included 91 girls, approximately 65 parents, 21 women engineers, and about 14 women engineering students. The girls had hands-on laboratory experience while interacting with members from the SWE Philadelphia and DelMar Peninsula Sections, other Widener engineering alumnae, members of the SWE Widener University Student Section. Each girl could select four of the eight available labs: Aerodynamics and Flight, Reaction Kinetics, Electric Circuits, Tower Building, Programming Robots, Roller Coasters, Motorized Lego Vehicles, and Water Treatment Systems. In the camp evaluations filled out by the girls, 86% said that the camp would help them decide whether or not to major in engineering, while 84 % said that they were more excited and enthusiastic about an engineering career.

This year also featured an expanded Parents' Program that focused on career opportunities for women in engineering, as well as financial, academic, emotional, and social aspects of preparing a daughter for engineering school. The Parents' Program ran concurrently with the labs for the girls. The parents also took advantage of the lunch session and in-between times to speak with the SWE members who were there.

Thanks to Philadelphia SWE members Vicki Brown, Megan Kline, Maggie Schwartz, Susan Sciarratta, Mary Ann Skehan, Lisa Colosimo, Christine El-Beyrouy, and Barb Faust, and to all the other women engineers and students who helped to make this another successful event.

Future City Competition

The 2002 Philadelphia Region first place team from Our Lady Help of Christians School competed well in the National Future City Competition held on February 19th and 20th in Washington, DC. Progress of the team from preparation through competition will be part of the PBS ZOOM® program in January 2003. Details will be provided at web site www.futurecityphilly.org as they become available.

Tour of US Mint

The originally planned technical tour of the US Mint in Philadelphia could not be scheduled because the facility closed the tour area to the public in September and it is not known when it will reopen.

Certificate of Merit Program

As of April 4th, 29 high schools within the Philadelphia Section boundaries have responded to this year's Certificate of Merit program to recognize the achievements of high school girls in the study of math and science. To date, four schools have requested a **SWE presenter** for the awards:

- Haverford Sr HS, Havertown, May 28th, 7:00 pm
- Octorara Area HS, Atglen, June 5th, 7:30 pm
- Wissahickon HS, Ambler, June 5th, 7:00 pm
- Villa Joseph Marie HS, Holland, May 30th, 9:30 am

If you are interested in presenting the awards at any of these schools, please contact Barb Faust (215-256-6463 or Barbara.Faust@swe.org)

Call for Nominations / Volunteers for Section Offices and Committee Chairs

Consider developing your leadership skills by serving as a SWE Section Officer or Committee Chair. If you are interested in any of the elected positions - President, Vice President, Treasurer, Secretary, or Section Representative - please contact Heather Bernardin (Phone: 610-989-3212; E-mail: hbernardin@fcg.com) as soon as possible so that the election slate may be prepared in a timely fashion.

Judges Needed for DVSF Science Fairs

One or two additional SWE judges are sought to help evaluate the projects to receive Philadelphia Section Special Awards at the 2002 Delaware Valley Science Fairs competition for 6th through 8th grade students on Wednesday, April 10th. Project research and experiment documentation is evaluated in the morning and student interviews are conducted in the afternoon. SWE volunteers may participate in either or both sessions. If you are interested, please contact Barb Faust (215-257-6463, Barbara.Faust@swe.com) as soon as possible.

Touch the Future: A Celebration of Women in Math and Science

Philadelphia SWE members and other local women engineers conducted four sessions of four different engineering workshops at the American Association of University Women (AAUW) Touch the Future program held on March 9, 2002 at the Pennbrook Middle School in North Wales, PA. These workshops included Tower Building (Megan Kline), Roller Coasters (Barb Faust), Highway Engineering, and Bio-medical Engineering / Orthopedics. Ten to 16 girls in 6th through 8th grade participated in each hands-on session. The sessions seemed to be fun for the girls.

Around the Region

Region E Spring Conference - The Path Less Traveled

All region members should have received a registration flyer from the Lehigh Valley Section for the **2002 Mid-Atlantic Regional Conference** that will be held at the Radisson Hotel Bethlehem in Bethlehem, PA on April 19-21, 2002. As women engineers we have chosen "the path less traveled." This conference will provide additional tools, education, motivation, and inspiration to make the engineering journey more enjoyable.

Agenda Highlights

Friday night features a Walking Tour of Bethlehem followed by a welcoming reception to socialize, sample some desserts, and enjoy product demonstrations by SWE members who have direct-sales businesses.

Saturday's events include: morning registration and continental breakfast followed by two morning seminar sessions, the keynote lunch, two afternoon seminar sessions, a late afternoon social hour, dinner with a guest speaker, and evening entertainment.

Morning Seminar Sessions

9:00 - 10:15 am

- A1 Working Overseas (Panel Discussion)
- B1 Young, Hip, and Professional
- C1 Increasing SWE Section Membership
(Section Vitality Workshop)

10:30 - 11:45 am

- A2 Surviving a Downsizing
- B2 Making Science Fun for Kids
- C2 Geotechnical Engineering in Norway

Lunch from 11:45 am to 1:45 pm features the **Keynote Address** by Dr. Julie A. Shimer, CEO Vocera Communications, who will be speaking on "The Future of Wireless Communications."

Afternoon Seminar Sessions

2:00 - 3:15 pm

- A3 Presenting a Powerful Image
- B3 Engineers in the Community (Panel Discussion)
- C3 Pennsylvania Growing Greener

3:30 - 4:45 pm

- A4 Flexible Work Arrangements (Panel Discussion)
- B4 Get Fit in Minutes a Day!
- C4 Science Policy in Washington: A Congressional Perspective (ASME-Sponsored Seminar)

The **Social Hour** from 5:00 to 6:00 pm provides an opportunity to make new SWE friends and catch up with the happenings in the lives of "old" SWE friends.

Dinner from 6:00 to 8:00 pm features a talk by Mr. Gerson Montenegro, VP of Engineering and Operations, Personal Products World Wide, Johnson & Johnson Consumer Companies and recipient of the SWE 2001 Rodney D. Chipp Award.

Entertainment after dinner is a comedy juggling show by Mr. Tom "The Space Painter" Sparough who uses storytelling and juggling to present some important life-skill messages.

Sunday activities include: continental **breakfast** from 8:00 to 8:30 am; a SWE **Section Vitality Workshop on Strategic Planning** given by Ms. Janet Anderson, SWE Region E Trainer, from 8:30 to 9:30 am; a **Region E Business Meeting** conducted by Ms. Michelle Tortolani, Region E Director; **brunch** from 11:30 am to 1:30 pm with Ms. Randi Minetor who will speak about her groundbreaking book, *Breadwinner Wives and the Men They Marry*; and a **walking tour** of Bethlehem from 1:30 to 2:45 pm.

Conference registration and fees should be mailed by April 5, 2002 to Shannon Wowak, 1311 N. 13th St., Apt. C22, Allentown, PA 18052. Checks should be made payable to SWE-Lehigh Valley. Updated conference information is available at the SWE-Lehigh Valley web site <<http://www.geocities.com/swelv>>. Contact Kathy Kinsey (570-261-3884 or kinseyko@apci.com) for more details.

Accommodations are available at the Radisson Hotel Bethlehem, 437 Main Street, Bethlehem. Room rates are \$99 (excluding tax) per night for single or double occupancy. Reservations should be made directly with the Radisson by calling 610-625-5000; identify yourself as part of the Society of Women Engineers Conference.

More Region News

Section Vitality Event

The Section Vitality Task Force has developed training modules to support the development of leadership and management skills at the section level. These training modules focus on topics that are essential in creating and maintaining a vital section. Janet Anderson conducted a Mid-Atlantic (Region E) Section Vitality Training Session on Saturday, March 23rd at Peddler's Village in Lehaska, PA. Training topics included: Team Building, Section Public Relations & Communications, Membership, and Conflict Management. For more information on section vitality and training, visit www.windsornet.com/njswe/svevent.html. Additional training sessions are scheduled during the Region E Conference in Bethlehem, PA on Saturday and Sunday mornings (see page 5).

Susan Miskowicz Scholarship

SWE has established the September 11th Susan Miskowicz Memorial Scholarship to honor the New York City Section member who died in the attacks on the World Trade Center. For more information, visit the SWE web site: <http://www.swe.org/SWE/President/Panorama>.

DelMar Peninsula Section

- SWE Members who are also DuPont employees participated in Engineering Your Tomorrow workshops for 6th to 8th grade Girl Scouts held on Saturday, February 23rd at the DuPont Experimental Station in Wilmington, DE.
- A joint meeting with the University of Delaware Student Section was held on Wednesday, March 13th. Meeting topics included a general discussion about getting a job or intern position and the FIRST robotics competition.
- The 2002 Science Olympiad will be held on May 17-18 at the University of Delaware in Newark, DE. For more information call 302-831-3145 or visit scienceolympiad@udel.edu.
- If you are interested in learning to golf or joining a women's league, contact Barbara Zubenko (bzubenko@dca.net). The Delcastle Golf Club on McKennan's Church Road has a 9-hole women's league that runs from April to October on Tuesday during the day, an Executive Women's League on Monday nights, and adult beginner group lessons. Hartefeld National in Avondale offers 2-hour lessons on Fridays from 5 to 7 pm during the summer. Barb is looking for advice from an experienced golfer on how to get started. You may also ask to be put on the "SWE Golf distribution list" to get more information as it develops.

New Jersey Section

- This year SWE NJ is taking part in the selection of recipients for the National SWE scholarships awarded to college sophomores, junior, seniors, and graduate students. This effort must be completed by the end of April.
- SWE NJ is bringing the Hoffman Program to teachers and guidance counselors of NJ on Tuesday, April 23rd. This event will be held in the New Brunswick area, beginning with a continental breakfast at 7:30 am; the program itself will run from 8:00 am to 12 noon; lunch will be held after the program. SWE is providing three trained Hoffman Program presenters; this event is registered with the State of NJ to provide Continuing Education credits to participants. Space is limited for this event. The program is available to people from outside NJ, but preference will be given to NJ teachers. For more information, please contact Kim Keller, Administration Division Program Office Manager; Phone: 732-524-2113; Fax: 732-524-6370; E-mail: kkeller9@corus.jnj.com.
- The College of Engineering at Rowan University offers a one-week workshop for middle school girls every summer to get them interested in engineering careers. If your company is interested in being an industrial sponsor for this workshop, please contact Dr. Kauser Jahan, P.E., Associate Professor of Civil and Environmental Engineering, 333 Rowan Hall, Rowan University, 201 Mullica Hill Road, Glassboro, NJ 08028; Phone: 856-256-5323; Fax: 856-256-5242; E-mail: jahan@rowan.edu.

Lehigh Valley Section

- As host section for the Region E Spring Conference, activities are full gear to ensure a good conference.
- SWE LV presented Special Awards at the Lehigh Valley Science Fair competition held on March 16th. Philadelphia Section members Maggie Schwartz and Barb Faust also helped with the judging. Overall winners of this fair go on the Delaware Valley Science Fairs to be held at Fort Washington.
- SWE LV is soliciting applications for their scholarship awards from high school seniors at schools within their Section boundaries. Nominations are also being sought for recipients for their Certificate of Merit program awards.

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

TEAM SWE at the National Race for the Cure

The **Baltimore-Washington Section** has put together a team that will be participating in this year's National Race for the Cure. All Society members, family, friends, and co-workers are welcome to participate with us in the race.

The Susan G. Komen Breast Cancer Foundation National Race for the Cure® is the world's largest five-kilometer (5K) run/walk hosting more than 72,000 participants in 2001. The Race will return to the streets of the Nation's Capital on Saturday, June 1, 2002. A portion of the net proceeds of this event will go to the Susan G. Komen Breast Cancer Foundation Research Program.

Race Schedule:

7:00 am Pre-Race Rally, Washington Monument Grounds
8:30 am Runners start-line, 12th St & Constitution Ave, NW
8:45 am Walkers start-line, 15th St & Constitution Ave, NW
10:00 am Post-Race Rally & Awards Ceremony, Washington Monument Grounds, Constitution Ave & 17th St, NW

Registration:

The Race registration fee is \$25 for entries postmarked by May 15; late registration is \$30 and will be available at the outdoor Woodrow Wilson Plaza of the Ronald Reagan International Trade Center on May 30 - 31 from 11 am to 6 pm daily. Online registration is \$30 prior to May 15, and \$35 from May 16 - 23, which includes shipping and handling of bibs and T-shirts.

Due to National Park Service regulations, there is no registration on Race day. For information, please call 703-848-8884.

For more information or to register online, go to www.nationalraceforthecure.org.

WHEN REGISTERING, BE SURE TO:

- Write in **SWE** as your TEAM CODE
- Contact TEAM SWE Captain **Diana Joch** at diana.joch@swe.org so we have you on our list and can give you information on where to meet the day of the race.

BREAST CANCER FACTS

- Breast cancer is the leading cause of death among women ages 40-59, and it is the leading cause of cancer death among women ages 20-39.
- For women between the ages of 50-69, there is strong evidence that mammography reduces breast cancer deaths by approximately 30%.
- In 2001, it is estimated that 192,200 women will be diagnosed with breast cancer, and 40,200 women will die of breast cancer.
- In 2001, it is estimated that 1,500 men will develop breast cancer, and 400 will die.
- One woman is diagnosed with breast cancer every 3 minutes, and one woman will die of breast cancer every 13 minutes.
- Breast cancer is the most common cancer among women of all ages. The most proven and significant risk factors are being female and getting older.
- African Americans have the highest death rate from breast cancer of any racial/ethnic group in the United States.
- Breast cancer is the leading cancer site among American women and is second only to lung cancer in cancer deaths.
- The majority of women with breast cancer have no known significant family history or other known risk factors.
- Only 5-10% of breast cancers are due to heredity. If her cancer is detected while still confined to the breast, a woman has a five-year survival rate of over 95%.
- A woman's chance of developing breast cancer increases with age. In the United States, a woman has about a 13% lifetime risk of developing breast cancer.
- In the Vietnam War, 59,000 American soldiers died. During that same 10-year period, 330,000 American women died of breast cancer.

National News

Council of Section Representatives Meeting Recap

Maggie Schwartz, one of our two Philadelphia Section Representatives, attended the FY 02 Council of Section Representatives (CSR) meeting held in Chicago on March 9th, 2002. This meeting is usually held in conjunction with the National Conference that was traditionally held during the last week in June. Because the National Conference has now been moved to October, there would not have been a CSR meeting in FY 02, so another meeting was needed. Meeting minutes are available from Maggie Schwartz and are to be posted on the Headquarters web site.

Some of the items discussed included:

- a motion to **change the name of the Council from CSR to Council of Representatives (COR)** to more accurately reflect the fact that the voting members of the Council include not only representatives from each SWE Section, but also representatives for the students and members-at-large (MALs) in each region - motion was adopted
- a progress report and recommendations from the Board of Directors and **COR Transition Team Reports** concerning **organizational changes within the Society** - Region E team members are Nancyjane Bailey and Merav Kushner (the University of Pennsylvania Student Section President) - these teams are to continue to work out and clarify details of the reorganization and pay special attention to 22 specific concerns identified by the CSR Transition Team
- a motion to **change the Member Reinstatement Fee to \$0** was adopted - this change is to be in effect until such time as the COR may approve another motion to change it.

Student News

Drexel University Student Section

Congratulations to the newly-elected officers and committee chairs for FY03: President - Diana Fernie; Vice President - Michelle Fuller; Treasurer - Sari Tukiainen; Public Relations Chair - Shanna Pendleton. Chair positions are still open in Community Service, Professional Development, and Web Master. Volunteers are requested.

The Drexel SWE Section is hosting an Alternative Spring Break at Daytona Beach, FL. Students may participate in a number of activities that include: Habitat for Humanity, Beach/Park clean-up, turtle patrol, soup kitchen, nursing home, food delivery to the underprivileged. The last day is planned as a holiday.

The Pocono Trip scheduled for May 17-19 at a retreat center with ice breakers on Friday, low-rope challenges on Saturday, and high rope challenges on Sunday.

For more information on activities of the SWE Drexel Student Section, visit www.pages.drexel.edu/~dsoswe or contact swe@drexel.edu.

Pearls of Wisdom

from the Fellows Panel at 2001 National Conference

The topic of the SWE Fellows Panel at the 2001 Conference was "Having Our Say - Lessons in Life, Leadership, and SWE." Panelists were Debra Evans (Chicago Regional Section), Judie Forbes (MAL-B), Jean Hoppert (MAL-H), Anna Salguero (Past Society President, Southwest Texas Section), Irene Sharpe (Detroit Section), and Susan Whatley (Past Society President, MAL-D); the Moderator was Alexis Swoboda (Central New Mexico Section). The panelists have nearly 170 years of combined engineering experience and at least the same amount of SWE experience. They include mothers, grandmothers, and single women as well as a US Navy veteran, a part-time librarian, more than one quilter, a fox hunter, a pilot, and more - they are women with many talents and interests and a willingness to share their histories. Here is another excerpt of some of the Fellows' advice for sanity and success - Pearls of Wisdom from our SWE Fellows.

On Leadership - "Provide the right environment for people to develop."

Jean Hoppert

The **SWE OBJECTIVES** are:

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

Professional Development News

Engineers' Club Spring 2002 Engineering Tours of the Delaware Valley

Each tour may be awarded 2.5 Professional Development Hours (PDHs) toward P.E. license renewal; anyone may participate; cost is \$10 per person, Engineers' Club members and one guest may attend at no charge. For more information, contact the Engineers' Club directly (Phone: 215-985-5701; E-mail: info@engrclub.org; or Fax: 215-985-5704).

Redevelopment of the Conshohocken Waterfront, Conshohocken, PA on Saturday April 13, 2002 at 10 AM - a walking tour of the project selected as Outstanding Engineering Achievement of 2002 (tour group limited to 40 persons, minimum age of 12 years)

Battleship New Jersey, Camden, NJ on Saturday, April 27, 2002 at 9 AM - This floating museum is our nation's most decorated battleship (tour group limited to 40 persons, minimum age of 6 years)

Boardwalk Hall, Atlantic City, NJ on Saturday, May 11, 2002 at 10 AM - originally opened in 1929, this historic sports and special events center has just undergone a \$100 Million restoration (tour group limited to 40 persons, minimum age of 12 years)

Astro-Power Corporation, Newark, DE on Wednesday, May 29, 2002 at 6 PM - tour a state-of-the-art plant dedicated to the manufacture of solar/electric equipment (tour group limited to 40 persons, minimum age of 14 years)

Tidbits from the Web

Food for thought from the monster.com site

Women in Nontraditional Fields by Therese Droste, Monster Admin/Support Career Advisor

Summary

Women are making their way into male-dominated fields. More are moving into high tech, science and management. Pay scales for men and women are still uneven.

It's 2002, and more and more many traditionally male-dominated fields are now drawing more women. The worlds of high tech, science and management are just a few areas where, more and more, women are making their mark.

Women in High Tech

Katherine Tobin, senior director of research at Catalyst, a Manhattan-based research and advisory group for women recently performed a study called "Leadership Careers in High Tech: Wired for Success." The study included 19 women and 11 men who are "emerging leaders" in 10 technology companies that sell, develop, design and service computer hardware, software and telecommunications.

In Tobin's study, most women agreed mentors were vital to their careers. "Women had stories of multiple mentors and said they would not be where they were today if they hadn't had their mentors," says Tobin.

Although women make up 51 percent of the population and earn 56 percent of all bachelor-level degrees awarded, women earned only 27 percent of the bachelor-level computer and information science degrees awarded by US academic institutions from 1997 to '98. And the share of all computer science degrees awarded to women in the US has fallen from a peak of 37 percent from 1984 to '85 to 27 percent from 1997 to '98, according to the US Department of Education.

Got a Head for Science?

If you have a head for science, don't shy away from pursuing your talents. Indeed, science is another burgeoning field for women. The Washington, DC-based American Association for the Advancement of Science's first ever study of its members reveals that not only do most scientists like their

jobs, they also feel their education has paid off in a highly rewarding, if not lucrative, career.

According to the study, the number of women joining life sciences will find a gender pay gap: Men earn almost one-third more than women do -- \$94,000 versus \$72,000. The salary gap is greatest among academic administrators, where the midpoint is \$120,000 for men and \$75,000 for women; in industry and government, the pay is \$160,000 for men and \$125,000 for women.

The gender gap isn't limited to the workplace, either. Most women scientists in the study felt their careers were constrained to some extent by their spouses. On the other hand, only 7 percent of the male scientists felt their spouse's career needs had seriously affected their own. As such, more women than men reported holding part-time jobs.

Women in Management and on Boards

How are women in management faring compared to five years ago? A recent report of data from 10 industries reflects that female managers continue to lag behind men in both pay and advancement. "A New Look Through the Glass Ceiling: Where are the Women?" was released in January by Representatives John Dingell (D-Michigan) and Carolyn Maloney (D-New York). According to the report, women managers are more common in personnel, human relations, education and related fields. Only one of the industries studied -- professional medical services -- had more women managers than men. Although women in management may lag behind men, there is some progress in the number of women on corporate boards -- a presence that directly impacts a company's direction as well as its attitude toward women. In the "2001 Census of Women Board Directors of the Fortune 1000," another report released by Catalyst, women hold 12.4 percent of all board seats in the Fortune 500, an increase from 11.2 percent in 1999, and almost 11 percent of all board seats in the Fortune 1000, up from 10 percent in 1999.

Job Bank

Director of Operations for a Fortune 500 company - a manufacturing professional who can drive lean initiatives and create leaders within the organization is sought for a large, multi-shift assembly operation in Ohio. This position includes responsibility for 30 salaried staff and 1200 hourly personnel. High volume background and advanced degree are preferred. For more information, contact Whitney Hodges, President, Recruiting Services Group, Inc. (RSG), phone: 901-367-0778; fax: 901-367-0868; web site: www.rsghunt.com; e-mail: whodges@rsghunt.com.

Signals/Communication Engineer - An engineer, preferably with a P.E. and 15+ years' experience in transit signal and/or communication is sought for a part-time assignment that will include some travel along the eastern seaboard. The assignment will last at least 18 months. For more information, contact Karen Jehanian, P.E., at KMJ Consulting, Inc., 104 Woodside Road, Suite B303, Haverford, PA 19041; phone/fax: 610-896-1996; cell phone: 610-585-5954; e-mail: kjehanian@kmjinc.com.

C++ Developer - Creative Technologies International, a software and engineering application development firm, is seeking a part-time entry level C++ developer for a project to control electrical distribution equipment in a real-time engineering application. The ideal candidate will have a minimum experience of one year, a flexible schedule, the ability to work both at home and at the client site; experience with Borland C++ or MS Visual C++ Studio is preferred. For more information, contact Tracey O'Keefe, Creative Technologies International; phone: 610-566-8829; e-mail: tokeefe@create-tech.com; web site: www.create-tech.com.

Entry-level Engineering Assistants, Staff Engineers, Senior Staff Engineers - The Philadelphia Gas Works is seeking civil, mechanical, construction, and HVAC engineers at all levels for the Distribution/Field Service Departments to assist with design, planning, and implementation of gas main maintenance, repair and renewal work as well as new main and service construction, including assistance with direction and supervision of street crews.

Staff Level mechanical, electrical, and chemical engineers are sought for the Gas Processing Department to assist in the study, technical evaluations and operation of liquefaction and vaporization processes and the maintenance of these processes. Other responsibilities include: evaluations of present procedures, systems, and facilities to identify cost effective alternatives and recommend actions for improvement; directing activities of others assigned to assist with project implementation; and assisting with operations, maintenance, and capital budget development and implementation.

All positions require a minimum of an undergraduate degree in one of the engineering listed disciplines, good verbal communication skills and technical writing ability, availability to work out-of-hours and in all weather conditions, and a valid driver's license. Previous gas industry, construction, or utility experience is desirable. Additional coursework in business administration, project management and/or a graduate degree in engineering is preferred for staff and senior level positions. Previous supervisory experience and/or knowledge of federal, state, and local regulatory guidelines for natural gas industry is a plus for staff and senior level positions. For more information, contact Philadelphia Gas Works HRD Staffing - Attn:#2021-30, 800 W. Montgomery Ave., Philadelphia, PA 19122; fax: 215-684-6500; e-mail: hrrecruiting@pgworks.com.

Roy F. Weston, Inc. (WESTON), a leading infrastructure redevelopment service firm, has an openings for:

- a **Water Resource Professional** in their West Chester, PA office. WESTON is expanding its water resources engineering, planning, and waterways/sediments management practice in the Mid-Atlantic Region to support public and private sector client needs. Qualified candidates should have 3-12 years' experience in successfully executing projects in the areas of water resource systems planning, analysis and management. Candidates must have a BS degree in science, engineering, economics or planning and have relevant work references. USACE and/or EPA experience is a plus. Please send resume to: Roy F. Weston, Inc., Dept MB, 1400 Weston Way, West Chester, PA 19380; fax: 610-701-3795; Email: l.gillard@mail.rfweston.com; web site: www.rfweston.com.
- a **Certified Health Physicist** our their corporate West Chester, PA office. Candidate will assist clients in planning and executing site characterization and remediation projects, interfacing with federal and state regulators, and managing existing NRC licensed governmental, DOD, and DOE work with radioactive materials. Minimum Requirements: B.S. in Health Physics, Environmental Engineering, or other closely related field plus 10-15 years' experience. Good interpersonal, communication and computer application skills, extensive decontamination and decommissioning work experience, and project management experience are desirable. Excellent written and verbal communication skills are essential. Please send resume to: Roy F. Weston, Inc., Dept LS, 1400 Weston Way, West Chester, PA 19380; fax: 610.701.3795; Email: l.gillard@mail.rfweston.com; web site: www.rfweston.com.

The **SWE MISSION** is to:

- C stimulate women to achieve full potential in careers as engineers and leaders;
- C expand the image of the engineering profession as a positive force in improving the quality of life; and
- C demonstrate the value of diversity

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

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

SWE Philadelphia Section Newsletter
March-April 2002

Section Awards Banquet

Honor our 2002 Scholarship Award Winners
Wednesday, April 24, 2002 at the Wyndham Suites Valley Forge
RSVP by April 19 to Agnes Yeboah

Region E Conference

Explore *The Path Less Traveled* at the SWE Mid-Atlantic Region Conference
April 19 - 21, 2002
Radisson Hotel Bethlehem in Bethlehem, PA

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

Thank you!