

SENTINEL

Newsletter of
The Society of Women
Environmental Professionals of
Greater Philadelphia

JUNE 2002

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**For more information on SWEP,
check out our web site at
[http://www.swepweb.com/!](http://www.swepweb.com/)**

**Stay tuned: SWEP's new
and improved web site is
coming soon!**

A RECAP OF SWEP'S MAY MEETING

SWEP of Greater Philadelphia's May luncheon on alternative energy was held on May 15th at the University of Delaware's Goodstay Center in Wilmington. The program, sponsored by Conectiv and NRG Energy, outlined how alternative energy sources can decrease our dependence on nonrenewable resources such as coal and oil and are more efficient and less polluting. Specifically, fuel cells, wind power, solar energy and bioenergy options were addressed. The luncheon speakers were Richard K. Okine, Ph.D., Technology Director, Fuel Cells at DuPont Company; John Halley, Sales Director, Community Energy, Inc.; Allen Barnett, Ph.D., President, AstroPower; and Dorothy Abbot-Donnelly, University of Delaware Cooperative Extension.

Richard Okine, Ph.D., Technology Director, Fuel Cells, DuPont Company introduced the applications of fuel cell technology. DuPont's research and development is focusing on the proton exchange membrane (PEM) type of fuel cell. PEM fuel cells are manufactured in a wide range of different sizes to generate from 1 watt to 250 kilowatts, depending on the application (electronics, computers, cell phones, automobiles, forklifts, etc.) Price is the largest obstacle to be overcome for fuel cells to be available for commercial use. Currently, platinum is the only good catalyst and accounts for 30% of the materials cost for the cell. More information can be found on DuPont's web site at www.dupont.com/fuelcells.

John Halley, Sales Director, Community Energy, Inc. spoke on wind power as an alternative energy source. Community Energy's goal is to make renewable energy mainstream within the next 20 years. Wind energy is an extremely efficient source of generating electricity when the stations are properly designed and placed. North and South Dakota could power the entire United States alone; however, the transmission lines are not in place for proper distribution. As a result, the current focus is on developing stations

near populated areas. The energy generated by these stations is sold and incorporated into the overall electric grid for an area, thereby decreasing the dependence on fossil fuels. A number of these wind farms are operating in California and the Midwest, and there are two located in Pennsylvania (one on a ridge in the Poconos and one in western Pennsylvania, visible from the Somerset interchange of the PA Turnpike). An 11.5-megawatt turbine produces 4 million kilowatt-hours (kWh) annually, with the average household utilizing approximately 600 kWh per month. The turbines are made by Enron, with blades 112

feet long that spin slowly, keeping the noise level down. More information can be found at www.NewWindEnergy.com.

Allen Barnett, Ph.D., President, AstroPower introduced the latest on solar power energy. Dr. Barnett has 23 patents in silicon cell technology and has built a manufacturing plant that grows liquid crystal at a faster rate than competitors, making AstroPower's products less expensive. The fifth largest supplier in the world, the company sells solar panel systems for commercial and residential applications. Cost for a residential system is \$14,000 to \$24,000 per house, installed. The company contracts mainly through eight large homebuilders across the United States. Retrofit systems for existing homes will be sold at Home Depot starting some time this year. AstroPower recently held the dedication of its new building in Newark, Delaware. It is the largest solar-powered building in the world, generating 340 kW from its roof and sides.

Dorothy Abbot-Donnelly, University of Delaware Cooperative Extension, discussed how the byproducts of certain (mainly agricultural) processes can be used as fuel. BioEnergy is defined as "the conversion of complex carbohydrates into energy whether as a direct fuel source or as converted liquids or gases that are used for the fuel source," such as E85, an ethanol/gasoline mixture (used to replace MTBE). Rendering products, manure, methane from landfills, corn and soybeans can produce oils and other substances that are combustible and can be used for fuel. Biodiesel is created from soybean oil and/or waste grease generated by restaurants, which can then be refined and used to power the vehicles used to collect the grease from the restaurants. Currently, Ms. Abbot-Donnelly is developing two biofuel demonstration farms in Delaware where hybrid willow and poplar trees and switchgrass will be grown for use in power generation.

THANKS TO OUR MAY LUNCHEON PROGRAM SPONSORS



conectiv

Conectiv: Conectiv's vision is to be the best-performing energy provider on the East Coast. The company is built on the strengths and successes of two regional utilities—Delmarva Power & Light and Atlantic Electric, soon to include PEPCO. Conectiv is focused on two core energy businesses: Conectiv Power Delivery and Conectiv Energy. Conectiv Power Delivery serves more than a million homes and businesses in the regulated electricity and natural gas markets of Delaware, New Jersey, Maryland and Virginia. Conectiv Energy serves wholesale, industrial and large commercial customers within the deregulated energy marketplace. Conectiv takes its responsibility of environmental stewardship seriously, striving to meet or exceed all applicable standards for protecting the air, land and water in the areas it serves. In addition to a proactive environmental policy, Conectiv sponsors numerous environmental programs that underscore its commitment to the communities in which it operates.



NRG

NRG Energy, Inc.: NRG Energy, Inc. is a large independent power producer, with more than 30,000 megawatts in the United States and abroad. Founded in 1989, NRG develops, acquires and manages a variety of energy-related operations, including competitive energy production and cogeneration facilities, power marketing, district heating and cooling production, thermal energy production and resource recovery facilities. The company is headquartered in Minneapolis, MN and has regional U.S. offices in San Diego, CA; Pittsburgh, PA; Baton Rouge, LA and Wilmington, DE. Facilities in NRG's Mid-Atlantic Region include more than 1400 megawatts of generation in Pennsylvania, Delaware, Maryland and Virginia. NRG is committed to conducting business in an environmentally responsible matter by developing the most efficient, cost-effective solutions that provide the right balance between power generation and environmental impact.

SWEP'S BUSINESS MEETING RECAPS SUCCESSES OF PAST YEAR AND LOOKS TO FUTURE

The SWEP Greater Philadelphia Annual Membership meeting was held on June 5, 2002 from 12:00 noon until 2:00 p.m. at the offices of the U.S. EPA in Philadelphia. Over a buffet lunch, the 40-plus present were welcomed by Sonya Ward and Cyndy Yu Robinson, who gave an overview of the past year's activity. Sonya reported that SWEP of Greater Philadelphia was incorporated and wrote its own bylaws over the past year. Also, a successful National Forum was held, and interest in new chapters around the country was piqued. Sonya also gave the treasurer's report, stating that SWEP is in a good cash position with \$30,000 in cash on reserve for programs. She also stated that SWEP Greater Philadelphia currently has 406 members.

Officers and committee chairs reviewed the past year's accomplishments and discussed broad issues and plans for the coming year and years to come. First was Leslie Ledogar, with information on the Programs Committee. She mentioned upcoming events (listed on page 12) and that the Public Service/Mentoring subcommittee plans to hold more service opportunities, such as clothing and cell phone drives, in coordination with regular meetings.

Nancy Yannuzzi gave an update on the Special Events and Social Committee, reporting on the success of the past year's Touchstone Awards and reception. She noted that this year's Touchstone event will be held in October and said that the Committee hopes to organize more informal social/networking events in the coming year and reminded everyone of the golf outing scheduled for September. If anyone is interested in hosting or organizing a networking event in their area, please contact Nancy at nancy@airventductcleaning.com.

Ruth Forman spoke about the Membership Committee's efforts to build SWEP's member base, including outreach to those who have attended meetings but have not yet joined and to students and industry. She told the group about the new member breakfasts that the Committee began holding over the past year and encouraged new and established SWEP members to attend. She also stated that the Committee has been working on updating member contact info, which may be housed on the SWEP website in the future.

Blair Davis reported that the Newsletter Committee added a new member and a regular columnist over the past year. Blair has redesigned the Sentinel and tried to streamline it to avoid clogging everyone's email in-boxes with large documents. Future changes will include more features and more information on legislation and regulatory issues. Also, more of the newsletter's content may be moved to the web site.

Cyndy Yu Robinson, who has left Philadelphia for North Carolina, reported that the PR Committee has been performing in a rather informal way, preparing press releases and other information when the need arises. With Cyndy's departure, this committee will need a new chair. If you are interested in working on this committee, please contact Sue Barry at Susan.Barry@xlenvironmental.com.

Web Site Committee chair Jennifer Besa gave a demonstration of her new designs for www.swepweb.com. The new site is looking great and will contain loads of useful information for SWEP members. No word on when the new site will be complete.

Jeanne Dworetzky reported that the Nominations Committee had interviewed four prospective board members. These four, Darice Ellis, US EPA; Ruth Forman, Environmental Standards; Beth Davison Hyde, Roux Inc.; and Leslie Ledogar, Esq., Manko, Gold, Katcher & Fox, LLP were unanimously elected to the Board of Directors. Continuing Board members are Susan Barry, CPEA, ARM of XL Environmental; Jeanne Dworetzky, Esq. of Ballard Spahr Andrews & Ingersoll; Catherine Neary, Independent Consultant; Sherrerd Steele, P.G. of ePhase; Sonya Ward, P.G., C.P.G., C.G.W.P., of PMC Environmental; and Nancy Yannuzzi, CMR, of Air-Vent Duct Cleaning. Board Officers for 2002/2003 were elected by the Board of Directors

during a short meeting following the Business meeting. The Board Officers for 2002/2003 are: Susan Barry and Nancy Yannuzzi (Co-Chairs); Beth Davison Hyde (Secretary); and Sonya Ward (Treasurer).

In accordance with SWEP's bylaws, a new category of "Board Member Emeritus" was created for Board members who want to stay involved with the organization, but at a less-intense level. Two founding members of SWEP Greater Philadelphia have transitioned to Board Emeritus status: Brenda Hustis Gotanda, Esq. of Manko, Gold, Katcher & Fox, LLP and Sarah Hetznecker, P.G. of XL Environmental. Both Brenda and Sarah have been significant contributors to the continuing growth and success of SWEP Greater Philadelphia.

Following election of the Board of Directors, Cyndy led a round of brainstorming, during which many exciting ideas were raised. Many of these involved new projects that SWEP could undertake with its surplus cash. Possible ideas for use of the money include a scholarship program, sponsorship of science fairs or an environmental summer camp, and creation of SWEP promotional materials. Other ideas are welcome and should be forwarded to Co-Chairs Susan Barry (Susan.Barry@xlenvironmental.com) and/or Nancy Yannuzzi (nancy@airventductcleaning.com). There was also talk of obtaining "signature" sponsors who would sponsor SWEP's activities for a period of time, rather than sponsoring individual programs.

Three new committees were formed: the Finance/Fundraising Committee (planning an annual budget and soliciting corporate sponsors in a more organized manner), Scholarship Committee and Speakers Bureau. Meetings of the existing and newly-formed committees will be announced via email in the near future. Please contact Nancy Yannuzzi or Susan Barry if you are interested in joining or co-chairing a committee. Co-chairs will be elected by the committees during the first committee meeting for the 2002-2003 year.

We should all be proud of what was accomplished over the past year. The success of SWEP Greater Philadelphia depends on its members and their enthusiasm and involvement in the organization. Based on the well-attended and enthusiastic business meeting, it looks like this will be another great year for SWEP Greater Philadelphia!

A FEW WORDS FROM DEPARTING CO-CHAIR SONYA WARD

The past three years co-chairing SWEP Greater Philadelphia have flown by, and it has been an honor working with my past co-chairs and the SWEP Board and committee members. I am truly grateful to be able to call these amazing, creative, determined women my friends. I appreciate the support of all of the members of SWEP—every corporation, individual, government, non-profit and student member. You all contribute greatly to the continued success and growth of SWEP through your active membership and participation in the programs, National Forum and Touchstone Awards. The diversity of viewpoints and practice areas, the way we share information and the way we increase our network with other

environmental professionals every time we meet—these are the things that make SWEP Greater Philadelphia successful and make me proud to be associated with this dynamic organization! I look forward to the next steps of SWEP Greater Philadelphia under the capable leadership of our new Board Co-Chairs, Susan Barry and Nancy Yannuzzi!



THANK YOU CYNDY!

I would like to take a moment to thank Cyndy Yu Robinson for her devoted and enthusiastic efforts on the behalf of SWEP Greater Philadelphia. Only three short years ago, Cyndy joined SWEP. Cyndy was asked to join the Board in her second year and served as Secretary and then asked to co-chair the organization in 2001-2002. It has been a joy working with and becoming friends with Cyndy. She will be missed here in Philadelphia, but we look forward to seeing a new Raleigh, North Carolina SWEP chapter in the near future! Cyndy – we wish you all the best! —
Sonya Ward

BOARD MEMBERS AND OFFICERS FOR 2002-2003

Congratulations to SWEP's new officers and board members for the coming year!

Co-chair: Susan Barry, CPEA, ARM, XL Environmental

Co-chair: Nancy Yannuzzi, CRM, Air-Vent Duct Cleaning

Secretary: Beth Davison Hyde, Roux Associates, Inc.

Treasurer: Sonya Y. Ward, P.G., C.P.G., C.G.W.P., PMC Environmental

Board

Jeanne Dworetzky, Esq., Ballard, Spahr, Andrews & Ingersoll, LLP

Darice Ellis, U.S. EPA Region III

Ruth Forman, Environmental Standards

Leslie Ledogar, Esq., Manko, Gold, Katcher & Fox, LLP

Catherine Neary, Independent Consultant

Sherrerd Steele, P.G., ePhase



DON'T LET YOUR NETWORK FIZZLE WHEN THE SUMMER SIZZLES

BY LESLEY MALLOW WENDELL, PRESIDENT, ROSEWOOD CONSULTING GROUP

Many people struggle to maintain their networks during the summer months when professional and trade associations typically cease meeting. A break from these natural networking opportunities need not deprive you of the benefits you gain from meeting regularly with colleagues. Even if you are not engaging your network for a specific purpose (i.e., a career change, expansion of your client base, etc.), it's important to stay connected to key contacts. If you are involved in a job search or concentrating on new business development, it's even more important to maintain regular communication with people in a position to help. But, staying in touch when you don't have the ease of a scheduled meeting does require some attention on your part.

Begin the summer with a plan for networking. Determine which people are most critical to your goals—a new position, new business, mentoring or simply a place to turn for advice. Assess how often you need to stay in touch. If the groups you network with meet monthly and that schedule has been sufficient, you can maintain the same frequency during the summer. You will also need to figure out the best method of staying in touch. If you are in the midst of a job search, you may want to have at least two face-to-face meetings during the summer months interspersed with frequent email and phone contact. New business development might warrant the same approach. If you mainly rely on your network for advice, counsel and support, in-person contact coupled with phone and/or email works well—you may only need to meet in person one time during the summer.

You can develop creative ways to stay connected. I have one client who gets together with a networking group every six weeks during the summer. They rotate the location and who organizes the meeting—sometimes it's just for a drink after work; other times they meet for an early-morning breakfast. Not everyone can attend every time because of travel or vacation, but a core group participates. One of my own networking contacts suggested an early morning hike in a nearby state park in lieu of a breakfast meeting. It was a great way to catch up on business development and get some exercise in the process. (What's more, neither of us was obligated to "pick up the check.") Suggesting a walk in a park or on one of the Drives isn't going to be appropriate for every contact, but it might be a reasonable approach with people you know well.

Be creative—there are many good ways to keep in touch. It may take a little effort to keep your network in gear during the summer, but the payoff should be well worth the effort.



Rosewood Consulting Group provides customized coaching consulting and training to help organizations and individuals increase their effectiveness in today's changing environment. Rosewood consultants have a long history of providing organizational consulting with leading corporations and non-profits, enabling them to understand and appreciate a wide variety of work environments and cultures.

Lesley Mallow Wendell, President, has been helping groups and individuals enhance their leadership skills for over 20 years through her work in corporations, educational institutions and consulting organizations.

Lesley has been facilitating career and leadership development programs for groups and individuals since 1978. Prior to forming Rosewood Consulting Group, she was affiliated with OPTIONS, Inc., the Philadelphia-based career and human resource consulting organization for close to 10 years, most recently as its Executive Director. She has worked with individuals and groups at all organizational levels and has consulted with senior leadership teams, including CEOs.

Until her association with OPTIONS, she held positions in academia and advertising. For more than 10 years, she was Director of Career Services at Widener University. While there, she chaired the university's Committee on Multicultural Understanding and trained groups and individuals on issues related to diversity. Lesley has an undergraduate degree from the University of Pennsylvania and an M.S. in Human Resource Management from Widener University. She has been active in professional associations and community organizations, serving on the Board of WOMENS WAY and the Philadelphia Chapter of the Society for Human Resource Management. Lesley has been quoted frequently in local and national business publications and has appeared on local and national radio and TV. A frequent speaker to professional organizations, she is a member of the Forum of Executive Women and was selected by *Business Philadelphia* as one of 1997's Women to Watch.

Lesley can be reached at 610-892-8035 or by email at RosewoodGroup@aol.com.

TOUCHSTONE AWARD NOMINATIONS DEADLINE AUGUST 16, 2002

The SWEP Special Events Committee is currently accepting nominations for the 2002 SWEP Touchstone Awards. The SWEP Touchstone Awards recognize and honor outstanding women who have made or are making a significant contribution to the environmental field. Nominees for this award should be women who set a standard for quality and excellence in the environmental field. In addition, nominees should be distinguished by their professional commitment, leadership and achievement. We encourage nomination of distinguished women professionals from all areas of practice, including government, private industry and non-profit sectors.

A copy of the nomination form is included on page 17 of this newsletter. **The deadline for Touchstone Award Nominations is August 16, 2002.** If you have any questions about nominations or the reception, please contact Nancy Yannuzzi at nancy@airventductcleaning.com or Catherine Neary at cataharris19341@yahoo.com.



SUMMER FUN FOR THE KIDS: MAKE AN EDIBLE AQUIFER PARFAIT

This activity is a fun and easy way to help kids understand the geology of an aquifer. Help a child make his or her own aquifer parfait and, while he or she is at it, learn about confining layers, contamination, recharge and water tables. When you're done, you and the little one will understand about the geologic formations in an aquifer, how pollution can get into groundwater and how pumping can cause a decline in the water table. Plus, it's tasty!

Materials Needed:

Blue or red food coloring
 Vanilla ice cream
 Clear soda pop
 Crushed ice
 Variety of colored cake decoration sprinkles and sugars
 Drinking straws
 Clear plastic cups
 Access to Internet

Activity Steps:

1. Review "What is Groundwater" (<http://www.groundwater.org/GWBasics/whatisgw.htm>) and "Groundwater ABCs" (<http://www.groundwater.org/GWBasics/ABCs.htm>) on The Groundwater Foundation's web site.
2. Begin to construct the edible aquifer by filling a clear plastic cup 1/3 full with crushed ice (represents gravels and soils).
3. Add enough soda to just cover the ice.
4. Add a layer of ice cream to serve as a "confining layer" over the water-filled aquifer.
5. Add more crushed ice on top of the "confining layer."
6. Colored sugars and sprinkles represent soils and should be sprinkled over the top to create the porous top layer.
7. Now add the food coloring to the soda. The food coloring represents contamination. Watch what happens when it is poured on the top of the "aquifer." Keep in mind that the same thing happens when contaminants are spilled on the earth's surface.
8. Using your straw, drill a well into the center of your aquifer.
9. Slowly begin to pump the well by sucking on the straw. Watch the decline in the water table.
10. Notice how the contaminants can get sucked into the well area and end up in the groundwater by leaking through the confining layer.
11. Now recharge your aquifer by adding more soda, which represents a rain shower.
12. Review what you have learned as you enjoy eating your edible aquifer.

Edible Earth Parfaits was adapted from [Making A Bigger Splash](#), co-published by The Groundwater Foundation and the US EPA, Region VII. If you are interested in more activities based on environmental issues, see our [online catalog](#) or contact The Groundwater Foundation at 1-800-858-4844.



ENVIRONMENTAL SCIENTIST AND TOUCHSTONE AWARD WINNER RUTH PATRICK HONORED

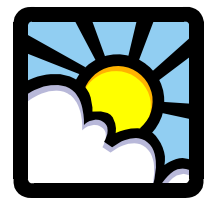
Snow, sleet and slippery roads could not prevent Villanova University's annual Mendel Award Dinner from being celebrated on January 19th. The Rev. Edmund J. Dobbin, Villanova's president, presented the 2002 Mendel Medal to Dr. Ruth Patrick, a pioneer in environmental science and founder in 1947 of the Limnology Department (now known as the Environmental Research Division) of the Academy of Natural Sciences in Philadelphia. Patrick is also a past recipient of SWEP's Touchstone Award.

In welcoming the guest of honor; her husband, Louis Van Dusen; and the other guests, the Rev. Kail Ellis, dean of Villanova's College of Liberal Arts and Sciences, noted that Dr. Patrick shared the title of pioneer with another biologist, Gregor Mendel, the 19th-century Augustinian friar who is known as the father of genetics and whose memory the Mendel Medal honors.

"Early in her career, [Dr. Patrick] was among the few biologists responsible for raising serious ecological concerns in our society," Father Ellis stated. "Her pioneering efforts in the field of limnology, the study of freshwater ecosystems, are responsible for the way in which the environmental health of rivers and streams is evaluated today."

Father Ellis also noted that Patrick, as a young woman in the 1920s, came up against the prevailing wisdom that women were not taken seriously as scientists, and overcame it. She earned a doctorate from the University of Virginia in 1934, and today, 68 years later, she remains honorary chair of the board of trustees of the Academy of Natural Sciences. The Academy named its Patrick Center for Environmental Research in her honor, since she founded it in 1947. She also is an adjunct professor at the University of Pennsylvania.

Article adapted from Villanova's alumni magazine.



HERE COMES THE SUN: ENERGY COOP LAUNCHES PROGRAM TO BUY SOLAR POWER

Ever think about switching to solar energy? Now, the Energy Cooperative, a Philadelphia-based nonprofit member-owned coop, has made it easier for people to install residential solar energy systems by buying the electricity produced.

Under the Cooperative's landmark residential solar energy buy-back program, coop members who use a photovoltaic solar system can earn 20 cents per kilowatt hour for the output from their system. According to the program's first participant, Andy Rudin, "My rooftop system provides clean, local electricity, and the Energy Cooperative's program makes it more affordable."

You might be surprised to know that solar power works quite well in Philadelphia, which gets as much as 70 percent of the solar radiation as very sunny spots like Tucson, Arizona. What's more, when demand for electricity is highest--in the summer--there is more sunshine to produce it.

To be eligible for the program, interested parties must be members of the cooperative and must purchase the coop's "EcoChoice 100" option, which is 100% renewable energy. The solar system must meet specifications developed by the Sustainable Development Fund's solar grant program, and there must be separate metering capability that measures the output of the system.

More information about the Energy Cooperative and its solar buy-back program can be found at www.theenergyco-op.com or by calling 215-413-2122. More information about the Sustainable Development Fund's solar grant program can be found at www.trfund.com/sdf/solarpv.



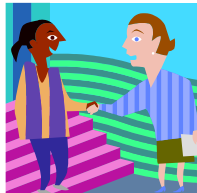
MEMBER NEWS

Lara M. Herzig has a new position at PECO Energy Company providing Compliance support to the transmission and distribution component of Exelon. Her new contact information is Lara M. Herzig, Environmental Analyst, PECO Energy Company - Environmental Services, 300 Front Street, Building #1, West Conshohocken, PA 19428; 610-832-6545.

Ruth A. Katz of AIG Environmental, has been promoted to Senior Risk Analyst. Ruth can be reached at 215-255-6223.

On Sunday, May 26, 2002 at 10:10 p.m., **Janna Lancaster** and her husband Dave welcomed Gillian Hope Lancaster. She weighed 6 lbs. 11 oz. Janna, Dave and Gillian Hope are doing great!

Cyndy Yu Robinson and her family have moved to North Carolina. Cyndy can be reached at US/EPA/OAQPS, Mail Code C339-01, Research Triangle Park, NC 27711; 919-541-0682; yu.cynthia@epa.gov.



SWEP PHILADELPHIA WELCOMES ITS NEWEST MEMBERS!

Amy Brezin, AmeriCorps*Vista/US EPA Region III
Valerie W. Breznicky, U.S. EPA Region III
Elizabeth Carr, U.S.EPA Region III
Christine Costello, Temple University
Colleen Grace Donofrio, Esquire, Babst Calland
 Clements & Zomnir

Elizabeth W. Heinhold, Esquire of Dechert
Renée McLaughlin, U.S. EPA Region III
Natalie Katz, Esq., U.S. EPA Region III
Pat Rector, NJ DEP
Roberta Riccio, U.S. EPA Region III



SWEP COMMITTEE PROFILE: THE MEMBERSHIP COMMITTEE

The membership committee works with various other committees to grow SWEP membership. It is responsible for welcoming new members via phone calls and membership breakfasts and introducing the new members to the various activities, benefits and committees of SWEP. The membership committee

helps to answer any membership questions that may arise. SWEP's membership committee also creates programs to attract new members, such as "Bring a Friend" to SWEP luncheon events.

The membership committee has been working hard this past year on getting membership information current and tracking down "lost souls"—individuals who were previous members and did not rejoin or those who have attended meetings but have not joined. In addition, the membership committee has worked to increase membership through its "Bring a Friend" program and to welcome new members with quarterly new member breakfasts. The membership committee is targeting the educational community and the industrial community to increase their membership over the next year.

The current co-chairs of the committee are Ruth Forman of Environmental Standards and Janna Lancaster of AIG. Other committee members include Sonya Ward, Susan Barry, Kathy Adams, Sharon Fang, Denise Molzahn, Pat Downing, Alice Wright and Alana Bixler. There's no better way to get to know new people than to get involved with the membership committee!

If you are interested, please contact Ruth Forman at rforman@envstd.com or Janna Lancaster at janna.lancaster@aig.com.

JOB OPENINGS

ATTORNEY 1: The Pennsylvania Department of Environmental Protection is seeking an entry-level attorney. Applicants should apply or at least contact the Department, by telephone, as soon as possible. Budgetary constraints dictate that the position must be filled quickly or it will be frozen. Employees in this class perform legal research confined to one, or a few fields. Initially, most time will be spent learning the techniques and requirements of governmental legal practice in the assigned areas. With more experience, the attorney will complete assigned legal tasks of a routine nature (e.g., preparing summaries of laws and cases; assisting higher-level attorneys in examining and preparing legal documents, briefs, pleadings and opinions; assisting higher-level attorneys in preparing cases for trial; researching, interpreting and applying laws, court decisions and other legal authorities in preparation of briefs, pleadings, indictments and other legal papers; assisting in the preparation of materials pertaining to proposed legislation; drafting proposed rules and regulations and reviewing rules, regulations and bulletins prepared by administrative officers for conformity to the law; under the supervision of higher-level attorneys, conferring with private citizens to advise them on state laws and regulations) with minimum supervision. Employees may be assigned legal tasks of a non-routine nature; however, such work is characterized by limited discretion and decision-making and is subject to close review by a higher-level attorney. Supervision is received from a higher-level attorney, who is ultimately responsible and accountable for the legal decisions resulting from the legal research done by employees in this class. Candidate must have knowledge of the application of legal principles to individual cases or problems, federal and state laws and regulations affecting the administration of the programs of the agency to which assigned, and court procedures and rules of evidence; ability to understand and interpret constitutional provisions, statutes, administrative regulations and precedents, to analyze fact, evidence and precedents and arrive at logical interpretations; to set forth findings of fact and decisions in written forms; and to prepare legal documents and records. Candidate must have graduated from an accredited school of law and have a certificate of admission to the Bar of the Supreme Court of Pennsylvania, or preparatory steps to become a member thereof. Continued employment is conditional upon the obtaining of such certificate of admission. Please respond to Louise Thompson, Esquire, Regional Counsel, Southeast Regional Office--Lee Park, 555 North Lane, Suite 6015, Conshohocken, PA 19428; 610-832-6300 (ph); 610-832-6321 (fax).

CIVIL ENGINEER: The Hankin Group, a dynamic real estate development company located in Exton, is seeking a civil engineer to work directly with the executive vice president of engineering. Responsibilities include, but are not limited to, thoroughly understanding the company's approach to land planning and development; overseeing site improvements, earthwork, sewer, water, E&S inspection; cultivating and maintaining productive business relationships with various townships; participating in the preparation of township presentations regarding future development approvals; maintaining long-term positive business relationships with existing sub-contractors. The candidate will have 3 to 5 years prior experience in site design & land development approval process; PE preferred. To apply for this position, please e-mail your resume, cover letter and salary history to resumes@hankinggroup.com.

DEVELOPMENT ASSISTANT: The Schuylkill Center, the nation's first urban environmental education center, is seeking a development assistant. The Center serves more than 50,000 people annually in the Greater Philadelphia area through our mission of environmental education and land stewardship. Responsible to the director of development, this position provides an excellent opportunity for an entry-level professional with tenacity and drive to learn or a more seasoned professional from a small shop interested in working in a team setting. The position offers the

opportunity to be a full participant in every facet of a growing development program, including non-membership direct mail appeals; special events; donor cultivation; corporate relations; grant research, writing and reporting; and prospect research. The development assistant plays a critical role in helping achieve annual fundraising goals for the organization, especially as the primary person responsible for membership development and cultivation efforts. Candidate must have excellent interpersonal skills to effectively interact with staff, trustees, donors, prospects and foundation members; excellent oral and written skills to present information, respond to questions, and contribute to written proposals and reports in a professional manner; dedication to exemplary customer service; ability to take initiative and pay close attention to detail in monitoring information and follow-up; passion for our organizational mission of urban environmental education, habitat restoration, and wildlife rehabilitation, and its interpretation through our art program; working knowledge of PC-based word processing, database & spreadsheet applications; and experience with Raiser's Edge is a plus. We will consider any combination of education and experience that provides the necessary skills, knowledge and abilities for this position. Salary commensurate with experience. Immediate start date possible. Please direct inquiries to Liz Einsig, Director of Development, The Schuylkill Center for Environmental Education, 8480 Hagy's Mill Road, Philadelphia, PA 19128; leinsig@schuylkillcenter.org; www.schuylkillcenter.org.

ENERGY EDUCATION COORDINATOR: The Sustainable Development Fund (Philadelphia) is seeking an energy education coordinator. Will be responsible for coordinating the public education work of SDF grantees/contractors funded by the SDF public education grants and other SDF grants and programs. This person will also assist SDF staff in coordinating public education and outreach efforts to maximize the effectiveness of other SDF programs, including the core investment program, the solar photovoltaic grant program and the wind program. Tasks will include supervising all public education work performed by contractors and grantees; identifying and developing opportunities for public education and outreach in all SDF programs and activities; coordinating partnerships among the grantees and contractors as appropriate, including facilitating quarterly meeting with grantees, contractors, and other interested organizations; developing an in-depth process to evaluate the public education activities and their results and help shape future public education strategies. The person accepting this position will be a part-time contractor to the SDF. We expect the position to require approximately two days per week, though the work schedule will vary throughout the year. The total compensation for this work will be subject to negotiation and will be in the range of \$35,000. The application documents must be received by SDF no later than Wednesday, July 3, 2002 at noon. For more information, please see the SDF website at www.trfund.com/sdf.

GEOLOGIST: PMC Environmental (PMC) has a staff of 50 employees, which consists of geologists, ecologists, engineers and scientists. PMC's main office is located in Exton, PA, with other offices in Rockville, MD, Washington, DC and Los Alamos, NM. PMC specializes in assisting industry and the government in a responsible, efficient and competitive manner. We specialize in optimizing solutions for our clients on a wide range of environmental engineering and management projects. PMC's services include: Ecological and Human Health Risk Assessment; Site Investigations; Data Validation and Management; Engineering Studies; Design and Cost Estimates; Ordnance and Explosives Investigation/ Cleanup; Radioactive Waste Site Investigation/Cleanup; and Radwaste Disposal. An entry-level candidate is sought as a full-time field geologist in the Exton office to perform field investigation tasks, including logging of boreholes, aquifer tests, collection of environmental samples and environmental assessments; assist in preparation of project work plans; compile and interpret hydrogeologic and chemical data collected in the field (including boring logs, cross-sections, potentiometric surface maps, and ground water and soil isoconcentration maps); assist in preparation of reports presenting field efforts completed and recommendations for further work, if necessary; and assemble project deliverables. Bachelors or Masters Degree in geology and 0-3 years experience required. Knowledge of Excel and Word desired. Extensive travel required at times. PMC offers an outstanding work environment, competitive pay and comprehensive benefits. If interested, please contact Cathy Putz, Human Resources Coordinator, at 610-280-5023 or fax resume to 610-280-5050. EOE.

PROJECT GEOLOGIST: Environmental Resources Management, recognized worldwide for environmental leadership, is seeking a Project Geologist to join our consulting firm in Exton, PA. The successful candidate will have held the responsibilities of a site remediation geologist with 5-8 years of experience and will be an independent contributor with competency in all aspects of site remediation. Must have the ability to independently complete preliminary assessments, remedial investigations and investigation reports. Will be able to manage technical scope/budget/schedule responsibility for projects. Will mentor junior staff and delegate work assignments. Will assist in the preparation of proposals and competitive proposal presentations. Knowledge of NJ Technical Requirements and Pennsylvania Act 2 required, Geology or Hydrogeology degree preferred and a P.G. a plus. If interested, E-mail is the preferred response method. To ensure prompt attention, when submitting your resume, please indicate Job EXT 008-02GS in your subject line. Email resume to hr_resumes@erm.com or mail/fax to Human Resources EXT 008-02GS, ERM, Inc., 855 Springdale Drive, Exton, PA 19341; Fax: 610-524-3434. EOE/AEE.

VICE PRESIDENT OF DEVELOPMENT: Earth Force is a national, youth-driven, nonprofit organization that engages young people ages 10-14 in solving local environmental problems through active, civic participation in their community. Earth Force provides young people the skills and knowledge to turn their passion for the environment into lasting

change in their communities. Our home office is located in Alexandria, Virginia, and we have nine offices across the country dedicated to building locally based organizations and programs. Lead the design and oversee the implementation of a comprehensive and diversified fundraising plan for a dynamic, growing \$3.6 million non-profit organization. This senior-level professional will be an integral part of the management team of Earth Force with involvement in organizational development and strategic planning, as well as program design, marketing and communications. The vice president will report directly to the president. Work in concert with senior staff, Board members and friends of the organization to raise funds for Earth Force. Specific duties include working with senior staff and Board to develop and execute our fundraising plans; overseeing a staff of three; providing assistance and advice to the local Earth Force offices and their Boards of Directors; serving as a member of the senior management team of Earth Force; and researching and preparing proposals for individual, foundation, corporate and government donors. This is a hands-on position requiring extensive writing, cultivation and coordination. The ideal candidate will have an entrepreneurial spirit and demonstrated development, writing, communication and presentation skills. She/he will be exceptionally organized and have experience working with VIPs. He/she will bring a passionate commitment to youth, educators, the environment and community change. She/he will be self-motivated, aggressive, provide exceptional follow-through and comfortable soliciting the funds needed to further the work of Earth Force. She/he must have a proven record of development success. Salary based on experience; full benefits and potential bonus. To apply, fax resume and letter of interest to 703-299-9485 or mail to Earth Force, 1908 Mt. Vernon Ave., 2nd Floor, Alexandria, VA 22301, attn. Development.

The following positions are available with ARM Group Inc.

CIVIL ENGINEER: 2-6 years experience in land development engineering, stormwater and sediment control, sewage, water supply, earthwork and some CAD capability. B.S. or M.S. in civil engineering required. EIT or P.E. is desired.

CIVIL/SOLID WASTE ENGINEERS: Junior-level (1 to 3 years experience) and mid-level (4 to 10 years experience) civil/solid waste engineers for landfill-related projects, including permitting, design, compliance support and construction oversight. Working knowledge of state and federal regulations required. Specific experience with landfill gas projects is preferred. B.S. or M.S. in civil, geotechnical or environmental engineering required. EIT or P.E. is desired.

ENGINEERING TECHNICIANS/FIELD INSPECTORS: Experience in drilling, earthworks and construction inspection required. Certification and experience with compaction testing and concrete testing are preferred. Experience with geosynthetics and landfill construction is a plus.

PROJECT HYDROGEOLOGISTS: 2-5 years of consulting experience. Position will combine field and office work; projects will include environmental investigations and site remediation. Candidates shall have a working knowledge of PA DEP regulations concerning solid waste management, storage tanks and environmental remediation standards. Qualified candidate will possess a B.S. or M.S. degree in geology or hydrogeology; candidate shall have some experience with fate/transport/attenuation models. Strong PC skills are required, including some technical modeling experience.

ARM was formed as an earth resources engineering and consulting firm to serve an array of commercial, government and industrial clients. The firm is composed of civil and geotechnical engineers, hydrogeologists, geophysicists, soil scientists, environmental scientists, natural resource managers, GIS specialists and environmental planners. It has had extensive experience throughout the United States, as well as substantial international experience. ARM constantly strives to provide economical and practical solutions to its clients' problems. Moreover, they are perhaps best known for prompt service, with work always completed on time and on or under budget. Integrated by a strong management approach, ARM's consulting practice is focused on four principal service areas: environmental services; geotechnical engineering and related services; natural resources management; and water resource planning and management.

For all positions, contact Rob Kitchen, ARM Group Inc., 1129 W. Governor Road, P.O. Box 797, Hershey, PA 17033-0797; 717-533-8600; 717-533-8605 (fax); email: rkitchen@armgroup.net.

The following two positions are available with the mid-Atlantic regional office of Roux Associates, Inc., located in West Deptford, New Jersey:

STAFF/PROJECT LEVEL ENGINEER/GEOLOGIST: Positions require 2 to 8 years of environmental consulting experience in soil and groundwater investigations and remediation. Experience with remedial system

installation and O&M is a plus. Excellent writing and communication skills required. Competitive salary and benefits.

ENTRY LEVEL GEOLOGIST/ENGINEER: Opportunity for 2002 graduates with a degree in geology or engineering with excellent communication and writing skills. Competitive salary and benefits.

Roux Associates, Inc. is a privately held national environmental consulting, engineering and management firm. Founded in 1981, with offices in New York, New Jersey, Massachusetts, Georgia, Illinois and West Virginia, the firm provides a wide variety of environmental management services and is involved with many high-visibility projects, most of which are driven by CERCLA, RCRA, UST, FIFRA, CWA, CAA and property transfer regulations, as well as related litigation. Services include site investigation, risk assessment, conceptual and final remedial design, regulatory permitting and compliance support, regulatory agency negotiation, litigation support and construction management. Roux consults primarily for industry and derives most of its work from repeat clients and client referrals. Our success is attributed to consistently delivering high quality, innovative and responsive service.

For either position, please send resume in confidence to Administrator of Human Relations, Roux Associates, Inc., 1222 Forest Parkway, Suite 190, West Deptford, NJ 08066; 856-423-8800 (phone); 856-423-3220 (fax).



UPCOMING EVENTS

June 26, 2002: PA DEP Southeast Regional Roundtable Meeting. 9 to 11:30 a.m. The topic will be issues surrounding the gasoline additive methyl tertiary butyl ether (MTBE): potential sources, the challenges MTBE presents, and what is being done in response. The meeting will begin with an update on DEP's Environmental Futures Planning Process. Main Conference Room, Southeast Regional Office, Lee Park, Suite 6010, 555 North Lane, Conshohocken. Pre-register no later than June 21 by leaving a message for PA DEP Community Relations Coordinator Lynda Rebarchak at 610-832-6219.

July 9, 2002: NJ SWEP's "Southern New Jersey Networking Luncheon & Cellular Phone Drive." Come meet other NJ SWEP members, and bring your old, unused or broken cell phones to give to the Donate-A-Phone program, which refurbishes phones and provides them free of charge to victims of domestic violence. 11:45 a.m. to 1:15 p.m. Champps Americana Restaurant, 25 Route 73 (on Rte. 70 and 73 Circle), Marlton, NJ. \$10 per person (payable at the restaurant). R.S.V.P. by July 5th to Linda Esposti at LindaEsposti@worldnet.att.net.

September 18—20, 2002: 2002 Environmental Innovations Summit. Crystal City Hilton, Arlington, VA. Presented by the Environmental Performance Institute, in association with more than 35 of the nation's leading environmental organizations. This landmark event will bring together corporate leaders, environmental stakeholders and government officials to discuss the key issues and the latest innovations in environmental management. The agenda includes training in environmental management systems, regulations and permitting, measurement and process redesign, environmental technologies and environmental communication and reporting. Key speakers include the Honorable James Connaughton, Chair, White House Council on Environmental Quality, and Susan Keiner, National Academy for Public Administration. To register, contact James Lewis at 703-519-6270 or visit www.performanceweb.org.

September 2002: SWEP's annual golf outing. Exact date and location to be announced. Anyone interested in assisting with and/or sponsoring gift items or cash donations for this special event, please contact Sue Barry at 800-327-1414 or Catherine Harris at 610-594-0277.

September 22, 2002: "Make It a Day for WOMENS WAY." 11:00 a.m. to 5:00 pm. Rittenhouse Square, Philadelphia. Part of the ongoing series of events celebrating WOMENS WAY 25. Entertainment, displays, refreshments, educational activities and more for women, men and kids of all ages.

September/October 2002: SWEP luncheon program on endocrine disruptors, in conjunction with Breast Cancer Awareness Month. Sponsorship opportunities are still available. Interested sponsors should contact Anne Gaspar ASAP at annegaspar@earthlink.net or 609-448-2773. More details to come.

October 2002: SWEP's annual Touchstone Awards reception, to honor outstanding women in the environmental field. More details to come.

October 10, 2002: NJ SWEP's luncheon program "When Does Bioremediation Work? Evaluating Sites for Biological Remedies." Sponsored by Envirogen, Inc. 11:30 a.m. to 1:30 p.m. Bring your own lunch. Location: Envirogen, Inc., 4100 Quakerbridge Road, Lawrenceville, New Jersey. R.S.V.P. by Thursday, October 3 to Gail Helfrick at 609-259-4091 or ghelfrick@qmg-inc.com. If you leave a message or send an e-mail, please provide your name and telephone number so that we may contact you in the event of a schedule change.

November 2002: SWEP luncheon program on natural capitalism. Sponsorship opportunities are still available. Interested sponsors should contact Anne Gaspar ASAP at annegaspar@earthlink.net or 609-448-2773. More details to come.

REGULATORY NEWS

The Pennsylvania Department of Environmental Protection's **Land Recycling Program** has revised its **Technical Guidance Manual**, effective June 8, 2002. The revised TGM can be accessed on-line at the guidance web page (www.dep.state.pa.us/dep/deputate/airwaste/wm/landrecy/manual/Manual.htm).

PUBLIC SERVICE OPPORTUNITIES

Adopt a Bison: For just \$40, you can give Penny, Prairie Star or Thunderfoot the promise of a permanent home on the range. Visit <http://nature.org/adopabison> and click on "How You Can Help." The Adopt-a-Bison program is managed by volunteers from the Oklahoma chapter of the Nature Conservancy. For more details, email Grant Gerondale at ggerondale@tnc.org.

Click for the Rainforest: Care2.com offers a quick, easy way to help save rain forests with a simple click. Visit the www.rainforest.Care2.com web site and click on one of the habitat buttons up to once per day. Each click generates a donation, paid by Horizon Organic, Nature Valley and SeaWorld, to the Nature Conservancy's Adopt An Acre program. 100% of the money you generate will be donated to The Nature Conservancy.

Donate Used Cell Phones: For those of you who missed SWEP's past cell phone drives, there are still ways you can donate your old, unused, obsolete or broken cell phones. Phones can be mailed to CALL TO PROTECT c/o Motorola 1580 E. Ellsworth Road, Ann Arbor, MI 48108. If you prefer to drop off your phone, collection points are available at www.donateaphone.com/where.cfm. The Donate-A-Phone program refurbishes donated phones and provides them free of charge to victims of domestic violence (please include batteries and chargers if available). The phones are pre-programmed with emergency numbers. Neither the recipient nor the phone's donator will be charged for calls made.

AUGUST SENTINEL DEADLINE

Please send story ideas, news, job openings, photographs and other material for the *Sentinel* to Blair Davis at bdavis@pecphila.org. For inclusion in the August 2002 issue, text must be received by Monday, August 5th.

**SOCIETY OF WOMEN ENVIRONMENTAL PROFESSIONALS
OF GREATER PHILADELPHIA**
CHANGE OF ADDRESS FORM



Help us keep in touch with you! If you have changed jobs or moved, or your contact information has changed in any way, please let us know. Fill out this form, print it out and mail it to Sonya Ward at PMC Environmental, 835 Springdale Drive, Suite 201, Exton, PA 19341. You can also email it to Sonya at SWard@pmc-mail.com.

Old Information

Name: _____
Title: _____
Organization: _____
Address: _____
Phone: _____
Fax: _____
E-mail: _____

New Information

Name: _____
Title: _____
Organization: _____
Address: _____
Phone: _____
Fax: _____
E-mail: _____
Date new info takes effect: _____

Comments



**THE SOCIETY OF WOMEN ENVIRONMENTAL PROFESSIONALS
PHILADELPHIA CHAPTER
2002 TOUCHSTONE AWARDS
NOMINATION FORM**

The SWEPE Touchstone Awards recognize and honor outstanding women who have made or are making a significant contribution to the environmental field. Nominees for this award should be women who set a standard for quality and excellence in the environmental field. In addition, their professional commitment, leadership and achievement should distinguish nominees. We encourage nomination of distinguished women professionals from all areas of practice, including government, private industry and non-profit sectors. Questions should be emailed to Catherine Neary at cataharris19341@yahoo.com or Nancy Yannuzzi at nancy@airventductcleaning.com.

Nominations must be received by August 16, 2002.

Nominee: _____
 Title: _____
 Address: _____
 City/State/Zip: _____
 Phone: _____ Fax: _____
 E-mail: _____

Please briefly describe (in 50 words or less) how this nominee satisfies the Award criteria and why this nominee should receive the 2002 Touchstone Award.

Please submit a curriculum vitae or biographical summary (if available) for the nominee with this nomination form. Electronic, fax, or mailed forms are acceptable.

Your Name and Contact Information (optional): _____
 How You Know the Nominee: _____

Please return nomination form by fax, mail, or email to:

**SWEPE Greater Philadelphia
 c/o PMC Environmental
 835 Springdale Drive, Suite 201
 Exton, PA 19341
 Fax: 610-862-5050
sward@pmctechnologies.com**