

# the news



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National ASCE Central Number 1-800-548-ASCE • Toll Free

Vol. 75-3

## Our 89th Year

October, 2002

### NOVEMBER JOINT DINNER MEETING

Philadelphia Section, American Society of Civil Engineers  
and the Phila. Chapter, American Institute of Architects (AIA)

### THURSDAY, NOVEMBER 21, 2002

THE UNION LEAGUE OF PHILADELPHIA • 140 South Broad Street • Philadelphia, PA 19102

Cocktails – 5:30 p.m. • Dinner – 6:30 p.m. • Meeting – 7:30 p.m.

Parking available at discount rate at Midtown Parking Garage, 1450 Sansom Street (directly across the street from the Union League.) Discount coupons will be available at the meetings.

**SUBJECT:** The Athens Metro

**SPEAKER:** William G. Stead, P.E., Transportation Consultant

19122+1325 36

**RESERVATIONS MUST BE SUBMITTED BY FRIDAY, NOVEMBER 15, 2002.** Please send your check for the number of attendees @ \$30.00 per member or guest, \$15.00 per ASCE Student Members, payable to the Phila. Section, ASCE, P.O. Box 58186, Phila., PA 19102-8186; or call the Electronic Message Center: 1-800-461-4190 (Open 24 hours/day) or e-mail the Section at [info@asce-philly.org](mailto:info@asce-philly.org).

**SPECIAL FEATURE: VILLANOVA UNIVERSITY NIGHT.** The ASCE Student Chapter, Alumni and Faculty of the Civil Engineering Department of Villanova University, will be honored at this meeting. All Students, Faculty and Alumni are cordially invited.

The Government of Greece has undertaken an extensive program to construct two subway/metro lines in the city of Athens. The city has experienced significant traffic congestion and air pollution problems, and the Metro is anticipated to offer a better mobility option for commuters and visitors in the ancient city, as well as to provide efficient transportation for the upcoming Olympic Games which Athens will host. The \$2.5 billion (US) multinational effort to construct the Metro is the largest public works project in Greece's history. Mr. Stead served the Greek Government as the first Chief Executive Officer of the Metro for its first three years, from 1992 to 1995. At our meeting, he will relate his many first-hand experiences in the difficulties of design and construction of the Metro in the ancient city.

Mr. Stead began his career in transportation in 1971 with the local firm of Louis T. Klauder and

(Continued on Page 2)

### TECHNICAL GROUP ACTIVITIES

#### Structures Group

**November Luncheon Meeting**

**DATE:** Thursday, November 14, 2002

**12:00 Noon to 1:30 P.M.**

**COST:** No charge for the lecture.

**LUNCH EXPENSES:** Engineers \$15 and

Students \$8 per person.

**LOCATION:** Conference Room at STV Inc.,  
1818 Market St., Suite 1410, Phila., PA 19103

**SUBJECT:** "Recent Developments in Seismic  
Design of Highway and Railway Bridges"

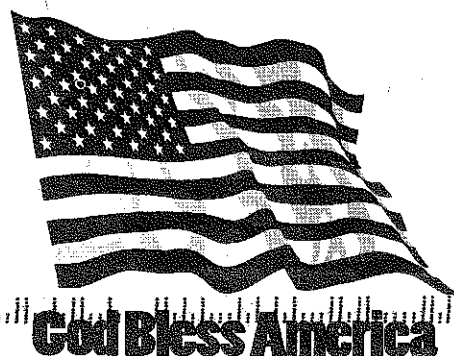
**SPEAKER:** Dr. M. Ali Khan, Ph.D., P.E.,  
Manager Bridge Design, STV Inc. and Session  
Chair for Seismic Design, at ASCE Structures  
Congress 2002, Denver Colorado

The speaker will present current trends in the state of art and the recent changes in seismic provisions in the AASHTO LRFD Code for highway bridges and in the AREMA code for railway bridges.

Also, case studies of bridges, applications of various seismic analysis computer softwares and "Ductile Detailing" of bridge substructures, will be discussed. Lunch will be served.

**RESERVATIONS** are required as the seating is limited. Lunch will be served. Contact: **Elaine R. Bohanan**, STV Philadelphia Office, Tel. (215) 832 3540 or e-mail [bohanaan@stvinc.com](mailto:bohanaan@stvinc.com) with copy to [khana@stvinc.com](mailto:khana@stvinc.com). Please mail ASAP a check of \$15 to: Philadelphia Section ASCE, P.O. Box 58186, Philadelphia PA 19102-8186.

(Technical Groups Continued on Page 2)



### TECHNICAL GROUP ACTIVITIES Delaware Valley Geo-Institute (DVGI)

**November Dinner Meeting**

**DATE:** Tuesday, November 12, 2002

5:30 PM Social Hour, 6:30 PM Dinner,

7:15 PM Presentation

**COST:** \$25 per attendee; students \$5 for the first  
20 students

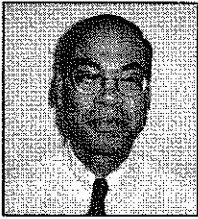
**LOCATION:** Wyndham Valley Forge, 888  
Chesterbrook Blvd., Wayne, PA 19087

**SUBJECT:** "Update on Geotechnical and  
Construction Aspects of the Braddock Dam  
Innovative In-The-Wet Project"

**SPEAKER:** Ms. Kathleen Bensko, P.G.,  
Construction Geologist, Pittsburgh District, U.S.  
Army Corps of Engineers

Pittsburgh is currently the largest inland waterways port in the United States. The new dam at Braddock will be an important new component of the region's navigational infrastructure. The new Braddock Dam is being built using innovative in-the-wet construction techniques. The dam's construction procedure called for fabricating two large concrete segments, at an off-site location, which consist of reinforced concrete shells. The foundation for this project consists of eighty-nine reinforced concrete drilled shafts to carry the weight of the dam and transfer loads into bedrock.

Call Ms. Lee Stanish at (609) 277-7932 or (610) 277-2950. Send check payable to DVGI, to Frank Vibbert, Schnabel Foundation Co., Inc., 315 Hertzog Blvd., King of Prussia, PA 19406 to confirm reservation.



## THE PRESIDENT'S MESSAGE

### Volunteering in Civil Engineering ("Voice")

Dear Fellow Members in ASCE,

I hope you and your families had an enjoyable summer and are in good health. I hope you will continue to support our Section, Reading Branch, YMF and especially, the Student Chapters – the future generation of outstanding Civil Engineers and leaders.

Our great Section is blessed with hardworking group of Officers, Board Members and Committee Chairs and Members, from the President-Elect down to the Committee Members, from the Young Member Forum (YMF) to the Student Chapters and their respective Faculty Advisors. The new Board worked hard in putting together a program for 2002-2003. The Board started working in June 2002, a month after the installation of new officers and board members.

We had a great turnout at our Section's very first "greet and meet" session among new Officers and Board Members of the Section, Reading Branch, YMF and Student Chapters, including Faculty Advisors, on September 26, 2002. The purpose of the session was primarily to get to know each other and kick off the networking and communication process among the groups. After the informal session, **Chuck Pennoni** of Pennoni Associates addressed the assembly with inspiring and motivational remarks, especially for the young members and students.

On October 17, 2002, the Phila. Section held its first general membership meeting of 2002-2003 in a new venue, The Union League of Philadelphia. Members from other ASCE Sections like Colorado, Rhode Island, Ohio, Delaware and New Jersey attended the meeting. **Dr. Fred Gurney**, CEO and President of MAGLEV, Inc. gave an informative presentation regarding the many issues, including the political and technical challenges facing the proposed Pennsylvania Maglev Project in Pittsburgh. See article included this issue of THE NEWS for details on the presentation.

On **November 21, 2002** the Section will travel, through the power of video and computer media, to the **Athens Metro** in Greece. **Mr. William Stead** will lead and guide us, and talk about the construction and operation of the \$2.5 billion project. Please see page one of this issue of THE NEWS about the speaker and the project.

**Bob Wright** and I were honored to represent the Philadelphia Section at the Reading Branch's celebration of the 150th Anniversary of ASCE on October 24, 2002. Congratulations and more power to the Reading Branch and to its Officers and Members, under the leadership of **Gerry Donnelly**.

Lastly, I was honored to represent the Section in the forthcoming celebration of our good society's 150th Anniversary in Washington, DC beginning on **November 3, 2002**. I am proud to carry the Section's banner in the celebration of this important milestone.

Happy Thanksgiving Holiday to All!

Think VOICE.

Sincerely,

Ruben D. David, PE, President  
Philadelphia Section, ASCE

**Editor's Note:** Have you observed how much Ruben has matured since the last issue of THE NEWS?

## November Joint Dinner Meeting

(Continued from Page 1)

Associates, where he was involved with a variety of planning, engineering, operations and maintenance assignments. He later served as a Senior Manager with four transit agencies in the United States (including a short stint with SEPTA) and was General Manager of the San Francisco Municipal Railway for five years. As a consultant, he has directed both domestic and international transit projects, and has worked in such diverse places as Great Britain, Hong Kong, India, Taiwan, Brazil, Turkey and Israel, as well as Greece. He has taught at Northeastern University, Golden Gate University and California State University.

Mr. Stead holds Masters degrees in both Civil Engineering and Archaeology from the University of Pennsylvania. He obtained his Bachelors degree in Civil Engineering from Penn in 1969 and was a Ford Fellow in transportation. In addition to his engineering activities, he has directed several Phase I and II archaeological surveys and excavations, and his areas of interest are the prehistory of North America and the Greek neolithic.

## Volunteers Needed – Engineering Management Technical Group

Volunteers are needed to help plan activities for the Engineering Management Technical Group. If interested, please contact co-chairmen **Bill Mulloy** at (215) 656-6583 or **Dennis MacBride** at (215) 568-6500.

## THANKS TO OUR SPONSORS

As you may have seen in last month's edition of THE NEWS, we have expanded our Section Sponsorship program this year. And, as you can see elsewhere in this edition, many of our local firms have responded to this. These firms have made the commitment and their business cards are included in the pages of THE NEWS.

If your firm has not already decided to become a Section Sponsor, we hope you will review the many benefits available to our sponsors, and we welcome your support. We are sure you would like to see your firm's card along with the others in THE NEWS.

To those of you have decided to become a Section Sponsor, we offer our collective "Thank You", and we look forward to your continued support.

## SECTION WEB SITE!

Our Section's web site has taken on a new look! Check us out at [www.asce-philly.org](http://www.asce-philly.org) Make sure you bookmark this site to check on our latest meetings and events, links and much more! Comments and/or suggestions? Please contact us either via our Electronic Message Hotline at 1-800-461-4190 (24 hours a day) or e-mail at [info@asce-philly.org](mailto:info@asce-philly.org).

### PHILA. SECTION, ASCE OFFICERS 2002-2003

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Email: [jostone@deloitte.com](mailto:jostone@deloitte.com)

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**COPY DEADLINE FOR  
NOVEMBER 2002 ISSUE  
NOVEMBER 15, 2002**

## YOUNGER MEMBER FORUM NEWS

by Michael McAtee, P.E.

Forum Editor and Vice President 2002-03

### Younger Member Forum

Kristen Bowman, PE, 2002-03 President

Flow Science Incorporated  
Two Penn Center, Suite 200  
Philadelphia, PA 19102  
(215) 854-6445  
kbowman@flowscience.com

Young engineers or college students who would like to become part of the YMF and to be added to the announcement list, please contact **Alyson Lester**, Urban Engineers, Inc. at [secretary@ymfphilly.com](mailto:secretary@ymfphilly.com) or at (215) 922-8080. There are no fees to join!

### Recent Accomplishments

On **October 7, 2002**, the YMF kicked off its college outreach program. **Christopher Menna**, City of Philadelphia Department of Streets, **Kristen Bowman**, Flow Science, Inc., and **Tom Brady**, Vollmer Associates, spoke to 35 students at Villanova University about issues on the job market, professional licensing and graduate studies. Upcoming panel discussions are planned for Drexel and Widener. If you would like to be part of the panel and share your knowledge with the Engineers of the future, please contact **Tom Brady** at [tbrady@vollmer.com](mailto:tbrady@vollmer.com) or at (610) 444-6522.

### Upcoming Events

On **Saturday, November 9, 2002**, the YMF conducted another volunteer event with the Friends of the Wissahickon (FOW). The YMF has been volunteering with the FOW for the past few years and each event has been a special way to improve the environment. For those who enjoy the outdoors, this was a great opportunity to do something rewarding and learn more about Wissahickon Park, one of Philadelphia's great treasures. The YMF provided snacks and drinks for all participants.

A week later, on **Saturday, November 16, 2002** the Philadelphia YMF will join up with the Lehigh Valley YMF for a morning tour of the D.G. Yuengling and Son Brewery in Pottsville, PA. The tour will begin at 10:00AM and is free of charge. If you would like to attend, please contact **Mike McAtee** at (215) 922-8081, extension 1622, or at [mjmcaatee@urbanengineers.com](mailto:mjmcaatee@urbanengineers.com). We hope you can join the YMF for an enjoyable tour of "America's Oldest Brewery"!

Events planned for the upcoming months include technical meetings on the Fairmount Water Works reconstruction and the Route 202 construction project in King of Prussia. We are also currently planning the 7th Annual YMF Winter Social, which is tentatively scheduled for January 2003. Details of these events will be disclosed in the upcoming YMF THE NEWS article, so stay tuned!

### Member Spotlight

The purpose of the member spotlight is to introduce a fellow YMF member to the Delaware Valley Engineering Community.

**Al Federico, P.E.** is a Project Engineer in the Transportation Division of Pennoni Associates. He graduated from Penn State in 1992 with a B.S. Degree in Civil Engineering. Upon graduating, Al began his career in Florida with McMahon Associates. He also worked for Palm Beach County before relocating back to Philadelphia to join Pennoni Associates in 2000. Al is a Professional Engineer in Pennsylvania and Florida and has recently been registered as a PTOE (Professional Traffic Operations Engineer).

Since joining Pennoni, Al has had an opportunity to work on a number of interesting projects including the creation of a Traffic Impact Study for the Canonization of Saint Katherine Drexel, in Bensalem PA. He has designed the first application of traffic calming techniques for East Caln Township on Bell Tavern Road and Downing Road. Al is currently working on a Corridor Improvement Project for three miles of Bristol Pike in Bensalem Township.

Al was an active member of ASCE in the Palm Beach County Section in Florida. He was that Chapter's Young Governmental Engineer of the Year in 1999. He has also been an active member of the Institute of Transportation Engineers for years, and has been published three times as member of that organization. Having recently joined the Phila. Section of ASCE, we look forward to Al's continued enthusiastic support for the engineering community through his involvement with ASCE and the YMF. Al and his wife Tracy live in Swarthmore with their three children.

## CALL FOR NOMINATIONS!

### Younger Member Awards

The Committee on Younger Members (CYM), National ASCE is actively soliciting nominations for the five Younger Member Awards listed below. The deadline for all award nominations is **February 1, 2003**. Nomination forms and additional information for all awards may be found at [www.asce.org/pressroom/honors/cym\\_awards.cfm](http://www.asce.org/pressroom/honors/cym_awards.cfm)

The **DANIEL W. MEAD PRIZE** is awarded on the basis of paper on professional ethics. This year's paper must be written on: "Is It Ethical To Profit From Engineering Work Arising From Natural or Manmade Disaster?" Candidates must be members of ASCE who are 35 years of age or less as of February 1, 2003.

The **EDMUND FRIEDMAN YOUNG ENGINEER AWARD** recognizes the professional contributions of Younger Members of the Society for service, technical competence, high character, integrity, and leadership. Candidates must be members of ASCE who are 35 years of age or less as of February 1, 2003.

The **YOUNG GOVERNMENT CIVIL ENGINEER AWARD** recognizes distinguished civil engineers employed in public service for demonstrated leadership potential in Public Service Engineering. Candidates must be members of ASCE who are 35 years of age or less as of December 31, 2002.

(Continued on Page 4)

## STORMWATER MANAGEMENT OPEN HOUSE

November 19, 2002

Villanova University, Villanova, PA

Villanova University, with the assistance of the Philadelphia Water Department's Office of Watersheds, invites the community to visit and take a guided tour of Villanova's Best Management Practice Stormwater Management Research and Demonstration Park.

The Stormwater Management BMP Research and Demonstration Park has been created through a series of grants through the Pennsylvania Growing Greener and 319 Non Point Source Pollution Control Program (Pennsylvania Department of Environmental Protection). Dr. Robert Traver will lead a walking tour of the site. Villanova thanks the Philadelphia Water Department for their help in organizing the tour. The tour will visit three BMP sites to include a Stormwater Wetland, a Bioinfiltration Traffic Island, and a Porous Concrete Facility.

While there is no cost for the tour, all participants are asked to register through the VUSP website listed below. The tour will start promptly at 9:30 forming in front of Villanova's Connelly Center. Visitors are advised to wear appropriate clothing and footwear for walking. As school is in session, parking is regulated, and all vehicles are required to obtain a pass. Visitors are strongly encouraged to take the R5 Paoli Local train to the campus train station which is convenient to the start and end of the tour.

Coffee, juice and cookies will be served.

Registration at [www.engineering.villanova.edu/cee/vusp/](http://www.engineering.villanova.edu/cee/vusp/)

## YOUNG GIRLS IN ENGINEERING

ASCE is partnering with Drexel University to introduce girls in grades 5 to 8 to engineering: what engineering is, what the different types of engineers are, and much more.

The Program officially started Friday, **October 25, 2002**, Fifth and Sixth graders will meet on the second Thursday of the month; and Seventh and Eighth graders will meet on the fourth Thursday of the month.

Fun, interactive activities will help the students explore various types of engineering, including electricity, ground water, concrete canoes, and bridges, by Dr. Richard Woodring, Drexel University.

On Thursday, **February 20, 2003**, students will present posters at Drexel as part of the National Engineers Week Celebration. Students will also be asked to participate in the Interactive Workshop at Cheltenham Mall on **Saturday, February 22, 2003**.

**Tim Haahs**

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Project Management

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## NEW MEMBERS

The Phila. Section, ASCE welcomes the following new members:

Gordon S. Bjorkman, Jr., David G. Cornelius, Matthew T. Ward, Debu Bhaumik, Joseph A. Mastronardo, Jade M. Blackwood, Lawrence G. Grybosky, Nicholas E., DiBlasi, Barbra B. Rwabwogo, Robert S. Pierson, Nicole R. Kline, Cory J. Donahue, Kathleen L. Phillips, Peter Getchell, Brian G. Ludolph, Susan C. Phillips, Rebecca L. Koze, Steven Burda, Jonathan March, Michael Gallagher, Gregory L. Simpson, Leonard J. Geraci, Jayne P. Reinhart, Timothy C. Franklin, James A. Krynski, Jamie M. Phillips, Elias Danucalov, Salim Atileh, Brian Finkelstein, James McNutt, Joseph Richer, Daniel McCullough, Thomas Bagenstose, Elizabeth Kenyon, Sameh Majid, Eric Boehm.

## MEMBERS IN THE NEWS

### Reading Branch Honored

The Reading Branch of the Phila. Section, ASCE, was named as the Zone 1 Top Branch winner for the 2002 membership drive for recruiting and retaining members. In recognition of its success, the Reading Branch was presented with a banner and a monetary award at the 2002 Civil Engineering Conference in Washington, DC on November 6, 2002. Congratulations to all members of the Reading Branch for its efforts and support over the past year.

### Dr. Woodring Elected Honorary Member, ASCE

Dr. Richard E. Woodring, has been elected an Honorary Member of the American Society of Civil Engineers.

He was inducted, along with 13 others, on November 6, 2002 at the National Conference and celebration of its 150th year in Washington.

An lumnus and dean emeritus of Drexel University's Collage of Engineering, Dr. Woodring was recognized for his distinguished career in the field of engineering education.

Among his contributions to engineering education, he helped establish an engineering curriculum at Drexel. The National Science Foundation recognized the curriculum in 1994 as a national model to be used by universities throughout the nation.

The 1987 "Delaware Valley Engineer of the Year," Dr. Woodring recently obtained a grant from the foundation to double the number of minority graduates at nine local universities over the course of five years. The program will target minority students in four fields: mathematics, science, engineering and technology.

Dr. Woodring earned his bachelor's degree in Civil Engineering from Drexel in 1954 and went on to receive his Master's and Doctorate in Civil Engineering from the University of Illinois. He joined the Civil Engineering faculty as an instructor at Drexel in 1956, becoming a full professor in 1968. He was named dean in 1975.

In 1999, Drexel's Civil and Architectural laboratories were renamed in Woodring's honor. At the university's 2002 commencement in June,

he received the Anthony J. Drexel Paul Award for service to his alma mater.

### Chuck Pennoni Honored

"Chuck" Pennoni, Chairman of the Board of Trustees, Drexel University, will receive a 2002 Service to Humanity Award at the 9th Annual March of Dimes Transportation and Construction Luncheon, held at the Pennsylvania Convention Center on March 26, 2003. He was also elected Chairman of the Board of Directors of the PENJERDEL Council, a non-profit coalition of business leaders from the Philadelphia area who focus on improving the infrastructure and other issues that enhance and further business in the region.


### Younger Member Awards

(Continued from Page 3)  
The YOUNGER MEMBER GROUP AWARD recognizes the most outstanding large and small Younger Member Groups in the Society.

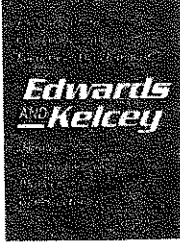
The COLLINGWOOD PRIZE is awarded to the author(s) of a paper (1) describing an engineering work with which the author(s) have been directly connected, or (2) recording the investigations contributing to engineering knowledge to which the author(s) have contributed some essential part, and (3) containing a rational digest of results. Candidates must be members of ASCE who are 35 years of age or less at the time the paper was submitted in essentially its final form.

If you have any questions, you may also contact Nancy Berson at (800) 548-2723, ext. 6010 or at [nberson@asce.org](mailto:nberson@asce.org).

CYM looks forward to your submittals.

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## SECTION SPONSORSHIP PROGRAM REVISED

In the Summer 2002 edition of THE NEWS an article gave information on how your firm could be a Section Sponsor. The Section's Board took action in August to revise and slightly simplify the Sponsorship Program. The particulars are outlined below.

The sponsorship will be limited to business card advertisements in THE NEWS. The website sponsorship option offered last year has been discontinued.

The cost of the business card ad will be \$200 (compared with \$100 which it has been for several years). This will continue to include the placement of your business card in all issues of The News for the 2002-03 season (starting in September and ending with the May/June edition, with at least seven issues anticipated - please note that ads are NOT included in the Summer edition). However, for the higher cost, the Section will offer additional direct benefits of this program. These include the following:

- Your logo will appear on a poster which will be on display at all monthly Section meetings and other major Section events, which will be additional recognition of your support.
- You will have the opportunity to be a Meeting Sponsor. As such, you are welcome to bring company representatives, literature, displays, handouts, and "give-aways" at a specific meeting at which your firm will be featured. This will be limited to one Section meeting per season and will be selected on a first-come, first-served basis.
- You will be able to place two employment want ads on the Section website during the season free of charge.
- Your company profile will be featured in an article in one edition of THE NEWS.
- You will be given two free tickets which can be used at any monthly Section meeting during the season.
- Your business card ad will be included in the program for the Section's Annual Spring Dinner and Presentation of Awards.
- Your firm will be recognized as a Section supporter on the Section website.

If you decide to become a Section sponsor, please send a check for \$200 and a copy of the business card you would like to appear in THE NEWS to our Post Office box. You can contact **Bob Wright** at (215) 686-5538 if you need any additional information on this program.

<p>Ann M. Tomalavage, P.E., PMP President</p>	
<p><b>Malarkey Consulting, Inc.</b></p> <p>Project Management Consulting Environmental Consulting</p>	
<p>1429 Shaner Drive Pottstown, PA 19465</p>	<p>(610) 326-0205 fax: (610) 326-0530 <a href="mailto:tomalava@netcarrier.com">tomalava@netcarrier.com</a></p>

## TEMPLE SEEKS FACULTY APPLICANTS

Department of Civil and Environmental Engineering, Temple University is searching for outstanding individuals to join the Department as tenured, tenure-track or non-tenure-track (full-time) faculty at all academic levels. part-time (adjunct) faculty positions are also available. Applicants for tenure-track position should have received a doctoral degree in Civil Engineering, Environmental Engineering or a closely related field. Candidates applying for full-time positions are expected to have or be able to develop significant research programs, and to achieve excellence in teaching. Applicants for full-time Associate Professor or Full Professor must have a substantial publication record, and an externally supported research program. Salaries for new faculty are highly competitive, and substantial resources have been allocated for startup funding. The College of Engineering offers Bachelors, Masters and PhD degrees in all Departments. Applicants should submit his/her curriculum vitae, representative publications, a statement of research interest and plan, a description of teaching philosophy, and the names and addresses of four individuals who may be contacted for references. Material should be sent to: Chair, Civil and Environmental Engineering Department, College of Engineering, Temple University, Philadelphia, PA 19122, or electronically to [CEED@blue.temple.edu](mailto:CEED@blue.temple.edu). Temple University is an Equal Opportunity/Affirmative Action Employer and specifically invites and encourages applications from women and minorities. Information about Temple University is available at <http://www.temple.edu>, and for the Department at <http://www.temple.edu/civil>.

## HELP WANTED

The Phila. Section, ASCE, needs your help! Become a volunteer for a Section Technical Group or following committees (see list on page 10).

**Administrative Committees:** Awards and Prizes; Professional Practice/150th Anniversary; 150th Anniversary.

**Standing Committees:** Nominating; Humphrey Fund Trustees.

**Special Committees:** Bylaws; Audit; Membership; Diversity and Women in Civil Engineering; Government Affairs; History and Heritage; Program; Publications; Website; National Society Awards; Phila. Section Awards; Scholarships; Educational and Outreach; Public Relations; Community Services; Delaware Valley Science Fairs; Delaware Valley Engineers' Week; Salary and Benefits Survey; Annual Spring Social; Sponsorship.

For further details, please contact Section President **Ruben D. David** either by:

E-mail: [ruben.david@phila.gov](mailto:ruben.david@phila.gov)

[Rubendavid2@juno.com](mailto:Rubendavid2@juno.com)

Phone: (215) 683-4477 or 1-800-461-4190

Mail: Philadelphia Section, ASCE

P.O. Box 58186, Phila., PA 19102-8186

## HILL INTERNATIONAL SPONSORS NOVEMBER SECTION MEETING

### Firm Profile

Founded in 1976, Hill International, Inc. is a worldwide construction consulting firm providing project management and construction claims services to the public and private sectors. Hill has managed the construction of some of the world's most prestigious projects and was recently ranked as the 14th largest construction management firm in the United States by *Engineering News-Record* magazine. Hill's project management services include program and project management, construction management, project management oversight, project labor agreements and staff augmentation. Hill is a world leader in construction claims consulting having participated in over 5,000 disputes valued in excess of US\$50 billion. Claims consulting services include cost and damage assessment, delay and disruption analysis, litigation support, expert witness testimony, claims avoidance training and alternative dispute resolution.

Headquartered in Marlton NJ, Hill has 19 domestic and foreign offices, including a full services office in Center City Philadelphia at 30 South 15th Street. Hill employs over 400 professionals including architects, engineers, planners, schedulers, estimators, value engineering specialists, construction managers, construction inspectors and a full range of technical and support staff. Hill manages all phases of the construction process from pre-design through completion, helping owners successfully complete projects on time and within budget while minimizing potential risk.

## ARE CIVIL ENGINEERS BECOMING TOO SPECIALIZED?

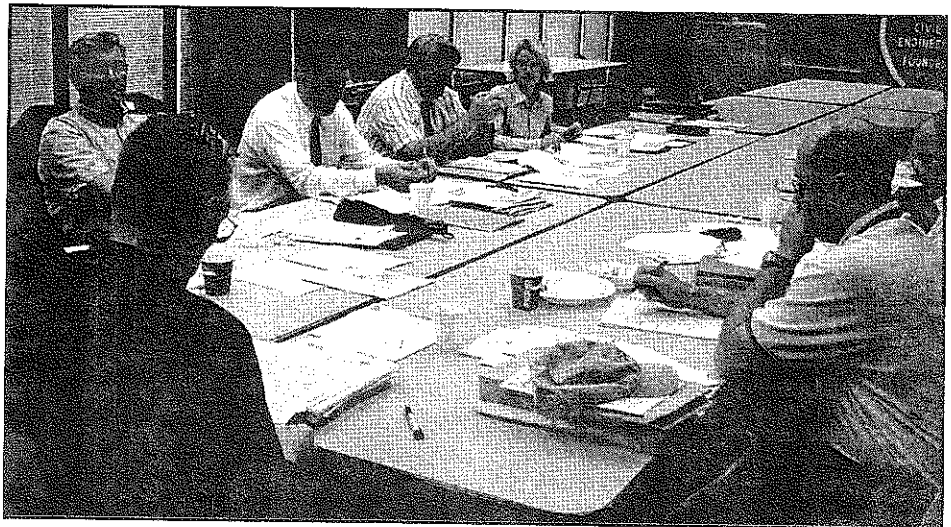
By John F. Graham, Jr., P.E., F.ASCE,  
District 4 Director

I recently attended a geotechnical dinner meeting and listened to a speaker. Although, I am not a Geotechnical Engineer, I have attended many of their talks for years. I have attended many other technical meetings of Civil Engineering as well. I am neither a Structural Engineer, nor an Airport Engineer, nor a Highway Engineer. I am a Civil Engineer. I am a generalist. Not everyone wants to be a specialist in one particular field. But specialists should consider attending other technical meetings outside of their specialty I would like to give some examples or reasons why you should consider this.

Years ago, a geotechnical engineering construction company asked me if I would listen to a presentation of three fairly new geotechnical techniques. I agreed to listen, as I was the Director of Engineering and Construction for Allegheny County. When they were finished, I said that I have no idea when and where the County will be able to use any of those techniques. However, I appreciated learning about them. It was a week later that an engineering consultant, working for the county, came to me with their solution to a sliding footer on a major bridge. They had an estimate of \$2 million dollars to fill the valley to stabilize the footer while covering a road and demolishing homes below. I immediately said that they needed to talk to the geotechnical construction company to e other ideas.

The engineering company came back with another solution estimated at \$500,000. We bid the work and the low bid was well under \$500,000. Because I was willing to listen to a presentation in a field that I knew little about, I was able to save the County more than \$1.5 million.

(Continued on Page 6)



**John F. Graham** (foreground), ASCE District 4 Director, conducts District Meeting hosted by the Phila. Section **September 27, 2002**. Representatives from National ASCE Pittsburgh, Central PA (Harrisburg), Phila. Sections and Reading Branch attended. Phila. Section President **Ruben David** and Past President **Bob Wright** represented the Phila. Section.

## VILLANOVA AND PHILA. SECTION, ASCE COSPONSOR HEC-HMS SHORT COURSE

Villanova announces a short course on The Corps of Engineers Hydrologic Engineering Center's Hydrologic Modeling System. The course will be held on Villanova's Campus **January 8 and 9, 2003.**

**Course Objectives:** This course has been designed to familiarize the civil and environmental engineer with both the theoretical and practical aspects of using HEC-HMS Ver 2.2, the surface water hydrology computer model developed by the Hydrologic Engineering Center of the U.S. Army Corps of Engineers. HEC-HMS is the second of the Next Generation (NexGen) engineering software packages to be released by the Corps. HEC-HMS replaces HEC-1, much as HEC-RAS replaced HEC-2. Villanova offers training on both HEC-RAS and HEC-HMS.

**Course Description:** The course has been designed to familiarize the water resource professional with the computational and design capabilities of HEC-HMS. The course starts with a review of hydrology. After each new aspect of HEC-HMS is introduced, students will be given a problem to analyze on the computer under supervision of the course instructors. Students will use the most current version of the package on high speed microcomputers in Villanova's Computer Aided Classrooms. This facility allows interactive presentations of results. HEC-HMS is much more user friendly than the earlier HEC-1. Specialized topics to be discussed will include stormwater management applications using curve number methodology, as well as Green and Ampt and Kinematic Wave. Theory and practical usage will be integrated to maximize understanding of HEC-HMS applications to real world design problems. Each instructor has more than a decade of extensive consulting, research, and academic experience with hydrologic models. Villanova provided feedback in the HEC-HMS development process.

Course Instructors: **Robert G. Traver, Ph.D., PE** Assoc. Professor; **Ronald C. Chadderton, Ph.D., PE** Professor; and **Frank E. Falcone, PE, Assoc.** Adj. Professor, Director, IEER

**Course Specifics:** Each course participant will receive the latest HEC-HMS software, program documentation and course notes. The program software is not copy protected. 2.0 CEUs will be awarded. The course will begin on **Wednesday, January 8, 2003** at 8:30AM and will finish Thursday at 4:30PM. A reception will be held at the end of class on Wednesday. Enrollment is limited. Further details may be found on Professor Traver's webpage: [www87.homepage.villanova.edu/robert.traver](http://www87.homepage.villanova.edu/robert.traver).

Contact: **Linda deAngelis**, Institute for Environmental Engineering Research, Room 139 Tolentine Hall, 800 Lancaster Ave., Villanova, PA 19085. (610) 519-4358; fax (610) 519-6754.



Phila. Section President **Ruben D. David** (left) presents the Section's Gifts of Appreciation to Speaker **Dr. Fred Gurney** after his presentation at the October 17, 2002 Section Meeting.

### Are Civil Engineers Too Specialized?

(Continued from Page 5)

Nicholson Construction Company recently used the same or similar technique, tiebacks, in the bathtub at the Twin Towers in New York City. It was Pete Nicholson's Company who came to visit me to talk about tiebacks, soil nailing and one other technique that escapes me today.

Years ago again, I was asked by Rockwell International to tell their engineers from all over the World facts about Pittsburgh and the engineering features while they were touring Pittsburgh and visiting some of their Rockwell Plants in the area. I was also invited to their magnificent engineers' week awards presentation that evening where Rockwell engineers from all over the world were presented awards. Another thing that impressed me was the cross polarization of different engineering disciplines talking to each other at the plants. I remember that one engineer in a different discipline said to another engineer, "Why are you using this shape for our product? We have discovered that it does not work well but another shapes does." Without this interplay that new knowledge

may not have been known for a long time wasting time, effort, and money.

I have never attended a seminar, a technical meeting or a conference when I haven't learned something whether it was because of presentation or because the speaker's talk reminded me of something similar in what I could be doing, or because I met someone that was important to the County or me. At this same geotechnical meeting I met someone who accidentally reminded me of some information that would be important to use in an upcoming speech I must give. You also get to meet the experts.

ASCE is saying that we need to broaden our education. We also need to broaden our experiences. I realize that time is important, but consider at least one technical meeting outside your expertise to broaden your experience every year. Maybe it will provide you with information so that your company will benefit when submitting a proposal that may not up to date with the latest engineering techniques, designs or ideas. If you are agency, maybe you will know that the consultant is not up to date.

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## OCTOBER JOINT DINNER MEETING

October 17, 2002

The Union League of Philadelphia

### "The Pennsylvania MAGLEV Project"

By Bob Wright, Staff Writer and Sid Robin, Editor

A splendid turnout of Phila. Section, ASCE, members and guests, representatives of the Section's Younger Member Forum, and Faculty, Alumni and Students of area Civil Engineering colleges and universities, enjoyed the opening regular monthly meeting of the Section's 2002-2003 season, at the Union League of Philadelphia in Center City. The subject was: "The Pennsylvania MAGLEV Project" and Principal Speaker was Dr. Fred Gurney, President and CEO, MAGLEV, Inc., Pittsburgh, PA. The meeting was excellently chaired by Section President Ruben D. David, P.E.

#### Section Awards Presentations

A special preliminary feature of the meeting was the presentation of a voice-accompanied video of the Phila. Section 2002 Awards. This presentation was originally made at the Section's Annual Spring Dinner Dance on May 3, 2002. It was repeated for the benefit of the awardees who were unable to attend the original presentation. The recipients acknowledged the honors and posed for photographs.

#### YMF President Speaks

Kristan Bowman, P.E., President of the Phila. Section's Younger Member Forum (YMF), which jointly celebrated the meeting with the Main Section, presented a brief overview of the busy and active agenda of the dynamic Section affiliate. Kristan introduced the Officers and Board of Directors of the YMF and delineated the objectives and activities of the Group, including technical and social events, proposed meetings with other Technical Societies (The Engineers' Club of Phila., the Lehigh Valley Chapter, ASCE, and others).

#### Zarsky Introduces Dr. Gurney

John Zarsky, Section Director, introduced Dr. Fred Gurney, the featured speaker for the evening. Dr. Gurney opened the meeting with an explanation of MAGLEV, Inc. and its goals. The maglev (magnetic levitation) train can travel at speeds in excess of 300 mph. It has no moving parts. The operating principle is electromagnetic lift and propulsion.

MAGLEV Inc.'s current efforts are centered on the metropolitan Pittsburgh area and the surrounding portions of southwestern Pennsylvania. The initial portion will connect Pittsburgh International Airport with downtown Pittsburgh and the eastern suburbs of Monroeville and Greensburg, a total length of 54 miles.

#### The MAGLEV Consortium and the Project

MAGLEV Inc. is a consortium of several corporations and stakeholders, including private businesses, the Port Authority of Allegheny County (the region's transit operator), and PaDOT. It has been in existence since 1990. Over 50 possible corridors and alignments throughout the Pittsburgh metropolitan area were studied, and the rec-

ommended line was derived from this study.

Dr. Gurney noted that the TEA 21 federal transportation legislation provided funding for a demonstration maglev project when it was passed in 1998. A total of 11 different potential areas/corridors were identified and these were placed in the competition for the funding. Seven of these were "short listed" for further consideration. The short list was narrowed to two - Pittsburgh and a Baltimore-Washington corridor. Final selection is not yet scheduled. There is \$1 billion designated, but not budgeted for this. Funding is not yet authorized and will need Congressional approval. Dr. Gurney added that the Pittsburgh project will cost about \$3 billion, so outside funding would need to be obtained to supplement the federal dollars.

#### "Track" Description

The maglev "track", or guideway, is mostly elevated to avoid conflicts on the right-of-way. On the Pittsburgh project, 96% of the line will be elevated. The guideway itself is steel, but all support columns and foundations will be concrete. Dr. Gurney indicated that there will be more concrete used than in a 4-lane highway of comparable length.

The mainly elevated nature of the line makes it a natural for the Pittsburgh area, as Dr. Gurney explained, since the terrain there is rugged and hilly. This has forced many highways to be curved and indirect, which contributes to the unique traffic problems the region faces (and one reason that maglev is such an attractive option).

#### Development of Corridor System

The selected Airport-Greensburg corridor will have four stations - 2 at either end, one in downtown Pittsburgh, and one in Monroeville - which will be spaced roughly 15 miles apart. Dr. Gurney explained that this is merely the "base" line, which is designed to expand to a full-fledged system over the next 50 years. It is envisioned to spread across the Northeast and Midwest - from Boston to Milwaukee - during that time period. This expansion will have trains serving a geographical area which contains half of the United States' population (as well as half the population of Canada), which is within a 500-mile radius of Pittsburgh. This makes Pittsburgh an ideal hub for such an expansive maglev service.

Dr. Gurney indicated that maglev trains are effective for trips up to 600 miles in length - beyond that, air travel is more advantageous. Thus, "short hops" would be better accommodated by maglev, and airport gates could be freed. The speed of maglev trains makes it superior to auto travel for considerable driving distances (the Philadelphia-Pittsburgh trip, 300 miles, takes over 5 hours by car, but could be done in just over 1 hour on maglev), so some drivers would also be enticed to use it. Dr. Gurney cautioned that maglev was not intended to replace air or auto travel, but more to supplement it.

Dr. Gurney displayed some renderings of proposed portions of the line and stations. The Pittsburgh Airport station would be designed for users to easily transfer to and from flights.

#### Cost Comparisons and Right-of-Way Advantages

The maglev train is cost competitive with auto travel (about 33 cents/passenger-mile, compared with current costs of 36 cents/mile for auto). Dr. Gurney outlined that the land needed for right-of-way for a dual guideway was roughly 15% of that required by a typical 4-lane highway, and the passenger capacity of the maglev is comparable to that of a 10-lane roadway. The dual guideway uses 4000 tons of steel per mile. Steel is needed for the guideway "rail" because the tolerances are very critical, often within fractions of an inch.

#### Construction Challenges

One challenge that must be faced with guideway construction is the transport and placement of the "rail" beams. These can be up to 200 feet in length and very heavy. Dr. Gurney noted that the rugged terrain in the Pittsburgh area will force contractors to use barges to move beams from fabrication plants to work sites. In Germany, large lifting balloons have been used to set, but not transport, the beams.

Dr. Gurney referred those desiring more information to the two maglev websites [www.maglevinc.com](http://www.maglevinc.com) and [www.maglevpa.com](http://www.maglevpa.com).

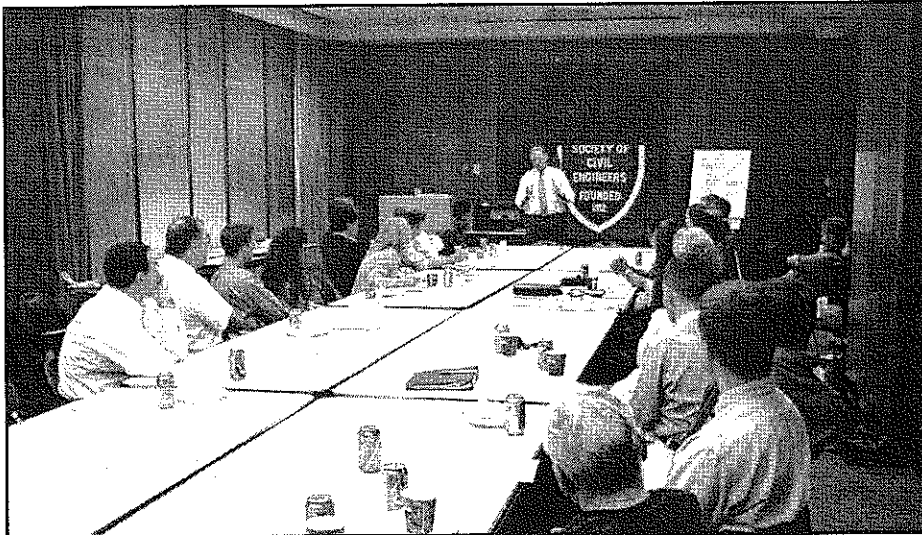
#### Question and Answer Discussion

Time constraints alone limited the stimulating discussion following presentation on this fascinating technological development in rail transportation, so eloquently described by our articulate, knowledgeable speaker. Dr. Gurney responded forthrightly and clearly to the multifaceted questions and comments.

President David presented the Section's Gifts of Appreciation to our Distinguished Speaker. All told, the good fellowship, delicious dinner and meeting presentation at our new "home base," the Union League of Philadelphia, were superb in all respects.

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<p>Brian Chiaromonte</p>	<p>26 Q Commerce Road Fairfield, NJ 07004</p>



C.R. "Chuck" Pennoni, Phila. Section Past President (1978-79), and National ASCE Past President (1991-92), addresses the Phila. Section Officers and Board Members, Younger Member Forum, Student Chapters, Faculty Advisors and other members at the "Greet and Meet" gathering on September 26, 2002.

## ICBO RELEASES

### Structural Plan Review Tool

Whittier, CA—The International Conference of Building Officials® (ICBO®) is pleased to announce the release of *2000 IBC CheckList™: Structural Provisions*, endorsed by the National Council of Structural Engineers of America (NCSEA). The set contains a CD-ROM and 200-page book designed to assist both the designer and plan reviewer in expediting the plan review process by providing numerous details, figures, and clarifications of the structural provisions contained in the 2000 International Building Code® (IBC®).

The new CheckList contains more than 800 structural plan review comments for all types of structures presented in an easy-to-understand, organized fashion. All structural topics from loading requirements to specific detailing requirements based on system and material are included. In addition to addressing code issues, the CheckList also provides specific comments based on the structural reference standards adopted in the IBC, keeping pace with the growing trend of adopting national design standards in building codes.

To order *2000 IBC CheckList: Structural Provisions*, call ICBO at (800) 284-4406 or visit [www.icbo.org](http://www.icbo.org). The new set retails for \$59.95. Members of ICBO or NCSEA affiliates can receive a discounted price of \$53.75.

ICBO publishes the Uniform Codes and is a founding member of the International Code Council and copublisher of the 2000 International Codes™. ICBO has worked on several publications with NCSEA dedicated to advancing structural engineering and promoting safety in the build environment.

## MORRIS ARBORETUM OFFERS 13TH ANNUAL SYMPOSIUM ON LANDSCAPE DESIGN:

### Vegetation and Innovation: Natural Landscape Design Continued

For professionals engaged in landscape design, ecological restoration, and the fascinating relationships among plants, people, and the built environment, the Morris Arboretum of the University of Pennsylvania is offering its 13th Annual Symposium: *Vegetation and Innovation: Natural Landscape Design Continued*.

Distinguished speakers from a variety of backgrounds and specialties will present their findings on such diverse topics as: seeding native plants, creating and sustaining meadow gardens, invasive plant control, designing with existing forest vegetation, regulations regarding storm-water runoff, ecological restoration, and the history of urban development's impact on Philadelphia's stream system.

Geared toward designers, horticulturists, ecologists, artists, gardeners, and other plan enthusiasts, the Seminar will be held **January 15 and 16, 2003** from 9 am to 4:15 pm at Villanova University. The cost for both days is \$275 with a student rate available of \$165. The fee includes breakfast, lunch and breaks. For a complete brochure describing the seminar, please contact 215-247-5777, ext. 125 or 126, or email Jan McFarlan at [jlm@pobox.upenn.edu](mailto:jlm@pobox.upenn.edu) or call Kate Sullivan at (215) 247-5777, ext. 121.

The Symposium is co-sponsored by the Morris Arboretum, the Connecticut College Arboretum and New Directions in the American Landscape of Larry Weaner Landscape Design.

The people who get on in this world are the people who get up and look for the circumstances they want, and, if they can't find them, make them.

— George Bernard Shaw, dramatist

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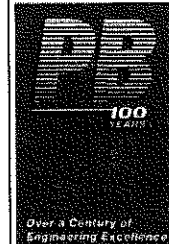
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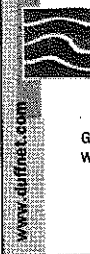
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**ACI ANNUAL AWARDS  
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The Delaware Valley Chapter of the American Concrete Institute is pleased to announce its 12th Annual Awards Competition. The purpose of the competition is to recognize outstanding concrete projects. Submittal projects must be completed between January 1, 1997 and December 31, 2002. Projects located in the chapter Counties of Berks, Bradford, Bucks, Carbon, Chester, Columbia, Dauphin, Delaware, Lackawanna, Lancaster, Lebanon, Lehigh, Luzerne, Monroe, Montgomery, Montour, Northampton, Northumberland, Philadelphia, Pike, Schuylkill, Sullivan, Susquehanna, Wayne, Wyoming and York in the Commonwealth of Pennsylvania; and in the State of Delaware, are eligible for the Competition.

Last years competition was sa great success, honoring six Grand Prize Winners and nine Finalists. The 2002 Grand Prize Winners are as follows:

**Merck Southwest Parking Garage**  
Architect Timothy Haas & Associates  
*Precast Concrete Systems Buildings*

**University of Pennsylvania Hamilton Square  
Specialty Market and Garage**  
Architect: Wood and Zapata, Inc.  
Shapiro, Petrauskas & Gleber, Architects  
*Cast in Place Concrete Frame Construction*

**Millennium One**  
Architect: Meyer Associates  
*Architectural Concrete/Precast Claddings*

**Midtown Parking Garage**  
Architect: Cope Linder Associates  
*Concrete Restoration and Rehabilitation*

**Gene Hartzell Memorial Bridge**  
PA DOT SR 33 Section 001  
Engineer: URS Corporation  
*Civil/Site Concrete Structures*

**Center Square Inc. High-Rise Office Towers**  
Architect: The Kling Partnership  
*ACI Historic Award*

We hope the competition will continue to promote appreciation for excellence in concrete design and construction within the industry and public.

To receive further information and submittal forms, please contact **Dan Velte**, CVM engineers, (610) 989-3800 or visit [www.dvaci.com](http://www.dvaci.com).

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**Resolve to Attend ALL Section Meetings and Functions This Year! And Invite Your Associates!**

**2003 ASCE/EWRI CONGRESS**

The Chair of the 2003 ASCE/EWRI World Congress has invited Phila. Section, ASCE Past President **Chris Rood, P.E.**, (2001-02), to attend the upcoming Conference. The Environment and Water Resource Institute (EWRI) of ASCE is holding its 2003 World Congress on **June 23-26, 2003** in Philadelphia, Pennsylvania. The theme of the Congress is "Protecting and Preserving Our Environment for the Future."

ASCE has been very active in highlighting both environmental and water resource issues through activities such as the Infrastructure Report Card. It has also been an early force in the effort to improve infrastructure security in the wake of last year's events. Both these themes will be built upon at the World Congress.


We already have a significant group of co-sponsoring organizations, including the Army Corps of Engineers and the Ecological Society of America.



**Walter J. DeLury, Jr., P.E.**  
Vice President


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## IMPORTANT! 2002-2003 MEETING NOTICES

MARK YOUR CALENDAR NOW! The dates of the Philadelphia Section, ASCE monthly meetings and social functions, are as follows: (Check each upcoming edition of THE NEWS for additional details, possible date and topic changes.) THIS IS A TENTATIVE LIST.

**ALL DINNER MEETINGS** (except as noted):

Cocktails – 5:30 pm; Dinner – 6:30 pm; Meeting – 7:30 pm

Students: All dinner and/or luncheon are at discounted price. If you prefer, you are welcome to attend all meetings after dinner or luncheon, at no charge.

**Thursday, November 21, 2002** Joint Dinner Meeting with Philadelphia Chapter, American Institute of Architects (AIA) • Union League • “The Athens Metro” • Speaker, Bill Stead • Villanova University Night

**Wednesday, December 11, 2002** Joint Dinner Meeting with Delaware Valley Chapter, Society of American Military Engineers (SAME) • Philadelphia International Airport Hilton Hotel • “Implosion of the Seattle Kingdom Stadium” • Speaker, Dr. G. Matheson • University of Pennsylvania Night

**Wednesday, January 15, 2003** Joint Dinner Meeting with Phila. Section’s Reading Branch and the Delaware Valley Section, American Society of Highway Engineers (ASHE) • Holiday Inn, King of Prussia, PA • “The New Phillis Stadium” • Speaker, John Stranix • Drexel University Night

**Thursday, February 20, 2003** Joint Dinner Meeting with South Jersey Branch, NJ Section, ASCE • Wyndham Hotel, NJ • “One Year After 9/11” • Speaker, John J. Peirce • Temple University Night and Rowan University Night

**Thursday, March 20, 2003** Joint Dinner Meeting with Delaware Valley Chapter, American Concrete Institute (ACI) and Women’s Transportation Society (WTS) • Union League • “SEPTA’s Vision” • Speaker, Faye Moore • Swarthmore University Night

**Thursday, April 10, 2003** Joint Dinner Meeting with the Construction Management Association of America (CMAA) • Union League • “City Planning” • Speaker, Dr. Gary Hack • Widener University Night

**Friday, May 2, 2003** The Phila. Section, ASCE Annual Spring Dinner Dance and Presentation of Awards • Sugarloaf Conference Center, Chestnut Hill, PA • Details to be announced.

## THE PHILADELPHIA SECTION E-NEWS AN ALTERNATIVE TO THE MAIL

The Phila. Section, ASCE Board of Directors is currently exploring ways to reduce the Section’s operating expenses while continuing to provide a high level of service to the membership. One possible reduction method we are considering is to offer our membership the opportunity of receiving THE NEWS via e-mail vs. through the US Postal Service. If you opt for e-mail delivery, your copy of THE NEWS should arrive 7-10 calendar days ahead of the US Postal Service delivered version. E-mail delivery will not only be quicker than the current method, but it will save the Philadelphia Section considerable printing and mailing charges as well. Another advantage with an electronic version is that you can forward THE NEWS to others interested in our Section’s activities. E-mail receipt of THE NEWS will require downloading a free copy of Adobe Acrobat Reader 4.0 with receipt of your first edition of THE NEWS.

At this time we are providing members with a survey form to elicit their opinion of how they would like to receive THE NEWS in the future. **If we do not hear from you we will assume that you want the USPS option.**

- E-mail THE NEWS to me @ \_\_\_\_\_
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Your e-mail address is necessary since we are updating our database and it will help us to better serve you. You can: call in your response to the survey at 1-800-461-4190 (24 hours a day); e-mail your response to us at [info@asce-philly.org](mailto:info@asce-philly.org) or mail your response to PO Box 58186, Philadelphia, PA 19102-8186.

Be sure to include your name, address, e-mail address(es), if applicable, and your ASCE Membership ID Number with your preference.