

the news



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Web site: <http://www.asce-philly.org>
National ASCE Central Number 1-800-548-ASCE • Toll Free

Vol. 75-7

Our 89th Year

February, 2003

MARCH JOINT DINNER MEETING

Philadelphia Section, American Society of Civil Engineers
Philadelphia Chapter, Women's Transportation Seminar
Delaware Valley Chapter, American Concrete Institute
Mid-Atlantic Section, Institute of Transportation Engineers
Philadelphia Section, Society of Women Engineers

THURSDAY, MARCH 20, 2003

THE UNION LEAGUE OF PHILADELPHIA • 140 South Broad Street, Philadelphia, PA 19102
Parking available at discount rate (coupons available at meeting) at Midtown Parking Garage,
1450 Sansom St. (directly across the street from the Union League)

COCKTAILS - 5:30 P.M. • DINNER - 6:30 P.M. • MEETING - 7:30 P.M.

SUBJECT: SEPTA's Vision

SPEAKER: Faye Moore, General Manager, SEPTA

RESERVATIONS MUST BE SUBMITTED BY MONDAY, MARCH 17, 2003. Please send your check for the number of attendees @ \$30.00 per member or guest, \$15.00 per ASCE Student Member, 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.

SPECIAL FEATURES: LIFE MEMBERS NIGHT & SWARTHMORE COLLEGE NIGHT - The ASCE Student Chapters, Alumni and Faculty of the Engineering Department of Swarthmore College will be honored at this meeting. All Students, Faculty and Alumni are cordially invited.

STV Incorporated is proud to be the Corporate Sponsor of this meeting.



Faye Moore is the General Manager of the Southeastern Pennsylvania Transportation Authority (SEPTA), the fifth largest transit operation in the United States with a 9,000 person organization providing multi-modal public transit services to a 2,200 square mile, five-county service region and selected destinations in New Jersey and Delaware. Ms. Moore is the first African American and female to serve in this capacity.

TECHNICAL GROUP ACTIVITIES Engineering Management Group

March Joint Luncheon Meeting with Engineers' Club of Phila. and Phila. Chapter, American Society of Mechanical Engineers (ASME)

DATE: Wednesday, March 26, 2003, 12 Noon

LOCATION: Conference Room 18-022, 18th Floor, One Parkway Building, 1515 Arch Street, Philadelphia, PA

PRICE: \$10.00; Students \$5.00.

SUBJECT: Phila. School District's \$1.5 Billion 5-Year Capital Program

SPEAKER: Paul Vallas, CEO — Phila. School District

For reservations, please call the Phila. Section, ASCE Electronic Message Center: **1-800-461-4190** (Open 24 hours/day).

Structural Group

April Luncheon Meeting

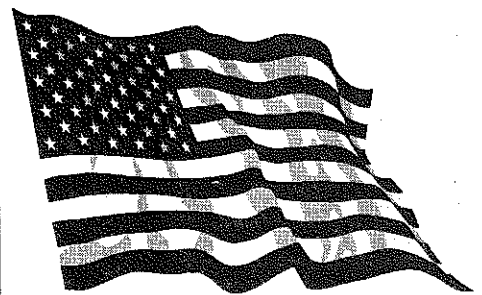
DATE: Thursday, April 17, 2003, 12-1:30 pm

SUBJECT: Design of Movable Bridges

SPEAKER: Dr. Charles Birnstiel, Ph.D., P.E.

LOCATION: Conference Room E, 16th Floor, Municipal Services Building, 15th & JFK Blvd., Philadelphia, PA

PRICE: No charge for the lecture. ASCE Members \$12; Students \$6



God Bless America!

STV Incorporated Sponsor of March 20th Meeting Company Profile

STV has more than 1,300 professionals in offices across the United States, including Philadelphia, Boston, New York, Baltimore, Chicago, Los Angeles, and San Francisco. The Philadelphia office has a staff of nearly 40 professionals.

A full-service firm, STV offers planning, architecture, engineering, environmental, and construction services. The firm's range of projects relates to transportation, environmental, buildings and facilities for public and private sector clients

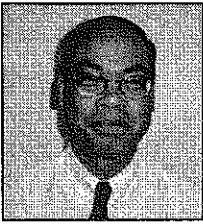
STV ranks 49 overall in Engineering News-Record's list of the Top 500 Design Firms, 22 in the Top 100 "Pure" Designers, and 13 in the Top 50 in Transportation. The firm is employee-owned and has been providing quality service since 1912.

Dr. Birnstiel is a Principal Associate with Hardesty and Hanover, LLP in New York City. Prior to that he was a Professor of Civil Engineering at New York University and at Polytechnic University. He is an expert on movable bridges. Before joining H&H in 1997, he led an engineering team that specialized, designed and constructed such bridges over rivers in USA.

Dr. Birnstiel will discuss applications of unusual and conventional movable bridges, including their design aspects.

Lunch will be served at Noon. Reservations are required as seating is limited.

(Continued on Page 2)



THE PRESIDENT'S MESSAGE

Volunteering in Civil Engineering ("Voice")

Dear Fellow Members in ASCE,

First of all, I would like to take this opportunity to apologize for two things. One, my President Message that appeared in the January issue of THE NEWS contained a few minor errors. The draft version of my message was inadvertently published in the newsletter. The main thing is that the "message" that I would like to convey to you was there. Also, the January issue of THE NEWS may

have not reached you, received late, or received too close to the February 20th Section meeting or received on the date of the meeting. In fact, I did not receive my newsletter in the mail. I am assuming the reasons for these were due to snowstorm and holiday. Therefore, I encourage you to sign up to our Section E-News, as an alternative to the mail. See back page of this newsletter for details.

In the next two months of my term, I would like to conduct a series of elected officials and government leaders' forums. This is one way of bridging the gap between politics and us. Politics affects our lives, our families, our communities, and our profession. We can start dealing with the elected officials by giving ourselves the opportunity to get involved in debates and to influence legislation. We are constantly presented with the challenge of improving the nation's infrastructures. Whether it involves roads, bridges, airports, piers, buildings, environment, water treatment, and public transportation, we are called upon to provide solutions to improve the public's quality of life. With these responsibilities placed on us, it is easy to forget about the role of government in our profession. In order to fulfill our mission, that is to protect the public health and safety and property, we must be involved in the policy making process at all levels of government - Federal, State, County and Municipal governments. Elected officials' support is vital to our profession and industry. Most of them are non-engineers and know little about engineering and the type of work we do. This alone should motivate us to get more involved. Influence legislators by communicating with them about pending legislation to express your views or make a point to your lawmakers. The more we get to know our legislators the more effective we are in the public policy process. Get to know them sooner than later. Elected officials do have time to listen and discuss with constituents. They do seek advice of outside experts, like us. It is part of their job and they do benefit by listening and learning and better informed. Elected officials turn first to those people who have built relationships with them and earned their trust. Support Local, State and Federal elected officials who understand and are committed to infrastructure as an election issue, just as they would on education, crime, taxes, jobs, or health care.

Look for future forum announcements.

Think VOICE.

Sincerely, Ruben D. David, P.E., President
Philadelphia Section, ASCE

Technical Group Activities

(Continued from Page 1)

For reservations, please contact **Ali Khan, Ph.D., P.E.**, Chairman, Structural Group, at (609) 530-9618. Or call the Electronic Message Center: 1-800-461-4190 (Open 24 hours/day). Or send your check for \$12 to the Phila. Section, ASCE, P.O. Box 58186, Philadelphia, PA 19102-18186.

Transportation Group

April Luncheon Meeting

DATE: Tuesday, April 22, 2003, 11:45A.M. - Registration; Noon to 12:30 Lunch, 12:30-1:30P.M. Presentation

SUBJECT: Next TEA Legislation

SPEAKER: Mr. Charles Dougherty, Associate Director for Transportation Planning

LOCATION: Philadelphia Room at the Offices of the Delaware Valley Regional Planning Commission (DVRPC), 111 South Independence Mall East, Philadelphia, PA

PRICE: ASCE Members \$10; Students \$5

DVRPC is the Philadelphia area's metropolitan planning organization (MPO). It encompasses the nine-county area including Bucks, Chester, Delaware, Montgomery and Philadelphia Counties in Pennsylvania and Burlington, Camden, Gloucester and Mercer Counties in New Jersey. It

has overall responsibility for preparation of both short-range and long-range plans for guidance of transportation planning, land use, storm water management and air quality. It also functions to advise regional governments on these issues. It serves as the local clearinghouse for several sources of federal and state funding.

One of DVRPC's principal roles is the management of the Transportation Improvement Program (TIP). The TIP is prepared from input of the nine regional counties, four principal cities, and the state DOT's. Projects that use federal highway or federal transit funding must be on the TIP. Mr. Dougherty will discuss DVRPC's role in this process and how the coming federal transportation legislation will affect the region.

A buffet lunch will be served starting at Noon with the presentation beginning at 12:30 pm. Reservations are required. Seating is limited to 40. Please contact either **Dave Hanly** at (215) 735-0832 or **Chris Rood** at (856) 461-9565 if you have any questions and for reservations. Reservations are required by close of business on **Friday, April 18, 2003.**

SECTION WEB SITE!

Our Section's web site has taken on a new look! Check us out at 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.

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**COPY DEADLINE FOR
MARCH 2003 ISSUE
MARCH 20, 2003**

**MARK YOUR CALENDAR!
APRIL JOINT DINNER MEETING**

Philadelphia Section, American Society of Engineers
Mid-Atlantic Chapter, Construction Management Association of America (CMAA)
Philadelphia Chapter, American Public Works Association (APWA)
DATE: Thursday, April 10, 2003
SUBJECT: City Planning
SPEAKER: Dr. Gary Hack, Chairman – City Planning Commission
LOCATION: The Union League of Philadelphia, 140 S. Broad Street, Philadelphia, PA
Cocktails – 5:30PM; Dinner – 6:30PM; Meeting – 7:30PM
PRICE: Members & Guests \$30, Students \$15

Dr. Hack, Dean of Graduate School of Fine Arts, University of Pennsylvania will be our honored guest speaker. Come out and see his presentation and ask him questions. This meeting will also feature **Patrick Natale**, the new Executive Director of ASCE National.
Call ASCE's hotline at 1-800-461-4190 or e-mail the Section at info@asce-philly.org. See you there!
SPECIAL FEATURES: Phila. Section, ASCE Past Presidents' Night, Widener University and University of Pennsylvania ASCE Student Chapters Night.

Technical Group Activities
(Continued from Page 2)

Engineering Management Group and Construction Group
Joint Luncheon Meeting

DATE: Wednesday, April 23, 2003, 12:00 noon
LOCATION: One Parkway Building, 1515 Arch Street (16th and Arch Streets), 18th Floor, Conference Room 18-022, Philadelphia, PA
PRICE: \$10.00. Students \$5.00.

SUBJECT: CON/SPAN Bridge Systems
SPEAKERS: Richard Tate and William Gray, BridgeTek Bridge Technologies, LLC

Richard Tate and William Gray will discuss BridgeTek's innovative precast modular bridge system. The program will include the installation process, local and national applications, hydraulic considerations, siting considerations, and other related topics. It promises to be a very interesting topic for all Civil Engineers.

For reservations, please contact **Dennis MacBride, P.E.** at (215) 568-6500 or **William Mulloy, P.E.** at (215) 656-6583 no later than **Wednesday, April 16, 2003.**

Please note that a photo ID is needed to enter the building

ANYTHING FOR A LAUGH

A man visiting a graveyard saw a tombstone that read: "Here lies John Kelly, a lawyer and a honest man."
"How about that!" he exclaimed. "They've got three people buried in one grave!"

CONCRETE CANOE COMPETITION REGIONAL COMPETITION
APRIL 25-26, 2003

Lafayette will host the bridge competition. Drexel will host the canoe race.
We still need some judges for the Canoe Competition – contact **Darin Gatti** at (215) 686-5573, or email darin.gatti@phila.gov. **John Stone** is our chief judge and currently only confirmed judge, we would like five additional judges.

There will be a Balsa Wood Bridge Competition on Friday night, **April 25, 2003**. We will invite the high school to participate in this competition.

There will also be a Technical Paper Competition – Drexel has judges for this.

Saturday, June 14, 2003 – Clean up day at the Race site, between the Canoe Club and St. Joe's boathouse, just south of Strawberry Mansion Bridge. We are hoping that the YMF can help us coordinate this.

Wednesday, June 18, 2003 – At lunchtime we will put three of Drexel's canoes in the fountain as a publicity stunt. We will need help with displays (maybe some consultant displays depicting the type of work they do) and information posters and banners. We should also have information about the race.

Friday, June 20, 2003 – Block Party on Drexel Campus. Welcome party for the contestants.

Saturday, June 21, 2003 – VIP Dinner for Judges, Dignitaries and Sponsors on the Battleship NJ.

Sunday, June 22, 2003 – A Day at the Races
If anyone has any ideas or volunteers contact **Darin Gatti** at (215) 686-5573 or darin.gatti@phila.gov.

NEW MEMBERS

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

James Cohen; Ahmad Tamous; Rami Raad; Brian Gargan; Helen Harrison; Zhaoyang Chu; Mark Wilke; Xiaobo Wang; Kyle Kessler; Melissa VanDyke; Eugene McNally III; Brian Park; Amanda Castellanos; Stephen Steinbrook; Olushaye Efunuga; Kelly Streeter; Robert Lendzinski; Bruce Haigh; William Le Boeuf; Jeffrey Magee.

The following landmark new Phila. Section, ASCE members are noteworthy, as we cross the 2,000 mark!

1999th member – Kristin Barnes, Drexel student, ID #407737, signed up 1/24/03
2000th member – Anthony Gigante, Villanova student, ID #407868, signed up 1/29/03
2001st member – Keith Thompson, Associate member, ID #407968, signed up 1/31/03

Resolve to attend ALL Section Meetings and Functions This Year!

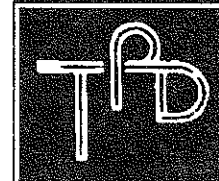


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ASCE PHILA. SECTION MEMBERS

Are you interested in receiving the DVGI monthly newsletter? Add your name to our email list by sending your email address to Mr. Yongli Min, P.E., (yongli_min@urscorp.com) and you will begin receiving our newsletter in November 2002.

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WOMEN'S TRANSPORTATION SEMINAR

The Philadelphia Chapter of Women's Transportation Seminar (WTS), which will participate in the March 10, 2003 Joint Phila. Section, ASCE meeting, was established in 1979, has over 100 members, and represents women and men transportation professionals from a variety of areas: consulting firms, railroads, transit agencies, ports, equipment suppliers, motor carriers, paratransit, ports, and public and quasi-public agencies. WTS offers monthly meetings and seminars to enhance networking opportunities and provide meaningful career and technical enrichment for our members and the general transportation community. Recent speakers include **Faye Moore**, General Manager of SEPTA; **Susan Schruth**, Regional Administrator of the Federal Transit Administration's Philadelphia Mid-Atlantic Region; and **Joseph Syrnick**, Chief Engineer and Surveyor for the City of Philadelphia, Department of Streets.


As part of its goal to advance the professional development of women in transportation, WTS Philadelphia offers an annual undergraduate and graduate scholarship to women pursuing careers in Transportation, as well as opportunities to participate in a variety of leadership conferences and professional development seminars.

We welcome you to come to our meetings. If you would like more information, or are interested in becoming a member, please contact **Nilda Rivera-Frazier**, WTS Philadelphia Membership Coordinator, at (215) 580-7478 (or email: nfrazier@septa.org).

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Ang Associates, Inc. is a multi-disciplined certified minority-engineering firm serving Philadelphia and the Mid-Atlantic States region. The firm, formed in 1977, provides high quality engineering services through registered professionals in the civil, structural, geotechnical, mechanical, and electrical disciplines.

Ang Associates is proud to have provided major engineering/design contributions to landmark projects in the region, including: Eagles Stadium; Kimmel Center for the Performing Arts; Suburban Station Concourse Renovation; SEPTA's Market Street Elevated and Frankford Elevated Reconstruction Projects; and the state-wide Pennsylvania Public Safety Radio Project.



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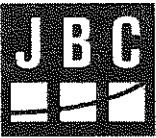




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YOUNGER MEMBER FORUM NEWS

by Michael McAtee, PE

2002-03 YMF Vice President

Younger Member Forum Editor

Kristen Bowman, PE, 2002-03 President

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The Younger Member Forum (YMF) current membership includes college students, recent graduates, and young engineers including Registered Professional Engineers who are 35 years of age and under. The objectives of this group are: 1) To provide networking opportunities, 2) To interact with schools and the general public to promote Civil Engineering, and 3) To enhance career developments.

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 or at (215) 922-8080. There are no fees to join!

Recent Accomplishments

The YMF would like to congratulate one of our Past-Presidents, Chris Menna who was recently named the 2003 Delaware Valley Young Engineer of the Year! The success of the Younger Member Forum can be attributed to Chris' countless contributions over the years.

The 2003 Northeast Regional Younger Member Council (NERYMC) leadership symposium was held from January 17-19, 2003 in Albany, New York. The Philadelphia YMF was well represented by delegates Alyson Lester of Urban Engineers, James Markham of Pennoni Associates, and Kristen Bowman of Flow Science. The purpose of the Conference was for Younger Members to learn about ASCE, develop leadership skills, and network with Student Chapter members, Younger Members, and Section/Branch members from throughout Zone I, which extends from Washington, D.C., to Maine. Conference sessions included a welcome by ASCE National President, Tom Jackson, and Executive Director, Pat Natale. Delegates learned about the organization of ASCE and the status of ASCE Policy 465 (i.e., "raising the bar" for professional licensure requirements). Younger Member delegates also discussed several proposed changes to the ASCE organizational structure and were able to participate in workshops on mentoring, technical writing, and community outreach. One of the highlights of the Conference was the Younger Member group reports. This was an opportunity for delegates to share information on their Groups' most successful events and ideas. The Philadelphia delegates had many successes to share, but also brought back several new ideas.

Overall the NERYMC Conference provided a wonderful opportunity for the Younger Members to learn more about ASCE and how to run a successful Younger Member Forum. It was also a tremendous opportunity to meet and network with

other ASCE members and National Officers. The YMF appreciates the support of the Philadelphia Section in sponsoring delegates and looks forward to the 2004 NERYMC conference.

The YMF College Outreach Program Panel visited Drexel University on January 22, 2003 and Temple University on February 5, 2003. The Drexel University panel consisted of Christopher Wright, DMJM+HARRIS, Matthew Ward, Urban Engineers, Inc. and Don Gusic, Parsons Brinkerhoff. The Temple University panel included James Markham, Pennoni Associates, Vincent Chin, Pennoni Associates, Daniel Afflick, City of Philadelphia and Anita Menegaux, Malcolm Pirnie. Issues that were discussed included continued education, professional licensure, job hunting, interviewing tips, and important skills to bring to your first job. After the discussions, the panelists spoke informally with students to address their concerns one on one. If you would like to be part of a future panel and share your knowledge with the Engineers of the future, please contact Tom Brady at tbrady@vollmer.com or at (610) 444-6522.

DID YOU NOTICE? The Philadelphia Younger Member Forum was recently recognized in the November/December 2002 150th Anniversary double-issue of ASCE's magazine, *Civil Engineering!* Elizabeth Gaynor, a Villanova University senior Civil & Environmental Engineering student, was interviewed in the article, "The Future is in Good Hands." On page 257, Elizabeth mentions that the students have benefited from their interaction with the Philadelphia Section and the YMF's College Outreach Program. Thanks for the good press, Elizabeth!

Noteworthy Events

The YMF organized the *Seventh Annual Critical Issues Facing Young Engineers Panel Discussion* on Monday, February 24, 2003. The meeting was held at Drexel University at the Living Arts Lounge in the Creese Student Union Building from 5:30PM to 8:00PM. At this meeting, a distinguished panel of speakers addressed important issues facing young engineers today. The panel included the 2003 Delaware Valley Young Engineer of the Year, Christopher Menna, PE (City of Philadelphia, Department of Streets), the 2002 DVYEOY recipient, Casey A. Moore, PE (McMahon Associates), Paula Estornell (EPA Region III), Frank Falcone, P.E. (Adjunct Associate Professor at Villanova University) and Kathi Kennedy (Drexel University). Moderating this event was the YMF Vice President, Michael McAtee, PE. Topics included career management, salary, work conditions, industry trends, licensing, professionalism, non-traditional careers, and what young engineers can expect and how to prepare.

The Philadelphia YMF held a Joint Meeting with the South Jersey YMF on Wednesday, February 26, 2003. The topic was the Philadelphia Phillies New Ball Park. It was held at the offices of Pennoni Associates at One Drexel Plaza, 3001 Market Street in Philadelphia at 6:00PM. Mr. Mark Celoni, PE, Associate Vice President at

Pennoni Associates, Inc., presented various aspects of the design of this \$350 million facility, including topography and utilities, preparation of site improvements for the ball park and parking lots, and proposed pumping stations. Mr. Celoni also discussed the process of working with Geotechnical Engineers and sports turf designers for developing site-specific construction details for the natural turf playing field.

Upcoming Events

The Drexel University ASCE Student Chapter is hosting the next Penn-Delaware Regional Conference on April 25-26, 2003, in Doylestown, PA. The Conference includes the Regional Steel Bridge and Concrete Canoe Race Competitions, a Balsa Wood Bridge Competition, several other design competitions, and a Student Chapter business meeting. The YMF will be assisting with several events, in order to increase the practitioner-student interaction. We are still looking for volunteers who would be interested in being judges for the Balsa Wood Bridge and Steel Bridge Competitions. This event will be held on Friday evening, April 25, 2003. This event is rapidly approaching, if you are interested in helping out or learning more, please contact Kevin Aach at kaach@mbakercorp.com.

(Continued on Page 6)

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Group picture of students and teacher from Orchard Valley Middle School, Washington Township, NJ. Volunteers and Phila. Section, ASCE Officers at the Seventh Annual Student Project Mall Display held at the Granite Run Mall, Media, PA held on February 22, 2003 in celebration of Delaware Valley Engineers' Week.

Younger Member Forum News

(Continued from Page 5)

MARK YOUR CALENDAR! The YMF will be assisting **Habitat For Humanity** again this year! The date of this volunteer effort will be **Saturday, June 7, 2003**, from 9AM to 4PM. The YMF is looking for 15 to 20 volunteers to assist Habitat repair a home in West Philadelphia. If you are interested or would like additional information, please contact **John Federico**, Urban Engineers, Inc., at jfederico@urbanengineers.com.

Member Spotlight

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

Matt Malozi is the Vice President of Operations at Traffic Planning and Design, Inc. (TPD). He earned a B.S.E. in Civil Engineering Systems from the University of Pennsylvania, and, shortly thereafter, began work with TPD on transportation planning projects. As TPD grew (from 8 staff members to 90), Matt's career focus shifted from the engineering side of the organization toward the administrative side, and culminated in his being named an Associate with the firm earlier this year.

In addition to his membership in ASCE, Matt is very active in other Professional Societies. He is a Past President of the East Penn Section of the American Society of Highway Engineers (ASHE), an active committee member for ACEC/PA, and currently serves as the Chairman of Penn's Transportation Systems Engineering Alumni Club. For the past 3 years, he has also served as an instructor at Drexel University where he teaches a freshman seminar.

Last October, Matt married his college sweetheart, and the two reside in Philadelphia. Matt's hobbies do not include golf. Instead, he spends his free hours in the gym training for powerlifting meets.

**Youth is a quality,
not a matter of
circumstances.**

—Frank Lloyd Wright

NOMINATIONS FOR OFFICE

Phila. Section, ASCE 2003-04

In accordance with the Constitution and Bylaws of the Section, the Nominating Committee, appointed by President **Ruben David** and chaired by Past President **Chris Rood**, has submitted the following slate of nominees for elective office for the 2003-04 administrative year:

President – Allan Moore (moves from current President Elect position automatically)

President Elect – Brian Stover (one year as President Elect followed by one year as President)

Vice President – Walter DeLury

Treasurer – David Hanly

Membership Secretary – Thomas Brady

Directors (all 2-year terms) – Frank Falcone, Carol Martsof, Christopher Wright

Non-voting assistant position candidates will continue, as follows:

Assistant Secretary – Alyson Lester

Assistant Treasurer – Mark Washington

Officers in which incumbents have one remaining year to serve are:

Secretary – John Stone

Directors – Patricia Gallagher, Christopher Menna, Karen Anne Riley

Past Presidents to serve on the Board of Directors are:

Thomas Branigan – one year

Chris Rood – two years

Ruben David – three years

The above slate was proposed in advance of the March Board Meeting and will be announced at the March 20, 2003 Section Meeting. If no additional nominations are received by the Section Secretary by **Monday, March 31, 2003**, the above slate shall be declared as elected at that time. The Officers will be officially installed at the Section's annual Spring Social and Dinner Dance on **Friday, May 2, 2003** at Sugarloaf Conference Center.

The Section's appreciation is extended to the Nominating Committee, which consisted of **Chris Rood** (Chair), **Ruben David** and **Bob Wright**.

2003 DELAWARE VALLEY SCIENCE FAIRS

The Philadelphia Section, ASCE, will again be participating in the **Annual Delaware Valley Science Fairs**. This year's Fairs' judging day will be **Wednesday, April 2, 2003** at the Fort Washington Expo Center, Fort Washington, PA. As in the past, the Section will be judging, and subsequently presenting Special Awards. Our Section is looking for 6 to 8 judges to participate in our judging, with the Science Fairs needing approximately 500 judges.

For further information and/or to volunteer as a judge, please contact Philadelphia Section First Past President **Chris L. Rood, P.E.** at (856) 461-9565, ext 102 or via e-mail at C-T-Rood@msn.com.

SEMINAR ANNOUNCEMENT

DESIGN IN THE 21ST CENTURY

Presented By Dr. Charles H. Thornton
The Thornton Tomasetti Group Inc. at
CHAD (Charter High School for Architecture+
Design), 675 Sansom Street, Philadelphia, PA

Tuesday, April 22, 2003, 2:45 PM

The Franklin Institute is proud to announce that on **April 24, 2003** Dr. Charles H. Thornton will receive the Benjamin Franklin Medal in Civil Engineering. This award is made in recognition of Dr. Thornton's insightful and imaginative use of common structural elements in the design of long span structures and high rise buildings, which includes the world's tallest building. The award also recognizes his leadership in the analysis of structural failures and his leadership role in the motivation of high school students to pursue careers in engineering, architecture and construction. In conjunction with his award, Dr. Thornton will present on **Tuesday, April 22, 2003** a seminar entitled "Design in the 21st Century." Dr. Thornton's lecture will offer reflections on his structural design experience over the last 40 years. He will also offer insights into where design will be going in the future based on his past experience and recent events such as 9/11 and his firm's essentially paperless design of the new Chicago Bears Football Stadium.

Seating is limited. Please RSVP by 4/18/03 to: **Barbara Chandler Allen**, ballen@chadphila.org, (215) 351-2900 ext 2245.

Awards Week Programs generously underwritten by Cephalon.

VOLUNTEER OPPORTUNITIES

Sandra May, the ASCE Community Service Chairperson, is looking for volunteers to describe Civil Engineering to disadvantaged students. At this time, seeking to send an engineer to Harry Elementary School in West Philly (near 56th and Christian). If you are interested in helping out, or if you would like more information on the program, please contact Sandra at (215) 841-5269.

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NATIONAL ASCE IS COMING TO PHILADELPHIA

ASCE National will be offering the following continuing education seminars in Philadelphia over the coming months:

**March 20-21, 2003
Seismic Design and Performance of Building Structure**

This two-day seminar provides a thorough introduction to the principles of seismic design and performance. The instructors make extensive use of experience and practical applications of earthquake engineering to give participants a solid foundation in seismic design philosophy and the basic tools necessary for evaluating seismic performance of new and existing structures.

Seminar Benefits:

- Learn techniques for enhancing seismic performance of existing structures and new construction
- Identify the differences between seismic loading and other forms of structural loading
- Find out how to apply simple principles of structural dynamics in seismic design and analysis
- Understand the role of ductility in seismic performance and the use of response spectra
- Explore characteristics of lateral load resisting elements and load paths
- Understand the purposes and limitations of current building code seismic provisions
- Develop skills for assessing seismic behavior of existing structures.

Seminar Instructors:

Dr. Howard J. Hill, P.E., S.E., Consultant Level Structural Engineer, Wiss, Janney, Elstner Associates, Inc., Northbrook, Illinois. Dr. Hill's primary area of practice involves evaluation of existing structures and structural failures. His earthquake engineering experience includes numerous damage assessment projects, detailed seismic evaluations of proposed and existing structures, design of comprehensive repair and retrofit programs, and peer reviews. He has lectured extensively on seismic design and performance.

Mr. Conrad Paulson, P.E., S.E., is a Consultant with Wiss, Janney, Elstner Associates, Inc., Chicago, Illinois. He has over 18 years of experience in structural engineering, encompassing investigation of structural problems and failures, seismic evaluation of existing structures, structural analysis, laboratory research and testing, and the evaluation of historic structures and archaic structural materials. Through the FEMA NETAC program, he has performed seismic evaluations of emergency operations centers, hospitals, and government office buildings.

For a detailed description of the above seminars, please go to www.asce.org/conted/seminars, click on the seminar title and then click on "review entire brochure in pdf format."

Each participant will receive a copy of "NEHRP Recommended Provisions for the Development of Seismic Regulations for New Buildings," course notes and references.

To register go to: <https://www.asce.org/se-cure/cedregform.cfm> or call 1-800-548-2723.



"Critical Issues Facing Young Engineers" seminar held on February 24, 2003 at Drexel University, the 7th Annual seminar was held in celebration of Engineers' Week in the Delaware Valley and was hosted by ASCE Philadelphia Section and Engineers' Club of Philadelphia. Pictured left to right: Kristen Bowman, Danielle Farrell, Chris Menna, Casey Moore, Paula Estornell, Frank Falcone, Kathy Kennedy, and Mike McAtee.

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FEBRUARY JOINT DINNER MEETING

February 20, 2003

Wyndham Hotel, Mt. Laurel, NJ

"World Trade Center 9/11 Rescue Bridges"

By Bob Wright, Staff Writer and Sid Robin, Editor

In spite of the extremely inclement weather after the severe snowstorm, a gratifying turnout of members and guests of the host Societies, the Phila. Section, ASCE and the South Jersey Branch of New Jersey Section, ASCE; and ASCE Student Chapters' Officers and members, Alumni and Faculties of the Civil Engineering Departments of Temple University and Rowan University, enjoyed an enlightening presentation on the important and vital engineering achievement: "The World Trade Center 9/11 Rescue Bridges." Featured Speakers were key engineers involved in the gigantic project, which enabled rescue and cleanup operations to proceed efficiently; **John J. Peirce, P.E.**, Founder and Principal, Peirce Engineering, Inc., **Matthew J. Hummel, P.E.**, Project Engineer, and **Mark E. Joosten, Vice President**, both of Acrow Corporation of America.

The meeting was capably co-chaired by ASCE South Jersey Branch President **Soheila Rahbari, P.E., P.G.** and Phila. Section President **Ruben D. David, P.E.** Both Presidents made announcements of concern and interest to their respective organizations.

Gouda Honored by South Jersey Branch

Mustafa Gouda, P.E., long a devoted member and officer of both the South Jersey Branch and the Phila. Section, ASCE (he is a Past President of both Societies, and a Past National Director of ASCE District 1) was presented a special tribute by Jersey Branch President Rahbari. He acknowledged the honor in a brief address.

District 4 Director Graham Speaks

National ASCE District 4 Director **John F. (Fred) Graham, Jr., P.E.**, briefly reviewed the latest National Headquarters developments of interest to the membership.

Temple University and Rowan University Night

The meeting honored the ASCE Student Chapters, alumni and faculty of the Civil Engineering Departments of Temple University and Rowan University, both of which had representative contingents at the meeting. Temple's ASCE Student Chapter Faculty Advisor, **Philip Udo-Inyang, P.E.**, thanked his hosts for their courtesies, and presented a review of the Civil Engineering Department current curricula courses and plans for future growth. He is particularly proud of the continuing rise in the number of female Civil Engineering registrants and graduate students at the College of Engineering in recent years.

Sean Krasnansky, President of Temple's ASCE Student Chapter, also thanked the Joint Societies for honoring the Student Chapter and Civil Engineering Department. He introduced his fellow Officers Vice President, **Kobby Addo-Boateng**; Secretary, **Lydia Edwards**; Treasurer, **Monica Leary**; Chairperson, **David Powers**; and Adjunct Faculty: **Jud Vedges, P.E.**, and Phila.

Section President **Ruben D. David, P.E.** Sean described highlights of the Chapter's activities, which include close collaboration with the Department's Younger Member Forum; preparation for the Regional Concrete Canoe Race Competition; fund-raising efforts to achieve their objectives; increasing involvement with the Philadelphia Section; and keeping their doors open to assist students in the Civil Engineering courses. He paid special tribute to the Officers of the Phila. Section, ASCE and the Chapter's Faculty Advisor, **Dr. Udo-Inyang** for their invaluable help in the programs of the Chapter.

Rowan University Student Chapter

Rowan's ASCE Student Chapter Faculty Advisor, **Douglas Cleary, P.E.** thanked his hosts for their recognition and honors, and introduced the Chair of Rowan's Civil Engineering Department, **Ralph A. Dusseau, P.E.**, and acknowledged the Rowan alumni and faculty in the audience. He briefly discussed the current and planned programs for the Department. Rowan ASCE Student Chapter President, **Kelly Ann Winn** also thanked the Jersey Branch and the Phila. Section, ASCE for their courtesies. She introduced her fellow officers: Vice President, **Katharyn Gallagher**; Secretary, **Laura Nastasi**; Treasurer, **Josh Davis**.

Kelly described her school's hosting of the 2003 Metropolitan Regional Model Steel Bridge and Concrete Canoe Competitions; and a program of informing the community – especially young people – on what Civil Engineering is all about; and many other activities in a busy agenda.

DeLury Introduces Speakers

Phila. Section, ASCE Director **Walter J. DeLury, Jr.** introduced the evening's featured speakers, each of whom reported on a separate aspect of the project.

Overview by Mr. Peirce

John Peirce, P.E., Principal of Peirce Engineering (and the Section's 2002 Philadelphia Civil Engineer of the Year), opened the presentation with an overview of his experience with Geotechnical Engineering and Design as well as past uses of Acrow temporary bridges. He first designed a project with such a structure as part of the rehabilitation of US Route 22 in the Lehigh Valley in 1998. Since then, this type of bridge has been utilized on over 25 projects designed by Peirce Engineering.

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Acrow History by Mr. Joosten

Mark Joosten, Vice President of Acrow Corporation, gave a short history of the company. It has been in business since 1951 and provides various types of steel panel bridges in a worldwide market. The original design of the panel bridge, the well-known Bailey bridge, was used extensively in the European theater during World War II. Acrow held the patent rights on the Bailey bridge until 1968.

The temporary structures produced by Acrow vary from 12 feet to 46 feet in width and can cover distances anywhere from 10 feet to 300 feet in a single span. Acrow also markets what it calls "superprops", or temporary column-type supports which can be used for emergency response situations. Mr. Joosten explained the use of temporary bridges and supports in several instances, including the Mianus River bridge collapse on Interstate 95 in Connecticut and soil liquefaction under bridge piers in Maryland.


Acrow Addresses WTC Access Problems


Acrow was called in to the World Trade Center site in January 2002 to address a problem related to access ramps to the "bathtub," as it was called. Ramps had been constructed on debris, and the debris had to be removed to continue recovery efforts. Thus, the on-debris ramps would have to be rethought. The easiest and most efficient solution was a temporary bridge that would allow the removal of the ramps.

Mr. Hummel on Structure Details

Matthew Hummel, P.E., Project Engineer for Acrow, presented the details of the temporary structure. The ramp would consist of a 460-foot, 5-span, 2-lane structure on a 12.5% grade. It consisted of four 100-foot spans and one 60-foot span. The ramp would access Liberty Street on the south side of the bathtub and would drop roughly seven stories from street level to the basement floor. Each span of the ramp structure was designed to act as a simple span, which is the norm for such bridges, but this presented a problem in the erection of the facility. Site constraints

(Continued on Page 9)





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At the February Joint Dinner Meeting: (left to right) Mark Joosten, Matthew Hummel, both of Acrow Corporation of America; Soheila Rahbari, South Jersey Branch President; John Peirce of Peirce Engineering; Walter DeLury, Philadelphia Section Director; Ruben David, Philadelphia Section President.

February Joint Dinner Meeting

(Continued from Page 8)

dictated that the first span had to be placed in mid-structure instead of the normal method of starting at either end. As a result, the span had to be lashed down to guard against sliding.

Challenges and Unknown Problems

Mr. Hummel explained that the first pier from the street was being sited on an uncertain footing. The piers were all to be placed resting on the basement slab, which was the "bottom" of the site for all intents and purposes. At the first pier location, between the existing slurry wall of the bathtub and the Port Authority Trans-Hudson (PATH) rapid transit tunnel, there was no knowledge of the nature of bearing material in this space. During construction, it was learned that there was no actual constraint found and this area could support the pier.

The deck could not be surfaced with bituminous material, as is the normal case, since there was a concern that the asphalt would slide and shove on the extreme grade, especially when some of the high anticipated loads were considered. An anti-skid epoxy, similar to that used on aircraft carrier decks, was applied as the surface material.

Noteworthy Construction Successes

Mr. Hummel noted that the construction went fairly smoothly and the ramp was opened in early March, roughly one month ahead of schedule. This permitted the excavation of the former debris ramp embankment, where eyewitness reports indicated that a fire engine could be buried. This was verified shortly after excavation began, and many firefighters' bodies were recovered.

Once the ramp was in place and opened, a second ramp was started to access the west side of

the site, reaching West Street. This structure had a 130-foot clear span and 30-foot width.

The ultimate test of the first ramp came when a memorial column was decided to be removed from the debris ramp area. The column was calculated to weigh 80 tons and would prove to be a challenge to transport up the ramp. It was carefully (and successfully) transported from the site on the structure.

Future Change Requirements Reviewed

Mr. Joosten closed the presentation with a report on the first ramp. Attempts are being made to return PATH train service to the site in some form. This may require a change in the first span of the first bridge from 100 feet to 140 feet. This is still being reviewed.

Questions, Answers and Comments

Several questions were posed by the attendees. On the support of the footings, it was explained that they were dowelled into the basement slab. Another concerned the debris removal for the pier locations. This proved to be difficult since the entire site is considered a burial ground and any debris removal had to be performed very carefully.

Many additional deep, probing questions and discussion of the myriad challenges and problems encountered in this incredibly difficult and complex project, especially the requirements of speed, ingenuity in erection scheduling and procedures – and most importantly – recovery operations careflessness on the entire site, were expertly addressed by our competent speakers.

Following the question and answer period, Messrs. Peirce, Joosten and Hummel received Gifts of Appreciation from Section President Ruben David.



Christopher Menna receiving the 2003 Delaware Valley Young Engineer of the Year Award from Lucia Chan during the Engineers' Week banquet held on February 22, 2003 at the University of Pennsylvania.

Geotechnical & Structural Course

(Continued from Page 11)

Structural Engineer specializing in deep foundations with emphasis on driven piles. He recently retired from Pile Dynamics, Inc. and Goble Rausche Likins and Associates, Inc., firms that he founded and that specialize in dynamic testing of deep foundations. Involved in deep foundations work for more than 35 years, he led the project that developed the Pile Driving Analyzer and other devices and methods for control of deep foundation installation. He also has several years of experience in foundation design as a Structural Engineer. Dr. Goble was on the structural engineering faculty of Case Western University for 15 years and spent another 15 years at the University of Colorado, serving as Chairman of the Department of Civil Engineering at both institutions. He holds his PhD from the University of Washington.

About Engineering Outreach

Recognizing that today's engineering and science professionals need to continually update and expand their knowledge, the University of Delaware instituted the Engineering Outreach Program in January 1994. Graduate courses scheduled at professionally convenient times (late day, evening and/or on video) can be taken as individual courses or as part of a non-thesis or traditional master's degree program. These courses are the same – not separate – courses as those taken by our full-time graduate students, creating an opportunity for excellent exchange of industrial and research-oriented perspectives.

Constant interaction with industry results in an understanding of specific needs better addressed through short courses, such as the one in which you will be participating here on campus. In addition, Engineering Outreach offers a video FE review course, on-campus PE review courses in chemical, civil, electrical, environmental and mechanical engineering, and a video review course for environmental engineering. We welcome your ideas for the creation of short courses to be offered in the future.

PHILADELPHIA SECTION, ASCE HUMPHREY FUND SCHOLARSHIPS

The Philadelphia Section, ASCE, is pleased to announce the availability of the following types of undergraduate scholarships for 2003. Scholarships will be awarded at our Annual Spring Social Dinner-Dance, on **Friday, May 2, 2003**, at the Sugarloaf Conference Center, Temple University, Chestnut Hill, PA.

Type of Award:

We recognize that the different colleges have differences in the regulations as to scholarships, stipends and awards. It is the Philadelphia Section's intent to provide these awards to give the maximum financial support to the individual engineering student within his/her college's rules. Therefore, the form of award will be that most beneficial to the student consistent with his/her college regulations. Unless indicated otherwise by the student, a check in the name of the award recipient will be presented. No two (2) scholarships will be awarded to the same student.

Scholarship Type 1

It is anticipated that up to three (3) scholarships, each worth up to \$2,000, will be awarded. The number and amount of the actual awards remains at the discretion of both the Section's Scholarship Committee and the Section's Board of Directors.

Eligibility Requirements:

1. The student must be matriculating in a full-time Civil Engineering or Architectural Engineering program in one of the six-(6) colleges in the Philadelphia Section region (Drexel University, University of Pennsylvania, Swarthmore College, Temple University, Villanova University or Widener University).
2. The student must be an active participant in the ASCE Student Chapter.
3. Students in their sophomore and junior year (and Pre-Juniors at Drexel) are eligible to submit.

Submission:

The candidate must submit the following to his/her Faculty Advisor:

- An essay, limited to 1,000 words, on "Why become a civil engineer?" is required.
- The candidate's name, GPA and/or class rank and an address/telephone number where they can be reached must be included. Additional information for consideration (such as need) is allowed. A letter and/or resume is an acceptable means to provide this information.

Faculty Advisor Evaluation:

Each Chapter's advisor will evaluate all their candidates and select two (2) for submission to the Philadelphia Section's Scholarship Committee (address under "Deadline" below). The GPA and/or class rank should be verified as they may be used by the Scholarship Committee in their evaluation. If the university does not release class rank, the advisor should provide some indication as to the candidate's standing. The advisor will formally nominate these candidates by including a

letter of endorsement from a member of the faculty along with the submission.

Section Evaluation:

The Section Scholarship Committee will evaluate all nominations and select award recipients for scholarships or other form of stipend.

Awardees will be invited guests at our Annual Spring Social Dinner-Dance on **May 2, 2003** to receive their awards and will be asked to participate in future ASCE educational outreach activities.

Submission Deadline:

Submissions must be made to the faculty advisor by Wednesday, **March 14, 2003**. Faculty Advisors must submit their nominations to **Mr. Allan F. Moore, Jr., PE**, President-Elect of the Philadelphia Section, ASCE at Philadelphia Section - ASCE, P.O. Box 58186, Philadelphia, PA 19102-8186 postmarked by Friday, **March 21, 2003**. The President-Elect will forward all submissions to the Section's Scholarship Committee.

Scholarship Type 2

One (1) scholarship, worth up to \$2,000, will be awarded.

Eligibility Requirements:

1. The student must be the child of an active Philadelphia Section member.
2. The student must be matriculating in a full-time Civil Engineering or Architectural Engineering program
3. The student must be an active participant in the ASCE Student Chapter.
4. Students in their sophomore and junior year are eligible to submit.

Submission:

To apply for this scholarship, the candidate must submit the following:

- An essay limited to 1,000 words on "Why become a civil engineer?" is required.
- The candidate's name, GPA and/or class rank and an address/telephone number where they can be reached must be included. Additional information for consideration (such as need) is allowed. A letter and/or resume with an official transcript are an acceptable means to provide this information.
- Two letters of recommendation. One must be from one of the civil engineering program faculty members, and the other may be from another faculty member, present or past employer, or other responsible person. The recommenders should send their letter of recommendation directly to the Section's President-Elect at the address noted under "Submission Deadline", to arrive no later than the deadline date.

Section Evaluation:

The Section's Scholarship Committee will evaluate all submissions and select the award recipients.

Awardees will be invited guests at our Annual Spring Social Dinner-Dance on **May 2, 2002** to receive their awards and will be asked to participate in future ASCE educational outreach activities.

THANKS TO OUR SPONSORS

We have expanded our Section Sponsorship program this year. 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. This support helps the Phila. Section provide our various activities and programs for our membership. This indirectly helps our community as well, as we continue to expand our outreach programs to "spread the word" as part of our VOICE (Volunteering In Civil Engineering) effort.

Various benefits are available to your firm as a Section sponsor. Your business card appears in THE NEWS, and this remains the most visible evidence of your support. If you have attended any of our Section meetings thus far, you have also seen our poster with your logo on it prominently displayed in the meeting room.

Several of you have taken advantage of the Meeting Sponsor opportunity available to Section sponsors. 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. If you have not yet signed up to sponsor an upcoming meeting, and would like to do so, please let us know. We have four Section meetings remaining this season and not all have been slated for sponsors.

You are able to place two employment want ads on the Section website during the season, free of charge. Again, if you require this service, we can offer it to you.

You are eligible for two free dinners at any Section meeting during the season, not including the Spring Social. And, speaking of the Social (it is literally right around the corner, **May 2, 2003**), your business card ad will be included in the event program for our annual Spring Social and Dinner Dance. This year, the Social will highlight our 90th Anniversary.

We hope this reminder is useful for you, and we hope you will take full advantage of the benefits your firm has as a Section sponsor. We thank you for your continued assistance and generosity in this regard.

Submission Deadline:

Submissions must be made by **Friday, March 21, 2003** to **Mr. Allan F. Moore, Jr., PE**, President-Elect of the Philadelphia Section at Philadelphia Section - ASCE, P.O. Box 58186, Philadelphia, PA 19102-8186.

ASCE MET SECTION GEOTECHNICAL GROUP

in conjunction with The Deep Foundations Institute and ADSC: The International Association of Foundation Drilling present

Earth Retention Systems 2003: A Joint Conference

Tuesday and Wednesday
May 6 & 7, 8:15 a.m.

LOCATION: CUNY Graduate Center,
Proshansky Auditorium, 365 Fifth Avenue
(NE Corner of Fifth Ave and 34th St), Manhattan

This information-packed conference will focus on both traditional and state-of-the-art technology in the selection, design, construction, and performance of earth retention systems. Several case histories on local, national, and international projects will be included. Conference speakers are experts in their field — representing designers/engineers, academics, local and specialty contractors. There will also be exhibits by specialty contractors and manufacturers and suppliers of related products and services. All attendees will receive conference proceedings.

Featured Speakers: Tom Armour, DBM Contractors; Marco Boscardin, Boscardin Consulting Engineers; Ray Castelli, Parsons Brinckerhoff; George Filz, Virginia Tech; Ed Forte, Underpinning and Foundation; Bernie Langan and Ryan Linticum of Langan Engineering; Tony Mazzo, Urban Foundation/Engineering; Tom O'Rourke, Cornell University; Andrew Peterson of CATOH and Jim Stewart of John P. Stopen Engineering; Hayward Baker; Tom Richards, Nicholson; Gerhard Sauer, Dr. G. Sauer Consultants; Rick Slack, Richard Goettle, Inc.; George Tamaro, Mueser Rutledge Consulting Engineers; David Yang, Raito; and Stephen Young, ARUP

The early registration fee (i.e., before Tuesday, April 1st) of \$425 includes: admission to conference and exhibits, conference proceedings, continental breakfast, conference lunch, and coffee breaks both days, and evening reception on May 6. After Tuesday, April 1st, the registration fee will be \$475. One-day passes are also available. Please register early, as space is limited. For your convenience, a limited number of rooms have been blocked at nearby hotels at a preferred rate for seminar attendees. Opportunities are available for sponsorship, exhibition, and/or for your company to advertise in the conference proceedings.

For more information and to register, visit the Met Section Geotech Group web page at http://sections.asce.org/metropolitan/tech_groups/geotech.html or contact **Richard Prust**, Met Section Geotech Group Vice Chair, at (212) 510-2112.

Please visit www.earthretention2003.org for more details.

SELF-STUDY COURSES ON STEEL CONSTRUCTION OFFERED

The Steel Structures Technology Center (SSTC) now offers self-study correspondence courses on steel construction, with a package now available on high-strength bolting. The bolting courses are based upon the Research Council on Structural Connections "Specification for Structural Joints Using ASTM A325 or A490 Bolts" June 2000 edition, and the American Institute of Steel Construction specifications.

Seven courses on high-strength bolting are offered: Bolted Joints; Bolting Materials and Usage; Turn-of-Nut Installation; Twist-Off-Type Tension-Control Bolt Installation; Direct Tension Indicator Installation; Calibrated Wrench Installation, and Bolting Inspection.

Participants are provided written study materials and assigned additional reading tasks, then take a written examination to confirm understanding of the material. A 70% success rate is necessary for passing each exam. The seven courses may also be taken as a complete package, and successful completion of all seven courses will earn a special Certificate of Completion from the SSTC. For this Certificate, an average exam pass rate of 80% is required, with no individual section below 70%.

Courses may be taken for general educational needs or for formal continuing education credit, earning 0.1 Continuing Education Units / 1 Professional Development Hour per course, with the exception of the Bolting inspection course, which offers 0.2 CEU / 2 PDH credits. Courses are offered at \$30.00 each, which includes the written course materials, examination, examination grading, and a confirming letter upon successful completion. For the seven-course package, the total fee is \$150.00. All course materials and examinations are distributed by email, but may be mailed by special request.

For further information on the high-strength bolting courses or examinations, contact the **Steel Structures Technology Center**, 24110 Meadowbrook Rd., Suite 104, Novi, MI 48375, phone (248) 893-0132, or visit their website at www.steelstructures.com.

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

Rubenddavid2@juno.com

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

ENGINEERING OUTREACH UNIVERSITY OF DELAWARE

present

Geotechnical & Structural Design and Construction Monitoring of Deep Foundations

April 24, 25, & 26 2003

Developments in recent years in materials, construction equipment and construction monitoring have revolutionized the deep foundation industry. Through a coordinated series of lessons, practicing national experts Jerry DiMaggio and George Goble will lead you through the latest technology and provide lessons learned from actual field experiences. This practical course is essential for those involved in any aspects of the increasingly complex and multidisciplinary field of deep foundations.

This is this course so important for YOU?

- Eliminates confusion regarding limit states when using Allowable Stress and Load & Resistance Factor Design approaches
- Describes the appropriate selection of deep foundation types based on subsurface conditions, and discusses the advantages and disadvantages of the various systems
- Provides a summary of non-destructive testing methods for deep foundations
- Emphasizes quality control and assurance with respect to installation and construction monitoring of driven piles
- Improves communication between design and construction personnel, thereby addressing safety factors and confidence limits

Who Should Attend

This course was developed for geotechnical specialists, structural designers, engineering geologists, and deep foundation contractors and materials suppliers involved in design and construction monitoring of driven piles, drilled shafts, auger cast and micropiles.

Presenters

Jerry A. DiMaggio, P.E., is a principal Geotechnical Engineer with the Federal Highway Administration and is a member of the adjunct faculty at the University of Delaware and Johns Hopkins University. With over 30 years of experience in geotechnical and foundation engineering practice involving deep foundation and earth retaining structures design and construction monitoring, he has become well known in these fields. He serves on numerous national committees and task forces related to the development of technical guidelines, specifications and testing standards related to geotechnical and foundation practice, and has presented more than 250 seminars and workshops for professionals in design and construction of bridges, retaining walls and earthworks. Mr. DiMaggio holds a BS and MS in geotechnical engineering from Clarkson University and is a Registered Professional Engineer in several states.

George G. Goble, PhD, P.E., is a Consulting

(Continued on Page 9)

JOIN THE SECTION'S TECHNICAL GROUPS

Construction

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(215) 922-8080

Structural

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Manager, Bridge Division
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514 Pennsylvania Avenue
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AKM

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President

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mayhew@taylorwiseman.com

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, April 10, 2003

Joint Dinner Meeting with the Construction Management Association of America (CMAA) • Union League • “City Planning” • Speaker, Dr. Gary Hack • University of Pennsylvania and Widener University Night • Past Presidents’ 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 @ _____
- US Postal Service mail THE NEWS to me at home or at work
- E-mail and USPS mail THE NEWS to me at home or at work

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 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.

ASCE AND NSPE JOIN TO SAVE TEA-21

Editor’s Note: The following is an excerpt from the March 2003 edition of NSPE Engineering Times.

When engineers from NSPE and the American Society of Civil Engineers sweep Capitol Hill this month on Engineers on the Hill Day, their top priority will be the reauthorization of the Transportation Equity Act for the 21st Century. TEA-21, the largest public works bill in history, has flushed billions of extra dollars into the nation’s surface transportation programs.

First, engineers are pushing for enough funding to meet infrastructure needs. Second, they want to make sure that the maximum amount of allotted money gets to the right transportation projects. Keeping as much funding as possible in the Highway Trust Fund, rather than diverting it

to the general federal fund, is one way to help accomplish the nation’s surface transportation goals. But not every organization or legislator agrees on the same way to reauthorize TEA-21. Not even close.

Much of the debate surrounding the TEA-21 reauthorization hinges on whether to raise the gas tax to cover necessary increases in funding. The overshadowing concern is that there may not be enough money in the weakening federal budget to pull off the large increase in transportation funding that would be needed to carry out projects.

Economic times are tougher now than they were in 1998, when TEA-21 was enacted. Building on the initiatives established by the six-year Intermodal Surface Transportation Efficiency Act, TEA-21 raised funding for highway and transit programs by 40%. TEA-21 expires on September 30, 2003.