

the news



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The Sidney Robin Memorial Newsletter of the Philadelphia Section ASCE

Vol. 78-2

Our 93rd Year

October 2005

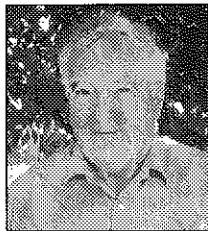
OCTOBER DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

TUESDAY, OCTOBER 18, 2005

Union League • 140 South Broad Street (at Sansom Street) • Center City Philadelphia
Cocktails 5:30 PM • Dinner 6:30 PM • Meeting Presentation 7:30 PM

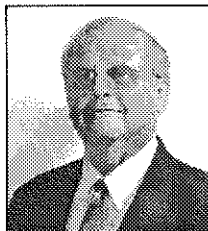
SUBJECT: The Center City Commuter Rail Connection — 20+ Years of Operation
SPEAKERS: PANEL DISCUSSION: Bernard Goldentyer, Retired, and Michael Griffin, Retired, International — Challenges Faced by the Owner; James Toth, STV, Inc. — Design Challenges; Joseph McAtee, Urban Engineers — Construction Challenges



Bernard Goldentyer



Michael Griffin



James Toth



Joseph McAtee

RESERVATIONS MUST BE SUBMITTED BY WEDNESDAY, OCTOBER 12, 2005. Please send your check for the number of attendees at \$30 per member or guest, \$15 per ASCE Student Member. Checks should be made payable to "Philadelphia Section ASCE" and sent to ASCE, PO Box 58186, Philadelphia, PA 19102-8186. Reservations can also be made on the Electronic Message Center, **800-461-4190**, or via e-mail at info@asce-philly.org. Walk-ins will be subject to acceptance on a space-available basis. **THERE IS NO GUARANTEE THAT SPACE WILL BE AVAILABLE IF YOU DO NOT RESERVE A SPACE.**

SPECIAL FEATURE: Drexel University Night. The ASCE Student Chapter, Faculty and Alumni of Drexel University will be honored at this meeting. All Students, Faculty and Alumni are cordially invited to participate.

The Center City Commuter Rail Connection (CCCRC, also known as the Commuter Tunnel) was an effort first envisioned in the 1930's when the executives of two then-private rail operators, the Pennsylvania Railroad and the Reading Company, proposed a connection of their services. This would link the lines that stub-ended at the respective terminals at Suburban Station and Reading Terminal. The resulting link would improve operational efficiencies of the Philadelphia commuter railroad network and end the one-way loading (to Center City in the morning, away from Center City in the evening) that the lines faced.

The idea remained just that until it was again considered in 1958, as part of the massive redevelopment of the Pennsylvania Railroad's Broad Street Station complex into what is now Penn

Continued on Page 7

TECHNICAL GROUP ACTIVITIES

Construction/Engineering Management
Technical Groups

Joint Meeting

DATE: Wednesday, November 2, 2005, 12 Noon

SUBJECT: Rebuilding Efforts in Iraq

SPEAKER: Charles A Mouzannar, P.E.,

AMEC Earth & Environmental, Inc.

LOCATION: Municipal Services Building (1401 Kennedy Blvd.), 16th Floor, Conference Room E

COST: \$10. (includes lunch)

Reservations should be made with Group Chairs **Bill Mulloy** at (215) 656-6583 or **Dennis MacBride** at (215) 580-3404 by October 26, 2005.

AMEC Earth & Environmental, Inc. was awarded multiple Task Orders by the Air Force Center for Environmental Excellence (AFCEE) for the reconstruction of military bases in Iraq. This \$200 million program involves reconstruction work at multiple sites across Iraq and include buildings, infrastructure, and other civil and site structures. This work is progressing in a Fast-Track mode under extremely challenging security conditions.

Mr. Mouzannar will provide an overview on the challenges involved in the execution of this most important project. He has over 18 years of experience in the Design/Build, Construction Management, and Engineering fields. He has served as Project Executive on several major construction programs in the United States and overseas. In his capacity of Vice President - Iraq Reconstruction, he is in charge of managing the AMEC Earth & Environmental, Inc (AMEC) Iraq Operations.

**Environmental and Water Resources
Technical Group**

Fall 2005 Schedule

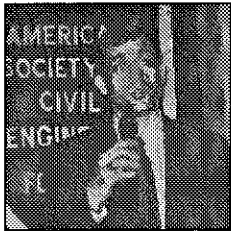
DATE: Wednesday, October 26, 2005; 12 noon

SPEAKER: Bob Bauer, PA DEP

SUBJECT: Athos I Oil Spill Cleanup

LOCATION: PA DEP Southeast Regional Office,

Continued on Page 3



PRESIDENT'S MESSAGE

Let's first take a moment to think of some special people — **Walt DeLury** and those affected by Hurricane Katrina in the Gulf Coast. As I stated at my acceptance speech, Walt is not forgotten, and all the Section's efforts will be dedicated to him this year. I am sure that he will be smiling as he looks down on us. As for our fellow Americans suffering, they must be patient and ever vigilant to start anew. It will be Civil Engineers and constructors in the forefront that will bring the region to normalcy. This is a time for our profession to rise to the occasion and to show others that we can not only gain control of, but also improve upon the Gulf Coast's infrastructure. I ask that you think of those suffering and that you consider reaching out in some way to help those in need.

When you become President, many colleagues make suggestions to you. One popular suggestion that you will get is, "pick a pet project and carry it through to completion — this is what you may be most remembered for." I did give this suggestion some thought, but opted against it. My standpoint will be to maintain what we have and to bring to closure those special, unfinished projects. The two special projects that I would like to help bring to completion this year are the formal celebration of City Hall as an ASCE National Historic Civil Engineering Landmark (NHCEL) and the publication of a Civil Engineering Landmark Guide for the Greater Philadelphia Area. Very dedicated Section Board members started these projects. It is only fitting that we strive to complete these tasks as a testimony and as recognition for their past efforts.

Having worked for government agencies, heavy contractors, and consultants, there is one theme that I learned early on that applies here — the one who shows leadership and regularly brings projects to completion is very valuable. We all strive to become this type of person to some degree. This person is known as: "the closer." So, I will try to be that "closer" and see to it these worthy, monumental projects get done this year.

In closing I would like to say that I am very excited about the upcoming year. Much planning has already taken place and you can be assured of another great year. I would like to thank those past Board members who have laid the groundwork for this year's program. I also look forward to working with the current Board and thank them in advance for all that they have pledged to do this year. This is a great time to be a Civil Engineer. Get involved!

Sincerely,
Christopher J. Menna, P.E.
President — Philadelphia Section, ASCE

THE PAST PRESIDENTS AT APRIL MEETING

Last month we ran this photo of the Past Section Presidents who were cited at the April Section meeting. Someone asked us, who are these guys (and girl)? Anyhow, here's who's who, for those of you who want to know.

Front (seated) — Sandra May (1998-99)

Front row (standing, from left) — Ken Zitomer (1979-80), Frank Depman (1990-91), Klaus Fuehleborn (1992-93), Joe Syrnick (1980-81), Allan Moore (2003-04), Larry Moy (1971-72), Brian Stover (2004-05).

Back row (from left) — Ruben David (2002-03), Darin Gatti (1997-98), Faruq Siddiqui (1999-2000), Bob Wright (1993-94), Bill Richards (1995-96), Bill Malarkey (1983-84), Jim McPhillips (1969-70), Bill Thomsen (1994-95), Ira Pierce (1985-86), Bob Koerner (1975-76), Al Zion (1996-97).

Thanks again to all of our Past Presidents who were able to attend and also to those who could not make this event.



The 18 ASCE Philadelphia Section Past Presidents who attended Past Presidents Night in April, with the "almost" member of this group, then-President **Brian Stover** (second from right).

SECTION WEB SITE!

Check us out at www.asce-philly.org. Make sure you bookmark this site to check on our best 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.

SECTION OFFICERS AND BOARD OF DIRECTION — 2005-06 SEASON

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Philadelphia Department of Streets

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Allan F. Moore, Jr., Phila. International Airport
Ruben D. David, Phila. Capital Program Office

PRESIDENT, READING BRANCH

Gerald Donnelly, STV, Inc.

President — Christopher J. Menna, P.E.

Senior Project Engineer
Philadelphia Department of Streets,
Bridge Section

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NOVEMBER '05 ISSUE

OCTOBER 21, 2005

YOUNGER MEMBER FORUM NEWS

By James Markham, Forum Editor

Jeremy Colello, Forum President 2005-06
 Pennoni Associates, Inc.
 3001 Market Street
 Philadelphia, PA 19104
 (215) 222-3000
 jcolello@pennoni.com

Message from the President

On behalf of the Philadelphia Section, ASCE, I would like to take this opportunity to welcome all of the new Younger (and young-at-heart) Members. For the recent college graduates, welcome to the first step in your career. For those of you new to the region, Welcome to Philadelphia!

Like many of us, recently I have found myself glued to CNN watching the devastating impact of Hurricane Katrina on the Gulf Coast. All of us, as Civil Engineers, have an acute sense of the overwhelming impacts to the region. While we all share in the grief, we can also be proud. We can be proud of our colleagues, from here in Philadelphia and around the country, who are aiding in the efforts today. They are reminding us why we became Civil Engineers — to improve people's lives.

In consideration of the recent events in Louisiana, Mississippi and Alabama, we have decided to turn our traditional kick-off Happy Hour into a fund-raiser for the Hurricane Katrina recovery efforts. All proceeds from the event will be sent to our Younger Member colleagues along the Gulf Coast. They will use the funds to purchase and hand deliver food, clothing and supplies to families that were forced to leave everything behind. I hope to see everyone on the 29th.

Upcoming Activities

Thursday, September 29, 2005; 5:30 PM
Fundraiser Happy Hour
 Fado, 1500 Locust Street
 \$10 donation

Please join your fellow ASCE members at our annual kick-off Happy Hour to raise money for those impacted by Hurricane Katrina. All proceeds will be sent directly to the Louisiana ASCE Younger Member Group. These funds will be used to purchase necessary food, clothing and supplies and deliver directly to shelters in the Gulf Coast Region.

Please RSVP by September 26, 2005 to
Jeremy Colello (jcolello@pennoni.com).

Thursday, November 3, 2005; 4 PM
PennDOT 6-0 Traffic Control Center Tour
 7000 Geerdes Boulevard, King of Prussia, PA

Join ASCE and MASITE for a joint tour of PennDOT District 6-0's Traffic Control Center. The tour will give you a behind the scenes look of the Control Center during rush hour. Please RSVP to **Dave Petrucci (dpetrucci@pennoni.com)** by October 27, 2005.

NOVEMBER DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

THURSDAY, NOVEMBER 17, 2005

Union League • 140 South Broad Street (at Sansom Street) • Center City Philadelphia
 Cocktails 5:30 PM • Dinner 6:30 PM • Meeting Presentation 7:30 PM

SUBJECT: Philadelphia Combined Sewer System and Natural Drainage Methods
SPEAKER: Howard Neukrug, Director, Office of Watersheds, Philadelphia Water Department (PWD)

Mr. Neukrug will discuss the efforts PWD is undertaking to better manage stormwater and alleviate flooding and property damage. PWD, in conjunction with other City departments, is developing innovative programs and strategies in this effort.

Member Spotlight

Michael Wagner is a Structural Engineer for Urban Engineers. Mike joined Urban in 2001 and currently works in their Bridge Department. A graduate of the University of Hartford in West Bloomfield, CT in 2000, he earned his graduate degree from Drexel in 2003 while working at Urban. While at Urban Mike has worked on many different projects. He has worked on the design for widening of 5 bridges on the Pennsylvania Turnpike from Valley Forge to the Schuylkill River and is currently working on a similar project for the Turnpike on the North East Extension. Along with those projects and other bridges for PENNDOT, Mike has also helped out other departments for Urban. Included in those projects are structural designs for a new train station for NJ Transit as well as structural design for multiple locomotive repair facilities for Norfolk Southern. The repair of a warehouse damaged by heavy snowfall and the design of a working platform for docking large ships at Tioga Marine Terminal on the Delaware River are other interesting and unique projects in which Mike has been involved.

Mike currently serves as the Technical Groups Chair on the Board of the Younger Member Forum of the ASCE. He and his wife, Allison, are looking forward to moving into their new house in Swedesboro, NJ in November. Mike loves anything outdoors but especially enjoys skiing, fishing, and mountain biking.

Environmental and Water Resources Technical Group

Continued from Page 1
 2 East Main Street, Norristown, PA
 COST: \$10

Bob Bauer, Water Quality Field Supervisor and member of PA DEP's Emergency Response Team, will discuss the multi-agency cleanup effort following the Athos I incident. In November 2004, the Athos I spilled 18,000 gallons of oil in the Delaware River and impacted 126 miles of shoreline. The resulting cleanup effort took place over several months and included more than 1,700 responders and 15 vessels. Please RSVP to **Jeremy Colello (jcolello@pennoni.com)**, (215) 222-3000 x3514 by October 21, 2005.

DATE: November 30, 2005; 12 noon

SPEAKER: Lori Reynolds, EPA

SUBJECT: Schuylkill Action Network

LOCATION: Municipal Services Building, 16th Floor, Conference Room D; 1401 Kennedy Blvd.; Philadelphia, PA

COST: \$10

The purpose of the SAN is: "To improve the water resources of the Schuylkill River watershed by working in partnership with state agencies, local watershed organizations, water suppliers, local governments, and the Federal government to transcend regulatory and jurisdictional boundaries in the implementation of protection measures." Please RSVP to **Jeremy Colello (jcolello@pennoni.com)**, (215) 222-3000 x3514 by November 23, 2005.

DATE: December 13, 2005; 12 noon

SPEAKER: Lorna Rosenberg, EPA

SUBJECT: Delaware Valley Green Building Council

LOCATION: Municipal Services Building, 16th Floor, Conference Room C; 1401 Kennedy Blvd.; Philadelphia, PA

COST: \$10

Lorna Rosenberg is the Executive Director of the DVGBC. The DVGBC is the primary point of contact for users, agencies, and companies that are interested in sustainable communities and is a leader in fostering cooperation and collaboration among organizations dedicated to environmental responsibility and green planning, design and construction. The objective of implementing green building design and construction practices is to improve site planning; to safeguard water and ensure its efficient use; to maximize energy efficiency, conserve materials and resources and insure indoor environmental quality. The goal is to significantly reduce or eliminate the negative impact of buildings on their occupants and on our environment. Please RSVP to **Jeremy Colello (jcolello@pennoni.com)**, (215) 222-3000 x3514 by December 9, 2005.

Men flourish when their behavior suits the times and fail when they are out of step.

— Machiavelli

THE 2005 SPRING SOCIAL

Close to 100 ASCE, Philadelphia Section members, spouses and guests attended the Annual Spring Social and Dinner Dance, conducted on Friday, May 6, 2005 at the Villanova University Conference Center in Radnor.

As usual, the traditional induction of new Officers and Board Members was the main order of business at the Social. Former ASCE District 4 Director and Section Past President **Joe Synchronick** presented the oath of office to the new officers as well as those completing the second years of their terms.

Outgoing Section President **Brian Stover** presented a brief overview of his successful year. He thanked the Section Board and Officers for their support and assistance before handing the gavel to the incoming President, **Christopher Menna**.

The Section's top awardees in the Delaware Valley Science Fair were invited to attend the Social and display their winning projects. Special recognition was given to **Timothy Adams**, a 6th grade student at St. Andrew the Apostle School in Drexel Hill (Grades 6-8 winner), who was present with his parents and sister. **Mark LaSorda**, a junior at Methacton High School (Grades 9-12 winner), was unable to attend.

The Future City team of **St. John the Evangelist School** was in attendance with its model. This school, in Lower Makefield Township, Bucks County, received the Section's Special Award at the Future City competition in January.

The Section Awards for 2005 were also a highlight of the evening. This year, seven Section Award recipients were cited, mainly through the audiovisual show that has become a Section standard. Information on each of the awardees follows.

Philadelphia Civil Engineer of the Year

This year, the Section's highest honor, the Philadelphia Civil Engineer of the Year, was presented to **Anthony W. Eith**. Tony is the Director of Engineering for the East Group of Waste Management, which is located in Fairless Hills, Bucks County. His responsibilities include the design, permitting, construction and certification of environmentally-friendly solid waste facilities, as well as the management of engineering and environmental service groups. He has been with the firm for the past twenty years and has twenty-nine years of experience in the solid waste field. He directs the operations of roughly fifty of Waste Management's facilities which service the northeastern United States. He must strategically plan the long-term development of these disposal facilities through the tracking and forecasting of available capacity. This requires an ongoing working relationship with various regulatory agencies. To do this, he has a staff of over seventy personnel and an annual capital construction budget in excess of three hundred million dollars.

Tony obtained degrees from the University of Louisville, with a Bachelors in Civil Engineering in 1974 and a Masters in Engineering in 1975. In 1995, his efforts and work earned him the honor as the Section's Geotechnical Engineer of the Year. Tony, his wife Teri, and their two children reside in Marlton, New Jersey.

Young Civil Engineer(s) of the Year

The Section cited two members for our Young Civil Engineer of the Year honors.

James P. Markham is Manager of Transportation with Pennoni Associates in University City. He has been with Pennoni for the past six years, following five years at another firm. At Pennoni, he is involved in transportation design for various public and private sector clients. He is a key part of the development and review of highway occupancy permits for PennDOT. Additionally he provides services as the Township Traffic Engineer for several local municipal clients and has a particular focus on Bensalem Township, Bucks County.

Jim received his Bachelors degree in Civil Engineering Systems from the University of Pennsylvania in 1993. He has been very active in the Section and serves on the Section's Board of Directors as well as a staff writer for our newsletter, THE NEWS. He is also an active member of the Younger Member Forum. Earlier this year, Jim was one of two recipients of the Delaware Valley Young Engineer of the Year. Jim lives in Queen Village. In October, he and his fiancé, Ann Louise Schanze, plan to marry.

Thomas W. Brady recently became Manager, Transportation Engineering at the Exton office of the Louis Berger Group. He has 11 years of experience with two other consulting firms. He handles various aspects of highway and transportation design, including geometric design, construction plan preparation, traffic design and project management. He has been a part of several PennDOT and Turnpike projects in the area and managed the recently-completed roadway relocation and improvements in University City as part of the University of Pennsylvania's Veterinary School expansion.

Tom earned his Bachelors degree in Civil Engineering from Drexel University in 1993 and a subsequent Masters degree from Villanova University in 1999. He is currently the Section's Membership Secretary and is involved in several Section activities. Earlier this year, Tom was cited as one of two recipients of the Delaware Valley Young Engineer of the Year honors. Tom, his wife Sharon, and their two daughters reside in Exton.

Water Resources Engineer of the Year

Dr. Robert G. Traver was the recipient of this honor. Rob is an Associate Professor in the Department of Civil and Environmental Engineering at Villanova University. He has been on the faculty at Villanova since 1988, and he specializes in mathematical and physical modeling of stream hydraulics, hydrology and water

quality. He is the Director of the Villanova Urban Stormwater Partnership, a research effort which has investigated and developed various methods to improve poorly-drained areas and handle rainfall runoff through combinations of both natural and engineered means. During the rainy summer we experienced last year, his methods were often cited in news media accounts.

Rob received his Bachelors degree in Civil Engineering from the Virginia Military Institute in 1978. He continued his studies at Villanova and earned his Masters in Civil Engineering there in 1982, followed by a Doctorate from Penn State University in 1988. He has authored several papers on the subject of natural drainage methods and has conducted various seminars and short courses on the subject as well. Rob and his wife, Pamela Potter, reside in Schwenksville.

Educator of the Year

Dr. Vicki Brown was selected as the recipient of this award. Vicki is an Associate Professor and Chair of the Civil Engineering Department at Widener University. She has a total of twenty years of service as a lecturer and professor at Widener and has been the Department Chair for the past four years. Her specialty and coursework is in structures, and her research is concentrated on composite materials and fiber reinforced polymer concrete, with a specific focus on design criteria for fiber reinforced polymer concrete. She has published numerous papers on these topics.

Vicki received a Bachelors degree in Civil Engineering Technology from the University of Pittsburgh at Johnstown in 1976. After some experience in industry and in teaching, she earned her Doctorate in Civil Engineering from the University of Delaware in 1988. She is active in several technical societies in addition to ASCE. In 1993, Vicki received the Lindback Award for Distinguished Teaching from Widener, the highest accolade bestowed on a lecturer at the school. Vicki, her husband Larry, and their three children live in West Chester.

Transportation Engineer of the Year

This year's awardee was **Susan L. Best**. Susan is with Urban Engineers and is the Assistant Director of Traffic Engineering and Intelligent Transportation Systems for Pennsylvania. She has been in this position for the past three years. In this capacity, she specializes in the areas of highway planning, facility design, and traffic planning, and provides traffic engineering support to other practice areas at Urban. She has a total of twenty-nine years of experience in traffic design at several local firms. She has been a key part of several projects in the region, including traffic flow improvements at the Mann Music Center and traffic control measures at Philadelphia International Airport.

Susan is a 1976 graduate of the University of Delaware, where she received her Bachelor's degree in Civil Engineering. In 1979, she earned a Masters degree in Civil Engineering from the California State University in Los Angeles. She

Continued on Page 5

2005 SPRING SOCIAL

Continued from Page 4

is an extremely active member of numerous professional societies and is the Senior Vice Chair of the Delaware Valley Engineers Week Council. Earlier this year, she was cited as the Delaware County Engineer of the Year by the Delaware County Chapter of the Pennsylvania Society of Professional Engineers. Susan, her husband, Fran Talarowski, and their son live in Havertown.

Geotechnical Engineer of the Year

The Section presented **Allen Cadden** with this honor. Allen was promoted to Principal and Director of Geotechnical Engineering at the West Chester office of Schnabel Engineering Associates last year, after serving as Manager of the office for seven years. In this capacity, he directs the office's activities. He has published over twenty-five peer review technical papers in geotechnical design. Additionally, he has presented numerous sessions on micropiles and earth support systems.

Allen is a graduate of Virginia Tech, where he received his Bachelors degree in Civil Engineering in 1986 and a subsequent Masters in Engineering in 1988. He is the Chair of the Delaware Valley GeoInstitute, the Section's Technical Group for the geotechnical specialty, and is a Past President of the Younger Member Forum. He was honored as the Section's Young Engineer of the Year in 1997, partly for his work in the revitalization of the Forum during his tenure as a Forum officer. Allen, his wife Kathleen, and their four children live in West Chester.

2006 ELECTRICAL TRANSMISSION CONFERENCE

All eyes will be on the Wynfrey Hotel in Birmingham, Alabama for the 2006 Electrical Transmission Conference — "Structural Reliability in a Changing World", to be conducted **October 15-19, 2006**.

The 2006 Conference is an exciting forum for transmission and substation engineers to exchange technical knowledge, via workshops, paper presentations, exhibits and tours. Some of the topics that will be covered include structural analysis, design, foundations, asset management and project case studies.

For additional information visit www.asce.org/conferences/sei06 or contact **Debbie Smith** at dsmith@asce.org or (703) 295-6095.

Baker

Michael Baker Jr., Inc.

2013 Chesham Road Suite 105 Trenton, PA 19104 Ph: 215-441-8888	951 College Road East Parsippany, NJ 08859 Ph: 973-734-2000	1818 Market Street Suite 3010 Philadelphia, PA 19102 Ph: 215-368-1230
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Challenged by

Scholarships

The Section Scholarship program provides scholarships to incoming juniors and seniors in the Student Chapters of the Section's six colleges. This year's recipients were **Drew Sirianni** of Drexel University and **William Fredericks** of Widener University, who accepted their awards at the Social. A third winner, **Steven Bhardwaj** of Swarthmore College, was unable to attend as he was part of a studying-abroad program.

Special thanks are extended to those who helped make the Awards Program a success once again this year. This includes the Program Committee (**Ruben David, Sandra May, Carol Martsoff, Chris Menna, Allan Moore, Brian Stover and Bob Wright**), the Awards audio narrators, who once again gave up a nice spring evening to donate their voices to the effort (**Carol Martsoff, Brian Stover and Bob Wright**), and the Awards Committee (**Sandra May, Carol Martsoff, Allan Moore, Brian Stover, Bill Thomsen and Bob Wright**).

And, of course, the Social could not have gotten off the ground without the energetic leadership provided by the coordinators of the event, Section Past President **Sandra May**, with the able assistance of Past President **Ruben David**. Helping this merry group in the festive decoration of the meeting room for the Social were **Brian Stover, Bob Wright and Gail Wright**.

The 2006 Social is scheduled for **Friday, May 5, 2006**. Updates and additional information will be included in future issues of THE NEWS.

YOUR SERVICES MAY BE SUBJECT TO SALES TAX!

The Pennsylvania Legislature is considering a proposal to impose sales tax on services provided by professionals (House Bill 120). This would affect engineering services as well as attorneys, accountants, architects and others. ASCE National has noted that this is a trend which seems to be growing in several states and it has placed this proposal on its "watch list" of top legislative priorities.

State Representative **Michael Veon** (14th District, Beaver County), the Democratic Whip of the Pennsylvania House, has alerted many of those who will be affected by this bill, and is rallying support to defeat it. You are encouraged to visit his website, www.pahouse.com/veon, for more information on this and for your feedback.

This may not affect you directly, but it could harm the state's private engineering industry, especially smaller business concerns. As such, it is a critical issue for our profession.

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VILLANOVA UNIVERSITY

2005 Pennsylvania Stormwater Management Symposium

Stormwater Management Implementation - Are We Getting It Right?

October 12-13, 2005

While still under development, the Symposium is shaping up. This year we have the honor of being addressed by Secretary McGinty of the Pennsylvania Department of Environmental Protection. First we have a pre-symposium workshop for Municipal Officials "Municipal Stormwater Management — Strategies for Success." Agenda topics will include municipal liability, MS4 NPDES Phase II Permits/TMDLs, stormwater authorities/utilities panel discussion and comprehensive financing strategies. Please note, this workshop is targeted for the non-engineering local government elected and appointed officials.

Day 1 will start off the symposium. PaDEP officials will provide an overview of the Pennsylvania Stormwater Best Management Practices Manual. Next we jump right into multiple sessions of papers presented by professionals on many stormwater topics. The formal portion of the first day concludes with three concurrent panels "New Directions in Act 167 SWM," "Think Ahead of the Machine During Any Earth Moving Activity With Scheduling and E&S Strategies," and "State, Local and Citizen Enforcement of Storm Water Laws." An informal reception ends the day.

Day 2 kicks off with a panel chaired by **Barry Newman** (PaDEP, Chief Stormwater Planning and Management) on Stormwater Authorities. Next Secretary McGinty addresses the symposium. After her presentation we are back to paper sessions, and a "Stormwater Town Meeting" on research needs. The symposium concludes with several optional tours.

Please note that details are still being confirmed. You can consult the web page (<http://www.villanova.edu/VUSP>) for registration and more information.

DO YOU HAVE BIG IDEAS?

If you do, the "New" Construction Technical Group is looking for a few good persons to join us in planning and conducting educational and networking events that can benefit you and other ASCE members. Your ideas on event types, educational topics and other means of promoting Civil Engineers' contributions to society are welcome. For more information, please contact **Dennis Mac Bride** at dmacbride@septa.org or (215) 580-3404. Thanks!

**Resolve to attend ALL
Section Meetings and
Functions This Year!**

MEMBERS IN THE NEWS

Mentoring has always been an important aspect of the Engineering profession. Earlier this year, **Catherine Chia-Calabria, P.E.**, head of McCormick Taylor's Structural Group in the firm's Philadelphia office, extended her commitment to education and mentoring into a local elementary school. In celebration of **American Education Week**, the Pennsbury Partnership Program (PPP), through Pennsbury School District in Bucks County, PA, joined with local business professionals for a program called **WISE — Workplace In Support of Education**. Linked up with teachers, the business professionals take an active role in the lessons and activities for the day.

Catherine visited Makefield Elementary School and worked with advanced math fourth graders. Partnered with teacher **Joyce Watson**, she related math and social studies to engineering and used McCormick Taylor's Citizen Lane, an interactive public involvement tool developed for PennDOT, as part of her lesson. The students played the game and discussed public policy towards transportation projects.

"I like to encourage young students, especially girls, to pursue the sciences," noted Catherine. "I want to show them how much fun it can be and how relevant science and engineering are to our everyday lives." Catherine also attends the elementary school's career fair annually to talk to the students about her career and what it's like to be an Engineer.

This article appeared in the Summer 2005 edition of *Crossroads*, McCormick Taylor's newsletter.

Pennoni Named "Cavaliere"

As reported in the July edition of ASCE News, the National newsletter, our own **C. R. "Chuck" Pennoni** has been accorded the prestigious title "cavaliere." This is a civic honor presented by the president of Italy to "extraordinary members of the Italian-American community who have dedicated themselves to encouraging knowledge and interest in Italian matters and affairs in connection with their educational, financial and commercial projects." **Stefano Mistretta**, Italy's consul general, made this presentation to Chuck on May 27, 2005.

The title "cavaliere" dates to the Roman Empire. The Romans bestowed this honor on citizens for outstanding military or civil service. In the present day, candidates are selected on the basis of their accomplishments and integrity as well as their commitment to the strengthening of ties between Italy and the United States.

In addition to his position as Chairman and Founder of Pennoni Associates, Inc., Chuck has served as ASCE, National President and ASCE, Philadelphia Section President, and is currently the President of the ASCE Foundation.

I may be schizophrenic
but at least I've got each other.

— Roger Miller

HISTORICAL PERSPECTIVE FOR THIS MONTH...

In keeping with the monthly "history lessons" (as some of you have called it) presented in THE NEWS over the past couple of years, we hope to provide some additional historical information and perspectives for your edification this season. The change in focus will be a concentration on aspects of life that are not necessarily related to the Section or ASCE but more on what affects our professional activities.

Along these lines, we offer this information provided to us by Section Member **Mike Gabor** of Urban Engineers. Mike's professional focus is on port facilities, thus his data covers the Port of Philadelphia and Camden as it existed almost 65 years ago, in 1941.

At that time, the Port encompassed the Delaware River from the City Limits (Poquessing Creek) on the north to Hog Island (the present location of International Airport) on the south. The Port is approximately 99 miles from the open sea.

There were 152 operating piers in this stretch of river, which is approximately 30 miles in length. The Port also covered the Schuylkill River from the Water Works to the Delaware River. This contained 40 piers in a distance of 8.5 miles.

Of the 192 piers on the two rivers, the City of Philadelphia owned 31 of them. Others were owned by a variety of concerns, including the Pennsylvania Railroad, Reading Company, and Baltimore and Ohio Railroad — three big names in railroading at the time, three companies that no longer exist, but three names that everyone who has ever played the game of Monopoly still know!

On the New Jersey side, there were 81 piers along the Delaware.

Ferries still regularly shuttled between the sides of the Delaware, at Market Street and South Street in Philadelphia (connecting to Federal Street and Kaighn Avenue, respectively, in Camden), and between Chester and Bridgeport, New Jersey. The first two were gone by 1952, while the Chester ferry continued operating until the opening of the Commodore Barry Bridge in 1975.

The Port's piers handled many materials in overseas and coastwise trade. Materials were often trans-loaded to barges for shipment via inland waterways and canals that existed in the area.

Shipbuilding and marine repairs were also significant activities on the rivers. In addition to the Naval Shipyard, several private concerns, including New York Shipbuilding, Sun Ship, and Cramp's Shipyard were prominent. New York Ship had the only covered shipways in the world at one time, and this allowed fabrication of vessels in inclement weather.

Most cargo vessels were less than 300 feet long with a 70-foot beam (width). Roughly 20,000 ships called at the Port annually.

Continued on Page 8

WORD/PHRASE ORIGIN CORNER

We at THE NEWS like to occasionally help you broaden your horizons and learn new things. In this regard, we often pass along information on the origin of words and phrases we find in the engineering world for your edification and enjoyment.

Most of us are familiar with "Murphy's Law," i.e. anything that can go wrong will go wrong. There are several schools of thought on where this originated. Here is the most widely accepted origin of this.

Air Force Captain Edward A. Murphy was an Engineer working on a military project which was testing the amount of sudden deceleration a person could stand in a crash. In the course of his investigations, he discovered that a transducer was wired incorrectly and could be the source of questionable results. His observation on the capabilities of the technician responsible for the wiring was, "If there is any way to do it wrong, he'll find it." The project manager for the effort apparently kept a list of such "laws" and added this one to it, which he called Murphy's Law.

Shortly after this, Dr. John Paul Stapp of the Air Force rode a sled on the deceleration track and gave a news conference. He noted that the project's great safety record was related to a firm belief in "Murphy's Law" and the necessity to try to circumvent it. When aerospace manufacturers picked it up and began to use it in their ads, Murphy's Law was born.

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OCTOBER DINNER MEETING

Continued from Page 1

enter. The Tunnel was estimated to cost about \$28 million to build at that time. Again, not much materialized.

Consideration begun anew in the late 1960's, prompted by the formation of the Southeastern Pennsylvania Transportation Authority (SEPTA) in 1963. SEPTA was created by the Commonwealth of Pennsylvania in part to subsidize the commuter rail operations of the still-private railroads (SEPTA would take direct control of commuter rail operation from Conrail in 1983). Design work started and ground was broken on June 22, 1978.

Construction proceeded at a rapid pace through the narrow, busy Center City streets along the Tunnel's path, with their own mazes of underground utility lines that had to be supported and relocated. The Tunnel crossed over the Broad Street Subway and under the Reading Terminal, which had to be underpinned. All of this had to happen while life went on as normally as possible with minimal disruption in the heart of busy downtown Philadelphia.

The 1.7-mile, \$330 million Tunnel opened for limited service between the renovated Suburban Station and the \$75 million Market East Station, the only new passenger stop on the route, on June 7, 1984. On the following November 6, the last train from Reading Terminal departed at 8 PM, after which the tracks from the Reading viaduct were connected to the Tunnel and full service commenced on November 10.

The Tunnel links the region's commuter rail network of 12 separate routes with over 500 combined rail miles which extend throughout the region to points as far as Trenton, New Jersey, Newark, Delaware, and eastern Chester County.

An ASCE Fellow and Life Member, **Bernard Goldentyer** holds BSCE and MSCE degrees from Drexel University and an MGA degree from the University of Pennsylvania. He has more than forty years of experience in transportation projects including airfield, highway, and rail transit and is a registered P.E. in four states. Bernie was the City's Project Manager through the planning, design and construction and retired from the City in 1985. For the past 20 years he has worked in the private sector, having retired from Hill International as Project Director this past spring. He and his wife Nancy, a school psychologist, reside in Northeast Philadelphia. They have 3 children and 4 grandchildren.

James D. Toth, P.E., holds a B.S. in Civil Engineering from Lehigh University and a masters in Civil Engineering from Villanova University. A project manager and vice president of STV Incorporated, Jim has 40 years of Engineering experience in the design of transportation projects. Jim was the Structural Project Engineer for STV's efforts in the design. Jim and his wife Dotty reside near Pottstown, PA.

Michael V. Griffin, P.E., was part of the City's construction management team for the

Tunnel. He is currently a Senior Vice President with Hill International, where he is responsible for Hill's project management consulting services offered from Hill's Philadelphia Office, covering the mid-Atlantic portion of the United States. Mike has extensive experience in the planning, design, and construction of major building, transportation, and heavy civil construction projects. He has been employed by Hill for 23 years, initially serving as a construction claims consultant and later as a construction claims Project Director. Subsequently, he managed one of Hill's largest program management assignments at the time, the \$543 million widening of the New Jersey Turnpike. He later managed Hill's efforts on the new Tren Urbano rail system in San Juan, Puerto Rico. In 1995 Mr. Griffin was appointed manager of Hill's project and construction management division operating from Hill's headquarters office in New Jersey. He later founded and managed Hill's New York project management office.

Joseph P. McAtee is Executive Vice President and a principal owner of Urban Engineers, a 360-person, ISO-certified Engineering firm with ten offices in the Mid-Atlantic region. In his 38-year career with Urban, he has served in a variety of positions on over \$1.5 billion worth of highway and other heavy construction projects, as well as experience as a Dispute Resolution Board member for the Washington State DOT. Joe was a key member of the Commuter Tunnel construction management team.

He has a B.S. in Civil Engineering from Drexel University, is a Professional Land Surveyor, and is a Registered Professional Engineer in eight states.


Joe is a member of the Construction Management Association of America (CMAA), where he is a Fellow. He currently serves as Chairman of the Quality Management Committee. He is a former member of the National Board of Directors, Past Chairman of the Board of Governors of the Construction Manager Certification Institute, and Past President of the Mid-Atlantic Chapter. In addition, he is a member of several other professional organizations and is currently Treasurer of the American Council of Engineering Companies of Pennsylvania.

PM⁴ - TOP TEN REASONS TO BE A PROJECT MANAGER

Section Director **Ann Tomalavage** has developed ten reasons why you should aspire to become a Project Manager. Here they are...

10. Continuously involved in problem resolution.
9. You can just push papers around on your desk all day and say you're working.
8. It looks good on your resume.
7. You get to see the overall picture of the entire project.
6. You get to be fully responsible with no control.
5. You're a people-pleaser.
4. You don't know how to say 'No.'
3. You want an ulcer at 35.
2. Constructive outlet for aggressive-compulsive behavior.
1. It's good to be king.

Thanks to Ann for sharing these with THE NEWS.



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TECHNICAL GROUPS/CHAIRS

Information on the Section's Technical Groups is given below. Vice President James Markham will coordinate activities of the Groups. If you have any topics that you think would be of interest to the Groups, please feel free to pass this information along to the Group Chair. As usual, an informative and interesting program is in the works and events will be reported in upcoming issues of THE NEWS.

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SECTION MEETINGS 2005-06

MARK YOUR CALENDARS AND HOLD THESE DATES!

The ASCE, Philadelphia Section Meeting program for the 2005-06 season is still being finalized. Several topics have been tentatively set but some remain to be finalized. Please place the following dates in your calendar. Section Meetings are scheduled for these times and locations. We have also included some information as we know it at presstime. Watch this space in future issues of THE NEWS and the Section website for more information.

All Dinner meetings feature a cocktail hour starting at 5:30 PM, dinner at 6:30, and the meeting presentation following at 7:30, unless otherwise noted. You are welcome to attend the presentation portion without paying for dinner if you prefer.

Wednesday, December 14	Joint meeting with Society of American Military Engineers, Philadelphia Post • Hilton Hotel, Airport
Wednesday, January 25	"The Pennsylvania Turnpike, I-95 Interchange" Joint meeting with American Society of Highway Engineers, Delaware Valley Section • Cocktails 6:00 PM, Dinner 7:00, Presentation 8:00 • Radisson Hotel, Valley Forge
Thursday, February 23	"The Cherokee Development" • Joint meeting with ASCE South Jersey Branch • Wyndham Hotel, Mount Laurel • Rowan University Night
Thursday, March 16	Joint meeting with American Concrete Institute, Delaware Valley Chapter • Union League
Thursday, April 20	Joint meeting with Mid-Atlantic Section, Institute of Transportation Engineers and Women's Transportation Seminar, Philadelphia Chapter • Union League
Friday, May 5	Annual Spring Social and Dinner Dance • Villanova Conference Center

HISTORICAL PERSPECTIVE

Continued from Page 6

Of course, things are vastly different today. Ships are larger (up to 1100 feet long with a 230-foot beam). Only about 3000 ships call annually, although they can handle ten times the cargo of a 1941-era vessel. The port interests are lobbying to deepen the Delaware's channel from 40 feet to 45 feet so even larger ships can be accommodated.

Thanks to Mike for this history lesson!

THANKS TO OUR SPONSORS

The ASCE, Philadelphia Section Sponsorship continues to be a success. A number of local firms have taken part in the program so far this season, and their business cards are included in this edition. The Section extends its collective "thank you" to our sponsors for their commitment and continued support of the Section.

For information on the program, please contact our Editor, Bob Wright at (215) 686-5538 or robert.wright@phila.gov.



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Homer, Alaska — A Small Drinking Village
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