

ASCE, PHILA. SECTION MEETING SCHEDULE 2010—11

The ASCE, Philadelphia Section Meeting program for the season is nearly finalized. The dates shown below are the ASCE, Philadelphia Section meetings remaining this season. We would suggest that you use this to mark your calendar at this time and hold the dates. In coming issues of *THE NEWS*, we will provide updates and more detail as this is put into place. We also suggest you visit the Section website for the latest changes in our meeting program.

Dinner meetings generally follow a schedule of a cocktail hour starting at 5:30 PM, dinner at 6:30 PM, and the meeting presentation following at approximately 7:30 PM, unless otherwise noted. As always, you are welcome to attend the meeting presentation without dinner at no cost if you prefer to do so.

The remaining dates in 2011, after February, are:

Thursday, March 10

Wednesday, April 13

Please note that the annual **Spring Social** is tentatively scheduled for **May 13**. More information on this and the location will be provided in future editions of *THE NEWS*.

THANKS TO OUR SPONSORS!

Our ASCE, Phila. Section Sponsorship Program continues to grow and we now have 18 firms participating in this program thus far this season. We appreciate the financial commitment and support these firms have demonstrated for the benefit of the Section, and we extend a heartfelt, special and collective THANKS to each sponsor accordingly.

Even though our season is more than one-third over at this point, it's not too late to become a sponsor. If you have an interest in joining our sponsorship program, please contact **Bob Wright** at newseditor@asce-philly.org for more details.



JANUARY JOINT DINNER MEETING

American Society of Civil Engineers, Philadelphia Section
American Society of Civil Engineers, Reading Branch
American Society of Highway Engineers, Delaware Valley Section

WEDNESDAY, JANUARY 19, 2011

Radisson Hotel, Valley Forge • 1st Avenue and Gulph Road, Valley Forge, PA
Cocktails 6:00 PM • Dinner 7:00 PM • Meeting 8:00 PM

SUBJECT: South Street Bridge Replacement Project

SPEAKERS: **John Lutz, P.E.**, Chief Bridge Engineer; **William E. Gural, P.E.**, Assistant Manager, Bridge Section; **David J. Perri, P.E.**, Chief, Surveys and Design; Philadelphia Department of Streets

COST: \$35 before January 15 (\$20 for government employees), \$45 January 16 and after and at the door.

RESERVATIONS MUST BE MADE THROUGH DELAWARE VALLEY SECTION, ASHE. The Philadelphia Section will NOT be accepting any reservations for this meeting. Payment for reservations must be received at ASHE by the January 15 deadline. Those who reserve past this date and walk-ins will be charged the higher rate.

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.

Checks for reservations should be sent to **Delaware Valley Section ASHE**, 1500 Walnut Street, Suite 1105, Philadelphia 19102. Checks should be made to "Delaware Valley Section ASHE."

After nearly two years of construction, the new South Street Bridge was opened to traffic in a public ceremony on November 6. The new 1,800-ft. long bridge and viaduct replaced a similar-size one dating to 1923, which was closed to traffic on December 8, 2008 to facilitate the replacement effort. The bridge was delivered to travelers and taxpayers ahead of schedule and on budget.

The bridge replaces a structure that was built as a bascule ("draw") bridge. The movable spans were fixed in place in the late 1950's as river traffic no longer required the clearances needed when the structure was originally completed. The bridge fell into disrepair in the mid-1990's despite the valiant efforts of the City's Department of Streets to maintain it in good working order, and weight limits had to be successively imposed which, by the mid-2000's, were down to 3 tons, requiring detours for trucks and SEPTA buses.

The bridge carries traffic over three busy rail lines (including Amtrak's Northeast Corridor and SEPTA's Regional Rail network), beneath another railroad and over the the Schuylkill River, I-76 and the Schuylkill River Trail in its reach from 27th Street in Southwest Center City to Convention

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Resolve to attend ALL Section Meetings This Year!

FEBRUARY JOINT DINNER MEETING

American Society of Civil Engineers, Philadelphia Section
American Society of Civil Engineers, New Jersey Section, South Jersey Branch

THURSDAY, FEBRUARY 10, 2011

Crowne Plaza Hotel Philadelphia-Cherry Hill

2349 W. Marlton Pike (at Cuthbert Blvd.), Cherry Hill, NJ

Cocktails 5:30 PM • Dinner 6:30 PM • Meeting Presentation Follows

Additional information will be provided in the February edition of *THE NEWS*.



PRESIDENT'S MESSAGE

I hope you all have an enjoyable holiday season full of good cheer, great memories and I wish you a Happy New Year!

As we start 2011, I wanted to take a moment to review the goals the ASCE Phila. Section Board established for the 2010-11 Season and provide an update on things to look forward to in the next few months.

- **Social Events Outside our Monthly Dinner Meetings:** a Philadelphia Union game and a Happy Hour in Conshohocken occurred. Another Happy Hour will occur in the City in the spring. Also, the **Younger Member Forum (YMF)** will be holding its **15th Annual Winter Social** on **January 24**. I invite you to come join us at this great and fun event.
- **Provide PDH meetings:** All of our dinner meetings in 2010 offered a PDH opportunity and our January through April dinner meetings will offer 1 PDH for attending the program. Additionally, our technical groups and institutes have had and continue to plan lunchtime and evening programs offering PDH opportunities. These programs are being organized to assist you in meeting your PDH requirements which you need by October to renew your professional license in Pennsylvania.
- **Revitalize the Reading Branch:** In October, we had a joint dinner meeting with the Reading Branch, who celebrated its 35th Anniversary. We also inducted a new Board that is busy planning activities for this spring.
- **Plan for the 100th Anniversary:** In 2012, we will celebrate 100 years as a Section. **Jenn Walsh** is chairing this committee. We are starting to plan the program and research venues. If you would like to join this committee or have ideas for events, please email me at tbrady@louisberger.com.
- **Hold Multidisciplined Meetings:** Our fall meetings dealt with subjects that encompassed several Civil Engineering fields. Our April 13 dinner meeting will again offer breakout sessions on topics covering Geotechnical Engineering, Structural Engineering, Environmental/Water Resources, and Construction/Transportation.
- **Outreach regarding the PA Infrastructure Report Card:** Since the release of the Report Card in May, the ASCE sections throughout Pennsylvania have kept the legislators focused on infrastructure investment through Letters to the Editor and op-ed articles and are reaching out to Governor-Elect Corbett's transition team.

I wish you Best Wishes for a Blessed and Happy 2011! Go EAGLES!

Sincerely,
Thomas W. Brady, P.E.
President, ASCE, Philadelphia Section

ASCE NATIONAL NEWS GOING DIGITAL

We won't say they took the cue from us,* but please note that, beginning in January, the **National ASCE News** will be published in a digital format only. This is part of our Society's commitment to sustainability and fiscal responsibility. By discontinuing the newspaper's print edition, ASCE also reduces printing and mailing costs, and continues to advance its electronic publishing efforts.

You can visit <http://asce-news.asce.org/> to view the current editions of **ASCE News** in the format in which the digital editions will appear.

**You may recall our Section's newsletter, THE NEWS, went to a digital-default format a year ago.*



HAPPY HOLIDAYS! and GOOD NEW YEAR!! from the Section

The ASCE, Philadelphia Section's Officers and Board wish you the best of the season, and, despite their better intentions, your Editor has summed it up in this limerick of sorts:

To 2010 we bid 'adieu'
We celebrate the holiday season too
The Section's Officers and Board
With their champagne glasses poured
Wish good tidings and happy 2011 to you

In the spirit of the yuletide season
If you've been good, that's a valid reason
To look forward to a gift that's cool
Like a snazzy new slide rule
Or something that's similarly pleasin'

We send you this lame greeting
It's the thought that counts, we keep repeating
And we'll put an hour of PD*
In your stocking or under your tree
If you come to a Section meeting

Your Editor says he's an engineer
Maybe he's had too much holiday "cheer"?
For his sake we hope his calculations
Are better than these salutations
Anyhow, merry holidays and happy new year!

**professional development*

ASCE, PHILADELPHIA SECTION OFFICERS AND BOARD OF DIRECTION – 2010-11 SEASON

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COPY DEADLINE FOR

FEBRUARY '11 ISSUE

JANUARY 20, 2011

DECEMBER DINNER MEETING

December 1, 2010

Down Town Club, Center City Philadelphia

The Panama Canal Expansion Program

by Robert Wright, Editor

Our third meeting of the current season and the last for 2010 had at least one thing in common with our October and November meetings — another rainy day. The added chill in the air, along with it being dark outside as attendees arrived at the Down Town Club, served as a reminder that the calendar had only just turned to December. This month's event has come to be billed as the "Multi-Society Event", having grown to the point that nine (!) different technical societies share the sponsorship billing. The Society of American Military Engineers (SAME), Philadelphia Post has assumed the unenviable task of lead society and meeting coordinator.

Sharing the "marquee" with SAME and our Section were the Association for the Advancement of Cost Engineering (AACE), Delaware Valley Chapter; the Construction Management Association of America (CMAA), Mid-Atlantic Chapter; the Engineers' Club of Philadelphia (ECP); the Institute of Industrial Engineers (IIE); the Pennsylvania Society of Professional Engineers (PSPE), Philadelphia Chapter; the Project Management Institute (PMI), Delaware Valley Chapter, and; the Society of Naval Architects and Marine Engineers (SNAME). This veritable alphabet soup of groups combined to produce the usual great meeting that has become almost expected of this event.

Post Director (and Section Member) **Thom May**, the "emcee" for the event, welcomed the room-filling crowd and introduced **Sgt. Simpson** of the United States Marine Corps, who thanked those present for their generous donations to the Toys for Tots collection conducted prior to the meeting. Past Section President **Ruben David** followed Sgt. Simpson at the podium and led the blessing/grace.

Following dinner, Post Director May acknowledged the meeting's sponsors, Urban Engineers and Kleinfelder. He then introduced the evening's speaker, **David Nisula**, Assistant Program Manager of the Panama Canal Expansion Program for CH2M Hill.

Mr. Nisula presented a short background on the program. The owner, the Panama Canal Authority (ACP in Spanish), has embarked on an ambitious expansion and modernization of the nearly-100-year-old Canal which is valued at \$5.25 billion.

ACP is a semi-autonomous government agency in place to manage the Canal since its turnover to Panama from what was the United States Canal Zone.

WHY EXPAND THE CANAL?

Mr. Nisula presented some facts and figures on the Canal. Its annual "traffic" is approximately 13,000-14,000 movements and it handled its one millionth "customer" in September. Nearly 75% of seagoing cargo uses the Canal. This level of

traffic continues to grow and the Canal will reach its capacity in the next three years. Additionally, when it was built over 100 years ago, ship dimensions were smaller and the current standards for larger vessels are more generous. Large ships can often be accommodated difficultly if at all and they must move through the Canal slowly, affecting other traffic. Often, there is a 7-10 day wait for ships to transit the Canal, with backups at either end. The expansion project to target and resolve the operational and dimensional limitations was passed in a national referendum in October 2006.

Much of the funding needed for the work will come from user fees. Mr. Nisula explained that \$2.3 billion will need to be borrowed and five different banks in the international finance market have been utilized for this purpose. Contrary to at least some popular belief, the project is not being backed by Chinese interests.

COMPONENTS OF THE EXPANSION PROJECT

Mr. Nisula outlined the various component parts of the Canal upgrade:

- Pacific Access Channel – a multi-phase effort:
- Phase 1 was awarded in July 2007 with a value of \$40 million and has been completed. Phase 2 was awarded in November 2007, worth \$25 million, and is complete. Each of these Phases included over 7 million cubic meters of excavation.
- Phase 3 is underway, at a cost of \$35 million, with 8 million cubic meters of excavation.
- Phase 4 was recently started, with a value of \$268 million, with 26 million cubic meters of dry excavation.
- Pacific Entrance deepening/widening is underway, worth \$100 million, with 5 million cubic meters of dredging.
- Dredging Gatun Lake and approach channels is one-third complete, with a cost of \$60 million and nearly 8 million cubic meters of dredging.
- Atlantic Entrance deepening/widening is underway, at a cost of \$106 million with 10.4 million cubic meters of dredging.

Mr. Nisula reported in detail on the Lock Reconstruction, a design/build effort. This is about 5% complete on the construction side. The result of this effort will be new locks that are 400 feet longer, 18 feet deeper and 70 feet wider than the existing locks, with a more efficient method of filling/emptying to be provided. The new method has been used in several locations in Europe but not yet to the scale that will be required on the Canal. It uses 7% less water and depends more on gravity feed than the pumps previously utilized.

The Locks adjacent to each ocean entrance will also be expanded. Mr. Nisula noted that in the 1930's and 1940's some work had been undertaken to do this but it was never completed.

The remnants of that uncompleted work will be utilized for parts of the current program.

Contracts have recently been awarded for dredging of the north access lanes to the Pacific Access Channel, revisions in the Gatun Lake area to increase operating levels and control water elevations, associated environmental/social monitoring/control, and general reforestation of sites throughout Panama as mitigation efforts for the Canal expansion. Mr. Nisula compared the proposed work to the original Canal. When it opened in 1914, the Canal had required over 200 million cubic meters of excavation and 3.4 million cubic meters of concrete. The expansion program will add 75 million cubic meters of excavation and 4 million cubic meters of concrete.

Mr. Nisula described associated improvements occurring at US ports through local port authorities, including Philadelphia's. ACP has forged relationships and covenants with many of these agencies, which are anticipating the increased shipping efforts that will come with the new, improved Canal.

ACP hired CH2M Hill for overall program management of the Canal effort, and Mr. Nisula outlined the firm's use of project management integrated system (PMIS) techniques and programs to monitor the complicated schedule, costs, expenditures, the myriad of construction contracts and contractors, and general reporting.

Q & A

Questions from the audience were ably handled by Mr. Nisula. The responses included information on the project design (mainly handled by ACP with some input from the US Army Corps of Engineers), the design/build situation on the locks, the formation of international joint ventures among contractors to handle the contracts, and the major cultural challenges of an American company doing business in a foreign country. Thus far, all contracts have come in under budget, taking advantage of depressed economic conditions, and meeting the schedule for the most part. Panama has different standards for safety. The new locks will use tugboats instead of locomotives to guide ships through.

On behalf of all the societies represented at the meeting, Post Director May presented Mr. Nisula with the Post's token of appreciation for a job well done.

OOPS!

We at *THE NEWS* have been on a good run lately as far as not making boo-boos, but we ended our streak last month. You may not have noticed it (and your Editor certainly didn't, until it was too late), but, despite the December date on the front of that issue, the page headers all had "November" clearly printed on them.

Your Editor, who should know better, being surrounded in the denizens of *THE NEWS* (also known as his office) by calendars, vows to pay particular attention to what day and month it is in the future so this doesn't happen again. Sorry for any confusion this may have caused.

A HOLIDAY MESSAGE FROM NATIONAL *

Dear Members and Friends,

Holiday lights are starting to twinkle in the shops and in our neighborhoods. With so many demands on our time during this season, it's important to stop and be appreciative of those who enhance our lives and make our jobs easier. We want to express our sincere thanks to all of you for your support and enthusiasm. The dedication and engagement of our volunteers allows our Society to advance the profession and to make a difference in our world.

This year, as we struggled to adjust to a new economic reality, focusing on priorities became essential. At ASCE, we have made strides in representing the profession and in moving civil engineering into the future. Dedicated to taking a leadership role in bringing the outcomes outlined in The Vision for Civil Engineering in 2025 into reality, we concentrated on three strategic initiatives: infrastructure, sustainability and competency.

As we reflect upon the past year, it's clear that our infrastructure is the foundation of the economic strength and quality of life we enjoy in the United States. Public awareness and regard for civil engineers as the stewards of infrastructure grew in 2010. Lawmakers are hearing us and quoting us. News organizations are seeking our insights. The ideas and approaches we are proposing are gaining traction. And our continued efforts to bring all parties into the discussion, as in the roundtable discussions held recently in Washington, D.C., and around the country, are helping to define workable solutions.

We are also making inroads in advancing the role of civil engineers as stewards of a sustainable environment. While we have always taken the natural environment into account, "sustainable design" has taken on a much broader meaning. At ASCE, we're working to redefine sustainable infrastructure design with a focus on incorporating a "triple bottom line" approach that encompasses environmental, social, and economic sustainability. We joined with APWA and ACEC in the development of a new infrastructure sustainability rating system, which is slated for full release in 2011. A pilot was rolled out in October at the annual conference. We will be offering sustainable certification educational programs that will establish an overall context for improved design of infrastructure and will help us assume the leadership role we envision.

With the rapid advances in technology, our world is changing at an astounding pace. We need to prepare the engineers of the future to deal with this complexity. This year marked the 12th anniversary of the Board of Direction's approval of Policy Statement 465, Academic Prerequisites for Licensure and Professional Practice. Our focus on raising the formal educational requirements for licensure is making progress, we are offering more opportunities for post-licensure certification, and our continuing education choices are being enhanced.

ASCE is leading the charge in all of these areas and helping to transform the profession; we appreciate the support and dedication of our members, organizational entities and staff.

We welcome the opportunities and challenges that 2011 will bring as we advance our strategic initiatives and reach toward our vision. Whether you celebrate here or abroad, the leadership and staff of ASCE wish you and your family a peaceful holiday filled with joy.

Sincerely,

Kathy J. Caldwell, P.E., M.ASCE
2011 ASCE President

Patrick J. Natale, P.E., CAE, F.ASCE
ASCE Executive Director

**Unlike the message from the Section, this one doesn't rhyme*

ANACE*

BACK TO THE PAST — LONDON DOUBLE-DECKERS RETURN

Recently, the Mayor and Transport Commissioner of London unveiled a full-size mock-up of the new London double-deck bus. With the outside of the bus painted the famous red of London Buses and the interior decor taking inspiration from the standard "Routemaster" type that ruled the city's streets for over 30 years, the full size static mock-up has brought the designs to life and demonstrated how the bus will look.

The life-size 3-D translation brings the futuristic, cutting-edge design to life and highlights its exciting features including the two staircases and windows following the smooth sweeping lines of the bus. The mock-up will be used to fine-tune the design of the bus to make sure that the model that hits the streets is perfectly

suited to the needs of Londoners. The Mayor, Boris Johnson, noted, "Standing on the rear platform of this delectable bus brings back a sense of nostalgia but conversely also demonstrates the quintessence of the latest technology and design, making this bus fit for 21st century London."

The New Bus for London is one of two key manifesto commitments on buses that were made by the Mayor ahead of the 2008 mayoral election. The unveiling of the mock-up is another significant step towards the delivery of a new bus for London. The return to double-deckers will spell the end of what replaced many of the two-story models, articulated (or as they are known in London, "bendy") buses, which did not satisfactorily work in the narrow confines of much of the city and were easily exploited by fare evaders. The bendy buses will be gone from the city's streets by 2011.

The bus will be produced in Northern Ireland by

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ENVIRONMENTAL AND WATER RESOURCES TECHNICAL GROUP

January Dinner Meeting

THURSDAY, JANUARY 27, 2011

SUBJECT: Retrofitting Stormwater Basins

SPEAKER: Crystal Gilchrist, AICP, Executive Director of the Perkiomen Watershed Conservancy

Conservancy

TIME: 6:00 PM (5:30 PM Registration/Networking)

LOCATION: Michael's Restaurant and

Delicatessen, 130 Town Center Road, King of Prussia, PA

COST: \$25

Ms. Gilchrist will share the Conservancy's experiences with the numerous stormwater basin retrofit projects it has completed in the Perkiomen Creek watershed. The initial project included a PADEP Growing Greener grant to retrofit six basins in Lower Providence Township. Subsequently, the Conservancy has used **TreeVitalize** funds to work with a Homeowners Association in Perkiomen Township and has obtained another **Growing Greener** grant to retrofit additional basins in Upper Hanover Township. Ms. Gilchrist will provide a description of the planning process from the Conservancy's point of view and discuss how these types of projects can help communities improve water quality, reduce the quantity of stormwater discharges and meet their Municipal Separate Storm Sewer System (MS4) permit requirements.

DIRECTIONS: Directions to the restaurant can be found at www.michaelsdeli.com/directions.asp

Attendees are eligible for one (1) Professional Development Hour (PDH) for attending this presentation. Please contact **Jerry Snyder** at **(610) 631-5241** for more information.

JANUARY DINNER MEETING

Continued from Page 1

Avenue in University City. It serves considerable vehicular traffic at its interchange with I-76 and is a popular pedestrian and bicycle connection between the college campuses at its west limit and residential areas on its east end.

In early 2006, local elected officials, community leaders, business owners and civic groups joined together to form the South Street Bridge Coalition. The Coalition pushed for improvements to the design of the bridge. The collaboration between the Coalition and the City's Department of Streets, which owns and maintains the structure, resulted in a more balanced pedestrian-, bicycle- and vehicle-friendly design that serves the needs of all bridge users. New features include wider sidewalks, a mid-block signalized pedestrian/bicycle crossing at the Schuylkill River trail, wider green-colored bicycle lanes, a reduction in vehicle lanes, relocation of street lights, and traffic signal adjustments optimized for pedestrian movements and safety.

For directions to the Radisson, please visit www.radissondestinationguide.com/locationMap.process/OID_EB39EA2D/?hotelCode=PAVALLEY.

STRUCTURAL ENGINEERING INSTITUTE**Dinner and Technical Meeting****TUESDAY, DECEMBER 21****SUBJECT: Modern Repair and Rehabilitation Techniques for Steel and Concrete Bridges****SPEAKER: M. Ali Khan, Ph.D., PE**

TIME: 6:00 PM Registration, 6:15 PM Dinner (sandwich wrap: turkey/tuna/vegetarian, please advise of selection when registering), 7:00 PM–8:30 PM Program

LOCATION: Municipal Services Building, 16th Floor, Conference Room Z, 15th Street and Kennedy Boulevard, Center City (Parking is available at several garages in the area at a low evening rate)

COST: \$50 ASCE members; \$55 non-members; \$15 students

Attendees are eligible to earn two (2) Professional Development Hours (PDH).

The initial cost of any highway bridge is enormous, but on the day the bridge is finished the maintenance costs are just beginning! Dr. Khan will present methods of reducing these important life-cycle costs by effective rehabilitation and repair strategies to extend the lifespan of these taxpayer investments.

Dr. Khan has had a long career in the rehabilitation and repair of bridges. After completing his studies at Imperial College in London, he worked on the standardization of steel bridges for the Ministry of Transport in addition to routine operation duties and maintenance of bridges. He was the design engineer for world's longest elevated viaduct, the Jeddah-Mecca Expressway. He specializes in curved girder bridges, and designed projects such as Ramp TN for the NJ Turnpike Widening project and the Inter-County Connector in Maryland. He teaches Bridge Engineering subjects at Temple University. His latest book, *"Rehabilitation and Repair of Bridges and Highway Structures,"* was published in 2010 by McGraw-Hill.

To register, please contact **Ali Khan** at **mohidin@temple.edu** or **(609) 332-1136** by 12/20. Mail your check payable to SEI-Phila Chapter to SEI Treasurer Vijay Gupta, PhD, PE, c/o A.D. Marble & Co. 375 E. Elm St, Suite 200, Conshohocken, PA 19428.

A typical vice of American politics is the avoidance of saying anything real on real issues.

— Theodore Roosevelt

**WHERE'S TOM?**

ASCE, Phila. Section President **Tom Brady** has raised a challenge to our members. Each month, we will show a photo of Tom at a different location. You will be asked to keep track of the locations where Tom appears in the photos. The first photo was provided in the Summer edition. In April, you can send a list of your guesses to Tom and the participants will be entered into a drawing for a prize to be awarded at the Spring Social.

Good luck!

SECTION SCHOLARSHIP PROGRAM STILL OPEN

The ASCE, Phila. Section's Scholarship Program is open for applications for the 2010-11 season. It will follow the same format as it did last season, when it changed slightly from previous years as far as schedule of submissions and awards.

The Section offers three distinct undergraduate scholarships annually:

- ASCE Delaware Valley Engineers Week Scholarship
- ASCE Student Scholarship
- ASCE Section Member Scholarship

Scholarship winners will be recognized as the Section's guests at our March 2011 dinner meeting.

ENGINEERS WEEK SCHOLARSHIP

The application deadline has passed for this year.

STUDENT SCHOLARSHIP

At least one \$1,000 scholarship will be awarded by the Section to an undergraduate Civil Engineering student who meets the following requirements.

- The applicant must be matriculating in a full-time Civil Engineering or Architectural Engineering program at one of the five colleges which have Student Chapters in the Philadelphia Section: Drexel University, Swarthmore College, Temple University, Villanova University, or Widener University.
- The applicant must be an active participant in the ASCE Student Chapter.
- The applicant must be in their sophomore or junior year (and Pre-Juniors at Drexel).

APPLICATION REQUIREMENTS:

- The applicant's name, GPA and/or class rank, and an address/telephone number where they can be reached must be included with the scholarship application. Additional information for consideration (such as need) is allowed. A letter and/or resume is an acceptable means to provide this information.
- A recommendation letter from the applicant's faculty advisor is not required but is strongly suggested.
- The applicant will be required to submit an essay, limited to 1,000 words, on ONE of the following topics:

(1) With the heightened need for additional infrastructure funding and the increased political and public awareness of this need, how would you suggest that Civil Engineers capitalize on this and use their knowledge to increase political and public support of additional funding without sounding self-serving?

(2) How do you explain what Civil Engineering is to Non-Engineers? How can some of those ideas be expanded to enhance the public knowledge of the Civil Engineering profession so that people understand what we do and students are attracted to the field?

SUBMITTAL DEADLINE:

- Applications (including recommendations) must be submitted by **January 31, 2011.**
- Scholarship winners will be notified by **February 28, 2011.**
- Applications and recommendations should be submitted by mail or email to:

Mr. Jeff Bade, Scholarship Committee Chair
American Society of Civil Engineers
215 South 16th St., Ste. 16
Philadelphia, PA 19102
jbade@hardesty-hanover.com
(609) 538-8233

SECTION MEMBER SCHOLARSHIP

At least one \$1,000 scholarship will be awarded by the Section an undergraduate Civil Engineering student who is the child of an active ASCE, Philadelphia Section member and meets the following requirements.

ELIGIBILITY REQUIREMENTS:

- The applicant must be the child of an active ASCE, Philadelphia Section member.
- The applicant must be matriculating in a full-time Civil Engineering or Architectural Engineering program at an accredited college or university.
- The applicant must be an active participant in the ASCE Student Chapter at his/her school.
- The applicant must be in their sophomore or junior year (and Pre-Juniors at Drexel).

Application requirements and submittal deadline are the same as for the Student Scholarship above.

We encourage all eligible students to apply.
Good luck!

YOUNGER MEMBER FORUM NEWS

Scott Ceipitz, Forum Editor

Michael Wagner, Forum President 2010–11
Urban Engineers Inc.

530 Walnut Street, 14th Floor
Philadelphia, PA 19106
(215) 922-8080

mgwagner@urbanengineers.com

The YMF is asking for Engineers in the Philadelphia region to be judges for competitions for the **ASCE Mid-Atlantic Student Conference**. The Drexel University ASCE Student Chapter is hosting the conference in Philadelphia on **April 15-17, 2011**. This will be a fun way to use your expertise to help the future of Civil Engineering. There will be the Steel Bridge, Concrete Canoe, and technical paper and research poster competitions. We are asking for volunteers to help judge these competitions. If you are interested or have any questions, please contact **Marie LaPosta** at **mbl33@drexel.edu**.

The YMF Winter Social will take place on **January 24, 2011** at **McGill's Old Ale House** in Center City.

PHILADELPHIA SECTION 2011 AWARDS — NOMINATIONS BEING ACCEPTED

Hard to believe it's that time again, but the ASCE, Phila. Section's Awards Program for 2011 is now open for nominations. These Awards recognize Section members and others for their contributions to the Civil Engineering profession. All Awards will be presented at the **Spring Social/Dinner Dance**, tentatively scheduled for **May 13, 2011**. (More information on the Spring Social will be included in upcoming issues of *THE NEWS*.)

We encourage you to submit nominations for those deserving individuals who should be recognized for their various contributions, achievements and career milestones appropriately.

GUIDELINES/RULES

- Nominations must be received by the close of business (5:00 PM) on Monday, **January 31**. Nominations should be submitted on nomination forms which are available from the Committee Chair.
- Individuals may be nominated for awards by a member in any grade of membership.
- Individuals may receive only one award in a single year, but may be nominated for more than one award in a single year.
- Award recipients are subject to the approval of the Section's Board of Directors.
- All awards are presented only in years in which, in the judgement of the Selection Committee or the Board, there is at least one suitable candidate.
- The Selection Committee, at its discretion, may nominate an alternate for each Award for Board consideration.
- The Selection Committee will recommend to the Board whether the recipient should also be nominated for applicable National or Regional awards by the Section.
- A nominee for any award **MUST** be a member in good standing of the Philadelphia Section in the year in which the nomination is made, with two exceptions (Government Service Award and Philadelphia History and Heritage Award). For these awards, membership in the Philadelphia Section is **NOT** required.

AWARDS

The ASCE, Phila. Section has a total of 13 awards which cover various specialty areas. In addition, the Section President can nominate an individual for the Presidential Award at his/her discretion. The awards are as follows:

- Philadelphia Civil Engineer of the Year
- Philadelphia Young Civil Engineer of the Year
- Philadelphia Government Engineer of the Year
- Philadelphia Young Government Engineer of the Year
- Government Service Award
- Educator of the Year
- Philadelphia History and Heritage Award

Individual Technical Awards:

- Civil Engineering Manager of the Year
- Construction Engineer of the Year
- Geotechnical Engineer of the Year
- Structural Engineer of the Year
- Transportation Engineer of the Year
- Water Resources Engineer of the Year

If you are interested in submitting a nomination for consideration, please contact **Bob Wright**, Committee Chair, at (215) 922-8081, x1647 (or via e-mail at newseditor@asce-philly.org) to obtain a nomination form. You may also call Bob if you have any questions or need any additional information on the Section Awards Program.

WHAT THE CIVIL ENGINEERING PROFESSION DID IN 2010 — AND A PEEK AHEAD

Jennifer Hicks of ASCE National wanted to remind us what we did this past year, as we look back, just in case we forgot the many important things that happened.

It's been a tough year in the industry. Discussions on the funding of the Highway Trust Fund are stalled, and the economy is still in the doldrums.

On the sunnier side, the third quarter saw a 38% increase in the outlay of federal-stimulus funds — for a total of \$119.3 billion allocated to public projects since the ARRA was enacted; the Hoover Dam Bypass project was completed; CNN Money predicted job growth in the industry at 24% over the next decade; and the Thomas Viaduct Railroad Bridge in Maryland was named an ASCE National Historic Civil Engineering Landmark.

Although the recession has been tough on some Engineers, others have been exploring more public-private partnerships, taking on smaller jobs, and upgrading their professional certifications.

In addition to watching how a divided Congress will decide to fund the Highway Fund Trust next year, I think we'll begin to see more news about the use of building information modeling, uses of nanotechnology in the industry and more emphasis on sustainable — and smart — buildings.

ANACE*

Continued from Page 4

Wrightbus, which has been working with designer Heatherwick Studio to develop the new bus for Transport for London. The mock-up will now be used to show key stakeholders and seek their views giving them a chance to look around the bus, get on board and test out some of the key features including the open rear platform, a feature on London buses dating back to horse-drawn omnibuses in the 1880's. A prototype will be delivered late next year with the first five buses due to enter passenger service in early 2012.

*ANACE — Almost Nothing About or Concerning Engineering

ADVANCE PLANNING FOR ENGINEERS WEEK

The Delaware Valley Engineers Week Committee will be offering slightly different events for Engineers Week 2011 compared to those in previous years. Please note this information in your calendar and plan to participate. Prices and other details will be provided and updated as these are finalized.

AWARDS AND PROCLAMATION LUNCHEON FRIDAY, FEBRUARY 18, 2011

Doubletree Hotel, Center City Philadelphia

The Awards and Proclamation Luncheon will include:

- A poster session with presentation of student paper winners from 10:00 am to 12 noon prior to the Luncheon
- The Awards and Scholarships presented at the Banquet in previous years will now be featured at the Luncheon
- Engineers Week proclamations will be displayed
- Project and individual awards of all participating Engineering societies in the Delaware Valley will be recognized
- The Engineer of the Year and Young Engineer of the Year will make brief remarks

YOUNG ENGINEER SOCIAL EVENT TUESDAY, FEBRUARY 22, 2011

Field House Sports Bar, 1150 Filbert St., Center City

This event will be a happy-hour/networking setup geared to younger Engineers. The Young Engineer of the Year will make brief remarks.

CELEBRATION OF ENGINEERING RECEPTION THURSDAY, FEBRUARY 24, 2011

Pyramid Club, 1735 Market St., 52nd Floor, Center City

The culminating event of Engineers Week will be a social/networking gala event to celebrate Engineering, with cocktails, appetizer stations, and dessert stations. Other features of the event include:

- Award recipients will be honored with posters/exhibits/running PowerPoint in the networking area
- Future City Competition Regional winners will display their first place model
- The Engineer of the Year and Young Engineer of the year will provide brief remarks, followed by a brief recognition of the Hall of Fame, Outstanding Service, and Engineering Achievement award recipients

More information will be provided on price, location, and other details in the coming months. Please visit www.dvewc.org for up-to-date announcements.

Additionally, while not officially an Engineers Week event, the **Philadelphia Future City Competition** will be conducted on **Saturday, January 22, 2011** at the **Sheet Metal Workers Hall in South Philadelphia**. This will be the 16th successful year of the competition in our area. Mentoring opportunities are available now and many volunteers will be needed the day of the competition.

As always, volunteers are needed! If you are interested in volunteering for one of the many activities of Engineers Week, please visit www.dvewc.org.

TECHNICAL GROUPS/CHAIRS

Information on the ASCE, Philadelphia Section's Technical Groups is given below. Director **Keith Yamatani** will be coordinating the 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 appropriate Group Chair.

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ENGINEERING MANAGEMENT

The Chair position is currently open (see below).

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You won't see many Want Ads in *THE NEWS*, but here's one. The ASCE, Phila. Section is still looking for an energetic, enthusiastic and driven individual to take on the **Chair of the Engineering Management Technical Group**. Our current Chair, **Bill Mulloy**, has stepped down after several successful years at the "helm" of the Group.

The basic duties of the Chair are the direction of the Group, the planning of a program of events for the season (meetings, tours, etc.), coordination with the Section Board and other Technical Groups, and related duties.

Anyone who may have an interest or has questions about the position should contact President **Tom Brady** (contact information is given on page 2).

MEMBERS IN THE NEWS

MENNA ELECTED TO FELLOW GRADE

Region 2 Governor and Past Section President **Chris Menna** was recently approved for elevation to the renowned Fellow grade of ASCE membership. Congratulations, Chris!

BRANIGAN RETIRES FROM RETIREMENT

Past Section President **Tom Branigan** will become the new Executive Director for the Delaware River City Corporation (DRCC) in January. Tom will return to the world of trail and bicycle infrastructure planning, design and construction, having handled similar duties, among others, during his tenure as Manager of the Transportation Engineering and Planning Section of the City's Department of Streets. He retired from City service in March 2007. He will direct DRCC's efforts and focus on the Northeast Philadelphia Delaware Riverfront.

Good luck, Tom!

PSPE CHAPTER ENGINEERS WEEK EVENTS

PSPE DELCO ENGINEERS WEEK DINNER

The Pennsylvania Society of Professional Engineers (PSPE), Delaware County Chapter, has scheduled its **2011 Engineers Week Dinner for Thursday, February 17, 2011** at the **Media Towne House**, 117 Veterans Square, Media. In addition to the recognition of Engineers Week, the Chapter will be honoring its Delaware County Engineer of the Year, Young Engineer of the Year and Lifetime Achievement Award.

Please mark your calendar and hold the date. More details will be provided in the February edition of *THE NEWS*.

PSPE PHILADELPHIA ENGINEERS WEEK BANQUET

The Pennsylvania Society of Professional Engineers (PSPE), Philadelphia Chapter, will conduct its **2011 National Engineers Week Banquet on Saturday, February 26, 2011** at the **Springfield Country Club** (400 West Sprout Road, Springfield). This event will recognize, promote and celebrate the role that Engineers fill in the Greater Philadelphia Region.

The price per person is \$60.00 for reservations received before December 31, 2010, \$65.00 for reservations received afterward. Reservations can be made on the Chapter's website, www.pspe- Philly.org, using PayPal. Sponsorships and table-top exhibits are also available.



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