

ASCE VISION

Civil Engineers are global leaders building a better quality of life.

ASCE MISSION

Provide essential value to our members and partners, advance Civil Engineering, and serve the public good.

SECTION MEETING SCHEDULE 2018-19

We are about to be three meetings "in" for the current season and are rounding the halfway point. Our meeting program committee has been busy finalizing speakers and topics for what has thus far been an interesting and informative series of meetings. Information known at this time for meetings in 2019 have been provided below for your planning purposes. We would suggest that you mark your calendar at this time and hold these dates. Upcoming editions of *THE NEWS* will provide more details as they become available, and our usual information on the two immediate meetings each issue will be provided.

As always, you are welcome to attend the meeting presentation without dinner at no cost if you prefer to do so.

Information on meetings after January, as of this printing, are:

2019

February 21 – Lunch meeting; Location and topic to be finalized

March 14 – Maggiano's Little Italy, Center City; Topic to be determined

April 18 – Multi-topic meeting/breakout sessions; Location and topic to be finalized

May – Spring Social; Date and location to be finalized

**Thanksgiving is an emotional holiday.
People travel thousands of miles to
be with people they only see once a
year. And then discover once a year
is way too often.**

– Johnny Carson

DECEMBER MULTI-SOCIETY LUNCHEON MEETING

Engineers' Club of Philadelphia and numerous Technical Societies

TUESDAY, DECEMBER 4, 2018

DoubleTree Philadelphia Hotel, 237 S. Broad Street (at Locust Street), Center City
11:30 AM Networking, 12:00 Noon Lunch, Presentation following

SUBJECT: "TomorrowLand" Is Here Today; Smart Cities, Big Data and Decision Science

PANELISTS: **Drury B. Crawley, PhD**, Bentley Fellow/Director, Building Performance/Bentley Institute, Bentley Systems, Inc.

Ellen Hwang, Assistant Director of Strategic Initiatives, Office of Innovation & Technology, City of Philadelphia

William T. Thomsen, PE, Senior Vice President/COO, National Services, Urban Engineers, Inc.

Steven Weber, PhD, Department Head, Electrical and Computer Engineering, Director, Isaac L. Auerbach Cybersecurity Institute, Drexel University

RESERVATION DEADLINE – TUESDAY, NOVEMBER 27. The cost per attendee is \$65 for Engineers' Club members, \$75 for non-members, and \$25 for government agency employees and students, for reservations received by the deadline.

RESERVATIONS RECEIVED WEDNESDAY, NOVEMBER 28 AND AFTER. Reservations received after the deadline and "walk-ups" paying at the door without prior reservations, will be charged \$85 (both Engineers' Club members and non-members) and \$45 for government agency employees and students. THERE IS NO GUARANTEE THAT SPACE WILL BE AVAILABLE IF YOU DO NOT RESERVE A SPACE.

The Philadelphia Section will NOT be accepting any reservations for this meeting.

All reservations should be directed to the **Engineers' Club**, online through the Club website, www.engrclub.org. Payment will be expected for all reservations regardless of attendance.

Toys for Tots Collection – As has been done for this event in the past, a **Toys for Tots** collection will be conducted. Please bring an UNWRAPPED toy to brighten a child's holiday.

Please join the Engineers' Club of Philadelphia and our co-sponsoring partner societies for our annual Multi-Society Meeting. This is always a good opportunity to kick off the holiday season and network with Engineers and other professionals that you might not normally see at your society meetings.

In today's world, managing a large enterprise has become much more difficult due to the flood of new information and data and rapidly-changing needs and circumstances. This is true for business enterprises, institutions and especially cities. The explosion of information and communication technologies (ICT), coupled with the increasing economic and environmental demands such as climate change, economic restructuring, the digital marketplace, urban population growth and pressures on public finances have generated interest in "smart cities" designed to use technology to try to get a better handle on the information driving the issues of the day.

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JANUARY JOINT DINNER MEETING

Delaware Valley Section, American Society of Highway Engineers

WEDNESDAY, JANUARY 16, 2019

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

PLEASE NOTE: RESERVATIONS FOR THIS MEETING MUST BE MADE THROUGH THE **DELAWARE VALLEY SECTION, ASHE**. The reservation process will be provided in the January edition of *THE NEWS*.



PRESIDENT'S MESSAGE

I am writing this month's message just about 24 hours removed from the official release of the 2018 Report Card for Pennsylvania's Infrastructure. I had the distinct honor of emceeing the Philadelphia Release event, which could not have been at better location. Over 60 people came to participate in the unveiling, which was located on the banks of the Schuylkill River between the Chestnut and Walnut Street Bridges on the Schuylkill River Trail. We had 18 report categories and I would venture to say that if you swiveled your head during the event you would have witnessed 14 of the 18 categories. We even had a CSX mixed freight

load pull alongside us just minutes before the start of the event at 11 AM.

A special thanks to all the volunteers that made the event such a glowing success. We had four diverse local infrastructure leaders that presented their unique perspective of the current condition and future needs. The distinguished leaders were:

- **Jeffrey D. Kneuppel**, General Manager, SEPTA
- **Darin Gatti**, Chief Engineer and Surveyor, Philadelphia Streets
- **Maura McCarthy**, Executive Director, Friends of the Wissahickon
- **Paul Kohl**, Director, PWD Planning and Research Unit

Cathy Farrell, our Section Past President and Report Card Co-Chair was on-point in delivering the key message that although the overall grade remained at a "C-", the same grade Pennsylvania received in 2014, there were notable improvements and regressions. Cathy pointed out that since the last report card legislative support for infrastructure, public agency planning, and a thriving economy have had tangible improvements in the status of several pieces of infrastructure within our Commonwealth. Examples of these improvements since 2014 include but are not limited to:

- The advancement of 2,600 transportation projects into construction as a result of Act 89 funding
- The construction of two new levee systems with 12 new systems/rehabilitations under design as a result of increased funding
- The implementation of a program to use a public-private partnership to replace 558 poor condition bridges.

In 2014 transportation categories such as roads and bridges were the focal point. This go around the focus was on our water infrastructure. Whether it be drinking water, wastewater, or stormwater there was notable opportunity for improvement, as the average grade for these three is a "D". In our region, the main issue is the age of the water conveyance systems. Cathy noted that "in Philadelphia alone, half of the city's water mains were installed prior to 1930 and nearly 30% were installed before 1900." Cathy further pointed out that "Pennsylvania is unfortunately the national leader in the amount of combined sewer overflows...which means that during heavier rainfalls, rain combines with sewage and enters directly into our rivers — which can be unhealthy."

The key take-away message was that building, replacing and updating water infrastructure will require leadership to plan new approaches and improve upon the existing conditions. This will take significant capital, but finding sufficient funding is critical to protecting our public health.

I leave you with three tasks this month as it relates to the release of our report card:

1. Get the full story behind this Report Card at www.pareportcard.org.
2. Find out the condition of the infrastructure near you on the **Save America's Infrastructure** app available from iTunes and GooglePlay.
3. Ask your elected leaders what they're doing to make sure your infrastructure is reliable for the future. Use your zip code to find your list of elected officials at www.infrastructure-reportcard.org/take-action.

Best,
Angelo J. Waters, PE, LEED® AP
President, ASCE Philadelphia Section
ajwaters@urbanengineers.com | 215-284-3161

DON'T FORGET ABOUT YOUR DUES!

You should have your dues statement/invoice for 2019 in hand. As a reminder, and as noted on the invoice, this is due on January 1. You can pay by check or electronically.

Your membership entitles you to be eligible for ASCE Member Advantages. These encompass benefits in several member discount programs including professional liability insurance, life insurance, credit cards and banking services, and rental car discounts (and you may have noticed more benefits have recently been added). ASCE always looks to negotiate the best deal for members. Similarly, when members save through these programs, ASCE earns revenue that helps keep your dues rates as low as possible. Please check www.asce.org for the details on these offers and

programs.

There are additionally a number of free eLearning Webinars available to help you develop critical career skills, with topics covering a broad range of technical interests, leadership development tools, and key member programs. One of the most popular benefits of membership is that every year you can earn up to five free PDHs for the eligible ASCE On-Demand Webinar courses you successfully complete. Every year we update the list of courses to ensure we have relevant and timely topics across all the major facets of Civil Engineering.

Your dues are vital to the success of our Section's activities. We appreciate your ongoing support.

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** In accordance with our Constitution and Bylaws, only the immediate Past President will serve on the Board, and only for a one-year term. We show the most recent three Past Presidents as has become our tradition.*

We wish these brave and generous folks our collective good luck for the coming season.

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530 Walnut Street, Philadelphia, PA 19106

COPY DEADLINE FOR

JANUARY 2019 ISSUE

DECEMBER 7, 2018

YOUNGER MEMBER FORUM NEWS

Sean McCreesh, Forum Editor
 Eammon Farley, Forum President 2018-19
 Michael Baker International
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TEMPLE PANEL NOVEMBER 7

The Temple ASCE Student Chapter hosted YMF at Temple University on November 7. Students provided a broad range of questions to the YMF panel, which consisted of YMF board members **Eammon Farley**, **Jacob Nichols**, and **Joe Natale**. Topics such as networking with ASCE, work experience, work ethic, Civil Engineering disciplines, construction management, college careers, etc. were discussed. The students who attended the event walked away with great career advice. YMF thanks Temple ASCE for hosting us, and being able to speak to its members.

STUDENT NIGHT AT DAVE & BUSTER'S NOVEMBER 13



On November 13, students and professionals attended YMF's Student Night at Dave & Buster's. This event was YMF's annual **Welcome Back Students** event which welcomed back local Civil Engineering students from **Drexel**, **Temple**, **Villanova** and **Widener Universities**. The event began with an hour of eating/networking followed by YMF college contact co-chair **Jake Nichols** giving announcements for upcoming events, scholarship opportunities, and information about our mentorship program and mock interview program. The group then enjoyed having fun and playing games with their free Power Cards.

CIVIL ENGINEERING CLUB ONGOING

The Civil Engineering Club at the **Chester A. Arthur Middle School** is already off to a great start this fall, making it the seventh year running! Over the past few months, Mr. Franklin and his energetic students have covered the topics of transportation and urban planning and will soon move into water resources. Each Monday, CivE Club Co-chairs **John Doyle** and **Lindsay Chateauvert** lead a short presentation for the middle school students and then move right into



the week's activity. For the past two clubs, the students separated into teams to create **Marble Run Boards** using a variety of materials including cardboard, tubing, cotton balls, and more. They worked diligently to design and construct a path that would keep the marble moving while also taking the longest time to reach the end of their boards. During the second week of the activity, the students competed against one another with the winning team having an 11-second-long path!



NEW ADDITION TO THE KIM FAMILY

YMF is delighted to share the news of YMF board member **Huyoung Kim**'s new baby boy, **Noah Han Kim**. Noah was born around 8:32PM on September 6. He weighed 7lb 4oz and was 20 in long. *Congratulations to HuYoung and Sarah on their first baby!*

DECEMBER DINNER MEETING

Continued from Page 1

The smart city concept integrates ICT tools and systems along with the "Internet of Things" (IOT) to optimize the efficiency of city operations and services and connect to citizens. Smart city technology allows city officials to interact directly with both community and city infrastructure and to monitor what is happening in the city and how the city is evolving. This panel will bring together a view of smart cities from the technology, application and "big user" perspectives, along with data security and privacy considerations.

MARK YOUR CALENDARS ENGINEERS WEEK EVENTS SCHEDULED

The **Engineers' Club of Philadelphia**, through its **Delaware Valley Engineers Week Committee**, will be celebrating **Engineers Week 2019** from **February 14 through February 23**. The schedule of events has been changed from previous years, with those to be conducted as follows:

- Opening Ceremony/Dinner: Thursday, February 14
- Young Engineers Social: Tuesday, February 19

These events will highlight the various contributions of Engineers and Engineering students in the Delaware Valley. Please note this information in your calendar and plan to participate.

More information will be provided on price, location, and other details in the coming months. Please visit www.engrclub.org for up-to-date announcements and nomination information for Engineers Week awards and scholarships.

SECTION SCHOLARSHIP PROGRAM OPEN FOR APPLICATIONS

The Section's Scholarship Program is now open for applications for the 2018-19 season.

The Section offers three distinct undergraduate scholarships annually:

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

Please visit the Engineers' Club website (www.engrclub.org) for requirements and the application process for the Engineers Week Scholarship. Applications are due by **December 10**. This will be awarded during Delaware Valley Engineers Week in February.

For the Student Scholarship, a minimum of one \$1,000 award will be made by the Section to a Civil Engineering student who is matriculated in a full-time Civil Engineering or Architectural Engineering program at one of the Philadelphia Sections five Student Chapters (Drexel University, Swarthmore College, Temple University, Villanova University, or Widener University). The applicant must be an active ASCE member.

For the Section Member Scholarship, a minimum of one \$1,000 award will be made by the Section to an undergraduate Civil Engineering student who is the child of an active Philadelphia Section member and matriculated in a full-time Civil Engineering or Architectural Engineering program at any accredited college or university. The applicant's cover letter should include his/her Section member parent's name and ASCE ID number.

The application requirements for each of these Scholarships include a cover letter containing the applicant's name, address/telephone/e-mail contacts, educational institution, GPA/class rank, resume, and additional information for consideration (such as need). A letter of recommendation from the applicant's faculty advisor should be submitted either with the application or separately. An essay (limited to 1000 words) is required.

More information on the topic of the essay and other requirements, including submission information, is available on our website (www.asce-philly.org).

We encourage all eligible students to apply. Good luck!

**Let us rise up and be thankful,
 for if we didn't learn a lot today,
 at least we learned a little, and
 if we didn't learn a little, at
 least we didn't get sick, and if
 we got sick, at least we didn't
 die; so, let us all be thankful.**

— Buddha

NOVEMBER DINNER MEETING

November 8, 2018

Preservation of Suspension Bridges

by Assunta Daprano, Editorial Assistant

Our Section met on a beautiful November night for the second section dinner of the 2018-19 year. The backroom of Maggiano's was full of excitement as members networked and discussed projects at work or home.

The evening began with an invocation by Section Past President, **Bob Wright**, as the attendees eagerly dug into the night's appetizers. Next, Section President **Angelo Waters**, spoke about the heavily anticipated release of the PA Report Card on November 14, and encouraged all to attend. Following the Section reports, **Drexel University** was welcome to the podium to present about their Chapter. **Marina D'Souza**, Chapter President, and **Callan Daley**, Chapter Events Coordinator, discussed past events and future topics they would like to explore. Section President-Elect **Kazi Hassan** introduced **Darin Gatti**, Chief Engineer at the Philadelphia Streets Department, as this month's volunteer spotlight. Darin, an alumnus of Drexel University, is their ASCE Practitioner Advisor and is a Past Section President.

While some of us munched on ravioli and chicken parm, Section President-Elect **Kazi Hassan** introduced **Barry Colford**, Vice President and **Joshua Pudleiner**, Senior Structural Engineer, both of AECOM, to discuss the preservation of suspension bridges and the importance of new technology, such as dehumidification. AECOM has an extensive Complex Bridge Practice in North America, which also focuses on the preservation of these structures.

Mr. Colford began the presentation with a health and safety moment and continued by providing various facts regarding suspension bridges. These facts included what the components of modern suspension bridges are as well as the US' suspension bridge inventory. The US currently ranks second in the global suspension bridge inventory after China. One of the oldest, more well-known suspension bridges is the **Brooklyn Bridge**, located in New York City and completed in 1883. Next, he spoke about inspection access and maintenance practices that AECOM participates. The next topic discussed was construction methods including main cable composition and compaction testing. One maintenance practice used is cable investigation to

determine if any wires are broken and cracked leading to strength loss. This investigation is done through sampling, testing and splicing. Upon the cable investigation, the wires are re-compacted and re-wrapped.

Another preservation technique used on suspension bridges is acoustic monitoring; also used to monitor cable performance and health. Mr. Colford then introduced Mr. Pudleiner to discuss field applications and preservation methods used. The presentation went on to discuss a current AECOM project as the **Delaware Memorial Bridge**, where dehumidification of the structural cables is being practiced. Over the past few years, dehumidification has become more popular as a preservation method. The dehumidification process includes inspection, soapy spray testing, plant room commissioning, flow trials, data analysis and system activation. The controls and monitoring are connected in plant rooms, with testing results overseen by an Engineer, such as AECOM Structural Engineer **Nick Kirn**, who is also the YMF Social Co-Chair. Mr. Pudleiner went on to explain the results of dehumidification and if it is a viable preservation technique. The short answer is yes, and is being applied to various suspension bridges in the Northeast US. Dehumidification can be used in other bridge components such as anchorages. Other preservation techniques, used by AECOM, include suspender rope replacements, cable bond bolt tightening and replacement and truss end link replacements. Lastly, structural health monitoring is also performed to compliment inspection and implement damage detection.

The presentation was followed by a short Q&A session and loud applause, on this very interesting and not at all "dry" topic. As a token of the Section's appreciation, Messrs. Colford and Pudleiner were each presented with our Section's speaker gift, a solar phone charger.

Maggiano's, Center City



VOLUNTEER SPOTLIGHT

November's volunteer spotlight is on **Darin Gatti**, for all his work with the college level ASCE members and his leadership within our Section.

Darin is the Chief Engineer and the President of the Board of Surveyors for the Philadelphia Streets Department. As the Chief Engineer he oversees all bridge design, transportation design, surveying, and construction management for the Streets Department. He also oversees the management of the City Plan which is the recordation of the metes, bounds, and grades of all public streets in Philadelphia.

While Darin has served many roles, including President, on the Philadelphia Section's board he currently serves at Drexel University's ASCE Practitioner Advisor. As their advisor he works to bring industry knowledge to the student members of his alma mater through presentations and mentorship. Additionally, for the past 22 years he's volunteered with the annual concrete canoe competitions where he's selflessly dedicated his time (often in cold and windy conditions) to make sure the canoe races go off without a hitch. Furthermore, he's volunteered to assist in the ASCE national concrete canoe competitions as well.

Throughout the years Darin has served as a leader, advisor, and mentor of this organization and is truly deserving of the November ASCE Volunteer Spotlight. He was cited accordingly at our November Section dinner meeting.



TECHNICAL GROUPS/CHAIRS

Information on the ASCE, Philadelphia Section's Technical Groups is given below. 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.

CONSTRUCTION

Dennis MacBride
dmacbride@septa.org

DELAWARE VALLEY GEO-INSTITUTE (DVGI)

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STRUCTURAL ENGINEERING INSTITUTE (SEI)

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TRANSPORTATION AND URBAN DEVELOPMENT

William T. Thomsen
wtthomsen@urbanEngineers.com

Please check the noted websites as well as the main Section site (www.asce-philly.org) for up-to-date information on Technical Group meetings and events. These will be included in our regular e-mail blasts as well.

**Let us remember that, as much has been given us,
much will be expected from us, and that true
homage comes from the heart as well as from
the lips, and shows itself in deeds.**

— Theodore Roosevelt



SECTIONS GRADE PENNSYLVANIA INFRASTRUCTURE

The four Pennsylvania Sections (Central Pennsylvania, Lehigh Valley, Philadelphia and Pittsburgh) recently teamed to assess the conditions of the state's infrastructure. The Sections reviewed data on 18 separate categories, including reports, studies, surveys and various other materials from professional societies, non-profit associations, as well as government agencies at the local, state and federal levels. Based on this review, a detailed assessment of the condition of our infrastructure was developed, taking into account its performance, funding, capacity and future needs.

The end product of this assessment, as is done nationally, was the **2018 Report Card for Pennsylvania Infrastructure**. The Report Card is not meant to point out shortcomings in policy, performance and/or planning, and is not meant to be critical of efforts in areas

that are admittedly difficult to manage and improve given constraints that are often beyond the control of those charged with the management and improvement of these facilities. Similarly, it is not designed to cite the failures of elected officials. It is intended to show at a glance where we are now and where we need to concentrate future resources, develop long-range financial and staffing plans, and anticipate measures which will preserve what we have so we can continue to use it rather than let it completely fail.

This effort represents the fourth such undertaking performed by the Pennsylvania Sections, prepared every four years starting in 2006. This year's effort included several new categories.

The Report Card was unveiled in four separate simultaneous ceremonies around the State on November 14. Our Section conducted this at Schuylkill River Park, with notable speakers including Section Members **Jeff Kneuppel**, General Manager of SEPTA, and **Darin Gatti**, Chief Engineer of the Philadelphia Department of Streets. Over 60 attendees braved the chilly weather and attended our ceremony.

In most categories, the grade has not changed. While much has been done to address conditions, facilities continue to age and resources have not been available to do much more than to play "catch-up."

The Report Card can be viewed and downloaded at www.pareportcard.org. Results from previous Report Cards are included on the website as well for comparison.

We thank Past President **Cathy Farrell** for her diligent efforts as Co-Chair of the effort and her leadership and spearheading this time around. She was assisted by over 70 volunteers across Pennsylvania who performed the analyses and comparisons, gathered data, and completed reports to support the assigned grades. Those who participated in this effort from our Section include the following (category chairs are indicated with *):

Report Card Steering Committee:

Cricket Slattery, EIT, *Advantage Engineers*
Ann Tomalavage, PE, *Malarkey Consulting*
Robert Wright, PE, *McMahon Associates*

Authors/Contributors:

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Angelo Waters, PE, *Urban Engineers* *
Jennifer Waters, PE, *Urban Engineers*
Robert Wright, PE, *McMahon Associates* *
Laura Zale, *SEPTA*



Courtesy of Urban Engineers

ENVIRONMENTAL AND WATER RESOURCES TECHNICAL GROUP MEETING

DATE: Tuesday, December 4

SUBJECT: Philadelphia Floodplain Development and Regulations

SPEAKER: Josh Lippert, Floodplain Manager, City of Philadelphia Department of Licenses and Inspections (L & I)

LOCATION: Pennoni Associates, 1900 Market Street, Suite 300, Philadelphia (Center City)

TIME: 11:45 AM registration, 12:00 Noon presentation (lunch will be provided)

COST: Members \$15, government employees and students \$10

RSVP by Monday, December 3

This presentation of the **Floodplain Training Session** will provide you with a better understanding of the opportunities and challenges dealing with floodplain development. Mr. Lippert will provide an overview of the National Flood Insurance Program (NFIP) and current Philadelphia floodplain regulations. This will include an outline of the City's review requirements and the process will be detailed with practical resources and best practices.

Reservations and payment can be made by PayPal at our Section's website (asce-philly.org). Payment for reservations by check can be made at the event (checks should be made payable to "Philadelphia Section ASCE"). Contact **Eric Lindhult** (215-852-0068 or eric.lindhult@gmail.com) if you have any questions or if you will be unable to attend after you have registered.

Attendees are eligible for one (1) Professional Development Hour (PDH) for attending this presentation.

THANKS TO OUR SPONSORS

We extend our special and collective THANKS to each of our 14 current sponsors for their financial commitment and support.

Sponsor logos are displayed in a special Sponsors section of our website. Additionally, we provide direct links to sponsors' own websites so prospective employees can review all available and up-to-date positions. We also offer sponsors the opportunity to have a "spotlight" article in an edition of *THE NEWS* as well as service as a sponsor of one of our monthly dinner meetings.

If you have an interest in joining our sponsorship program, there's still time to be part of this season's group. Please contact **Bob Wright** at newseditor@asce-philly.org for more details.



We thank all those who volunteered and assisted for their efforts and time.

SECTION COMMITTEES

If you have a particular interest in helping the Section as a Committee volunteer, this list advises you what groups we offer. If you would like to join a Committee, please reach out to us at volunteer@asce-philly.org or through our Section Secretary, **Briana Earle** (contact information is provided on page 2).

Audit – Kazi Hassan

Awards – Bob Wright

Budget and Finance – Jen Reigle

Civil Engineers in Government – Jeanien Wilson

College Scholarship – Andrew Bechtel

Communications – Briana Earle

E-mail Outreach – Mohammed Elghawy

Newsletter – Bob Wright

Sponsorship – Bob Wright

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Continuing Education – Angelo Waters

High School Scholarship Exploration – Joe Natale

Humphrey Fund – John Zarsky

Legislative Affairs – Spencer Finch

Membership – Mohammed Elghawy

Mural – Angelo Waters

Nominating – Cathy Farrell

PA Report Card Philadelphia Promotion – Cricket Slattery

Program – Angelo Waters

Venue Coordination – Troy Illig

Society Relations – Cathy Farrell

Region 2 Governors – Carol Martsoff,
Jack Raudenbush

Region 2 Younger Member Representative – Chris Renfro

PA Council – Cathy Farrell, Bob Wright

Delaware Valley Science Fairs – Chris Rood

Spring Social – Troy Illig

Subsidiary Groups – Kazi Hassan

Construction Management – Dennis MacBride

Delaware Valley GeoInstitute – Archie Filshill

Environmental and Water Resources – Eric Lindhult

Structural Engineering Institute – Joe Fazio

Transportation & Urban Development – Bill Thomsen

Younger Member Forum – Eammon Farley

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CONTACT US AT
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FOR DETAILS



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