

SECTION MEETING SCHEDULE 2019-20

The Section Meeting program for the upcoming season is starting to take shape. Our meeting program committee is busy lining up speakers and topics for what we hope will be an interesting and informative series of meetings. As we usually do, we have provided more detailed information for the next two meetings, with dates and other “look-ahead” information known at this time provided below for future meetings, for your planning purposes. We would suggest that you use this to mark your calendar at this time and hold these dates.

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

Information on future meetings this season as of this printing are:

2019

December 10 – Engineers’ Club of Philadelphia – Multi-Society Meeting. In planning stages.

2020

January 15 (Wednesday) – Joint Meeting with American Society of Highway Engineers, Delaware Valley Section
Radisson Hotel /Valley Forge Casino, Valley Forge. Cocktails 6PM, dinner 7PM, meeting 8PM
TOPIC: I-95/Scudders Falls Bridge Update

February – In planning stages.

March 12 – Maggiano’s Little Italy, Center City
Topic to be determined

April 9 – Multi-topic meeting/breakout sessions, in planning stages

May – Spring Social, in planning stages

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.

OCTOBER DINNER MEETING

American Society of Civil Engineers, Philadelphia Section

THURSDAY, OCTOBER 10, 2019

Maggiano’s Little Italy, 1201 Filbert Street (corner of 12th Street), Center City
Cocktails 5:30PM, Dinner 6:30PM, Meeting Presentation Follows (approximately 7:30PM)

SUBJECT: Abington Township – Edge Hill Road/Tyson Avenue Improvement Project

SPEAKER: Debra Ferraro, PE, Associate Vice President, Pennoni Associates, Inc.

RESERVATION DEADLINE – THURSDAY, OCTOBER 3. The cost per attendee is \$40, with a half-price (\$20) cost for government agency employees and students, for reservations received by this deadline.

Reservations can be made through our website (www.asce-philly.org) and paid via PayPal. This option will NOT be available after the reservation deadline. Payment for reservations by check (made payable to “Philadelphia Section ASCE”) will be accepted at the reservation table at the door as an option to electronic payment.

Reservations received after the deadline and “walk-ups” without prior reservations paying at the door will be charged \$50 (government agency employees and students will be charged the regular \$20 rate), and will be subject to acceptance on a space-available/standby basis.

Our “express” check-in process will be in place for those who reserve and pay via PayPal. Please print your paper ticket when you reserve and bring the ticket with you. This will allow you to enter the meeting room and bypass the registration table.

All registrations are final. Due to our commitment with event venues, cancellations or no-shows will be invoiced for the full cost of the event. Registrants are able to transfer their registrations to others without penalty.

As always, guests will be welcome to attend the presentation without dinner at no charge. This will be subject to room capacity constraints.

ACCESS AND PARKING: Maggiano’s is a short walk from SEPTA’s Jefferson Regional Rail station and a half-block from bus routes, the Subway-Surface Trolleys and the Market-Frankford Line on Market Street. There is a parking garage directly above the restaurant for which validation can be offered for a reduced price.

Join us for a lessons learned on the Edge Hill Road and Tyson Avenue Reconstruction Project in Abington Township. Ms. Ferraro, the Project Manager, will share her experience on design and construction of this roadway improvement project that entailed extensive drainage and safety improvements, with considerable community input in the design phase.

Ms. Ferraro serves as an Associate Vice President and Transportation Division Manager at the Center City office of Pennoni. She provides design, planning, permitting, bidding, construction, and municipal consulting services to public and private sector clients. She has over 25 years of transportation experience and has delivered projects for a diverse range of private and public clients, including PennDOT, SEPTA, the Philadelphia Industrial Development Corporation (PIDC), the Delaware River Joint Toll Bridge Commission (DRJTBC), and numerous municipalities.

Attendees will be able to earn one professional development hour (PDH) at this meeting.

NOVEMBER DINNER MEETING

American Society of Civil Engineers, Philadelphia Section

THURSDAY, NOVEMBER 14, 2019

Maggiano’s Little Italy, 1201 Filbert Street (corner of 12th Street), Center City
Cocktails 5:30PM, Dinner 6:30PM, Meeting Presentation Follows (approximately 7:30PM)

More information will be provided in the November edition of *THE NEWS*.



PRESIDENT'S MESSAGE

Hello fellow Civil Engineers and supporters of the Civil Engineering community!

It's an honor for me to represent American Society of Civil Engineers here in Philadelphia. We may have crossed path in several ways, but for those of you that don't know me, I wanted to share a little about me and my background.

I was born in a small village in Bangladesh, approximately 8,000 miles away from Philadelphia. My dad decided to move to the United States in the late 80's in pursuit of the American Dream and to provide a better situation for our family. Subsequently, I arrived to the Philadelphia suburbs in the early 90's with my mom and my sister. Growing up in a new country, learning a new language, and adjusting to a new culture was no easy feat, but over time America has become my new and permanent home.

Fast forward to 2019, I'm a Licensed Civil Engineer living in West Philadelphia with my wife Ria and our 2 year old daughter, Zanaya. I have been working as a Transportation Engineer for over 13 years and being able to contribute to Philadelphia's infrastructure has been a blessing. The projects all of us work on benefit the society as a whole and makes this country a better place to live. That was one of the main reasons my father uprooted our family and moved 8,000 miles away.

In addition to working as an Engineer, ASCE has given me the opportunity to contribute to our society by volunteering in different ways. The Philadelphia Section of ASCE is one of the most active Sections in the country due to the tremendous effort of all our Volunteers/Engineers. All the volunteers are working towards ASCE's mission, "to provide essential value to its members and partners, advance Civil Engineering, and serve the public good."

As I shared in my President's introduction speech in May 2019, I want to focus the Section's attention on 3 areas in the upcoming year:

- Continue to improve our internal operations.
- Increase our membership numbers.
- Provide necessary support to the YMF for the Eastern Regional conference that will be held in Philadelphia in 2020.

If you believe there are ways the Philadelphia Section can improve and help you in other ways, please feel free to reach out to me. We are also looking for volunteers for various events and tasks. If you have time you can dedicate to ASCE, I can promise you it will be worth it. This quote sums up all our dedicated volunteers:

"Volunteers do not necessarily have the time; they just have the heart."

~Elizabeth Andrew

Again, it's my honor to serve as the Philadelphia Section's President in its 107th year. By utilizing the Section's experience, I hope to make 2020 another successful year for ASCE and the Civil Engineering community!

Best,
Kazi M. Hassan, PE
President, ASCE Philadelphia Section
kazihassan@pennoni.com | 215-254-7720

N-ASCE*

Quite a bit happened this summer that you may have missed, but luckily we didn't (still diligently working while we were on our break), so we'll catch you up.

MAD MAGAZINE ENDS PUBLICATION

In early July, it was announced that the long-running satirical publication MAD magazine will be leaving newsstands this fall. The illustrated humor magazine will still be available in comic shops and through mail to subscribers, but after its fall issue it will just reprint previously published material.

The only new material will come in special editions at the end of the year. DC, the division of Warner Brothers that publishes the magazine, said MAD will pull from nostalgic cartoons and parodies published over the magazine's 67-year run.

From its debut in 1952, MAD became an iconic pop cultural reference for generations of Americans, young and old alike. Its recurring illustrated

features like Antonio Prohías' "Spy vs. Spy" and Dave Berg's "The Lighter Side of..." gave the magazine intellectual credibility while remaining comedic, as one played on Cold War tensions with Russia while the other looked at American culture through a sarcastic lens highlighting misunderstandings between the Silent Generation and Baby Boomers. MAD's mascot, the gap-toothed, shaggy-haired Alfred E. Neuman, appeared on nearly every cover over the years beside satirical illustrations of prominent figures in entertainment, sports and politics.

No mention was made of the future of the "usual gang of idiots," as the staff artists and writers were always described in each edition's table of contents.

BOSTON MARATHON "CHEAT" PASSES

More bad news from early July, as the infamous Rosie Ruiz, known for cheating in both the Boston and New York Marathons, passed away at the age of 66. She was the first woman to cross the finish line at the prestigious Boston Marathon in 1980 in course-record time of 2:31:56. She was

Continued on Page 8

ASCE, PHILADELPHIA SECTION OFFICERS AND BOARD OF DIRECTION—2019-20 SEASON

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Kazi M. Hassan, Pennoni

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PAST PRESIDENTS*

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Guy DiMartino, Traffic Planning & Design, Inc.

**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.*

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530 Walnut Street
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**COPY DEADLINE FOR
NOVEMBER 2019 ISSUE
OCTOBER 11, 2019**

YOUNGER MEMBER FORUM NEWS

Assunta Daprano, Forum Editor
Jesse Gormley, Forum President 2019-20
 Pennoni Associates
 jgormley@pennoni.com

YMF SUMMER SOCIAL – PHILLIES GAME JULY 26

YMF hosted its Phillies Game Summer Social on Friday, July 26. The event was well attended, with over 100 participants ranging from college students to section members. Attendees munched on burgers, dogs and other snacks, while enjoying the perfect weather and each other's company. Although the Phillies lost 9-2 against the Braves, the social was well received and enjoyed by all. Thank you to the YMF Social Co-Chairs, **Ajin Fatima** and **Nick Kirn**, for planning the event and to all those that attended. Have a great summer!



YMF COMMUNITY SERVICE EVENT – LIFE DO GROW FARM AUGUST 17

In collaboration with **Urban Creators**, YMF volunteered at the **Life Do Grow Farm** on Saturday, August 17. The farm is located a couple blocks north of Temple University, nestled against a SEPTA Regional Rail retaining wall. At the Farm you can find jalapenos, bell peppers, sweet peppers, scotch bonnet, watermelon, carrots, tomatoes, basil, mint, lavender, thyme, beets and more depending on the season. When the volunteers arrived, we were greeted by Alex, one of the farm's founders, and Jovon, one of the farm managers.

Most of what the volunteers accomplished was in preparation for an event they were having the next day. We first helped clean up and organize the kitchen and classroom areas in preparation for a chef that would be cooking with vegetables straight from the farm. Then we moved a pile of compost make way for a seating area where guests could come and listen to a DJ that would be playing the next day. Finally, we got to weed two rows of peppers. At the end of the day we were sweaty, covered in dirt, exhausted, smiling, and laughing. Thank you to **Darren Black**, YMF Community Outreach Chair, for planning the event, **Alex** and **Jovon** for hosting YMF, and all those that volunteered. We hope to be back soon!

ASCE YOUNGER MEMBER LEADERSHIP SYMPOSIUM AUGUST 9-11, 23-25

Several members of the YMF Board participated in the 2019 edition of the ASCE Younger Member Leadership Symposium (YMLS) at ASCE Headquarters in Reston, VA. Session 1 was held from August 9 to 11 and Session 2 was held from August 23 to 25. Two of the YMF Board

members, **Joseph Natale** and **Dennis Wilson**, were directly involved in the planning and organizing of the weekend. Board members **Christopher Medora** and **Danielle Schroeder** attended YMLS for the first time this year. YMLS included excellent sessions on a wide range of topics, including developing your personal vision, influencing corporate culture, and strategic networking. During the YMLS, the Board members in attendance were able to connect with colleagues from the many different YMF's and YMG's around the globe and bring back best practices to their local Section.

When asked about their experiences at YMLS, the attendees had the following to say:

"For me, assisting with presenting and planning the Symposium always highlights how many passionate volunteers we have across the country. It helps renew my own energy to volunteer at home." – Joseph Natale

"I was thrilled to have the opportunity to present at this year's YMLS. After being a first time attendee last year, presenting provided me with a much different, but equally rewarding experience." – Dennis Wilson



"Attending the YMLS for the first time connected me with young Engineers from around the country and provided me with an understanding of how to effectively communicate with not only other Engineers, but people in general. YMLS gave me an insight into how to be a better leader, and most importantly, to be a better person." – Christopher Medora

"Attending YMLS for the first time was an unforgettable experience where I was able to develop my personal vision statement, learn from seasoned project managers about the transition into a PM role, and how I can get involved with public policy through ASCE. I was inspired by the accomplishments of my peers in attendance who are making a difference at their company, ASCE Sections, and in their general communities and I am excited to keep in touch to see what other amazing things they do during their careers. ASCE YMLS is an excellent program that I would recommend that any younger member attends in the future!" – Danielle Schroeder



YMF END OF SUMMER SOCIAL – URBAN VILLAGE BREWING CO. SEPTEMBER 5

YMF gathered at Urban Village Brewing Co., in Northern Liberties, to celebrate the final days of

summer with its annual group photo and networking social. After posing for a group photo, with the Urban Village murals in the background, the nearly 60 attendees proceeded to enjoy appetizers and drinks amongst the company of their fellow members and colleagues, as well as pose for additional photos of alumni and students from many of the local colleges. With perfect weather, a beautiful sunset, and many pins and stickers handed out, the event was a success! Thank you to the YMF Social Chairs, **Caroline Voigtsberger** and **Joseph Natale** for organizing the event and to all those who attended.



ASCE PHILADELPHIA YMF BOARD UPDATE 2019 – 20 SEASON

The ASCE Philadelphia YMF is proud to announce its officers for the 2019-20 board year! Please join us in welcoming the following Board members:

President: **Jesse Gormley**, Pennoni

Vice President: **Katrina Lawrence**, McCormick Taylor

Treasurer: **Tim Abel**, Pennoni

Secretary: **Dennis Wilson**, McCormick Taylor
Awards Chair: **John Doyle**, Traffic Planning & Design

CivE Club Co-Chairs: **Lindsey Chateauvert**, Amtrak and **Sean McCreesh**, Pennoni

College Contacts Co-Chairs: **Paige Glassman** & **Tyler Farley**, both of Traffic Planning & Design

Community Service Co-Chair: **Ajin Fatima**, City of Philadelphia Streets Department and **Darren Black**, Jacobs

IT Chair: **Jacob Nichols**, Pennoni

K-12 Outreach Co-Chairs: **Danielle Schroeder**, Pennoni and **Christopher Medora**, Gannett Fleming

Professional Development Chair: **Nick Kirn**, AECOM

Public Relations Chair: **Assunta Daprano**, AECOM

Social Events Co-Chairs: **Caroline Voigtsberger**, NV5 and **Joseph Natale**, DVRPC

Social Media Chair: **Cricket Slattery**, Advantage Engineers

Society Liaison Chair: **Kirsten Brown**, Urban Engineers

Student Transition Chair: **Kevin Walsh**, Pennoni

Technical Event Co-Chairs: **HuYoung Kim**, Timothy Haahs and Associates, Inc and **Marty Williams**, KMJ Consulting

Past President: **Eammon Farley**, Michael Baker International

Thank you all for your dedication to the YMF and good luck during this new board year!

PA REPORT CARD CATEGORIES OF THE MONTH

Having been off for a couple of months, we've got some catching up to do...



FREIGHT RAIL

By 2035, 246 million tons of freight is expected to pass through the Commonwealth of Pennsylvania, an increase of 22% over 2007 levels.

Pennsylvania's 64 freight railroads operate on 5,604 miles of track across the state, ranking it the 4th largest rail network by mileage in the U.S. Pennsylvania's railroad freight demand continues to exceed current infrastructure. Improvements such as double stacking, addition of parallel tracks, and larger transfer facilities would help improve capacity. Despite competing interest, the Pennsylvania Department of Transportation's Freight Rail Bureau has continued to procure impressive levels of freight infrastructure funding, which directly or indirectly supports multi modal transportation projects throughout the Commonwealth. This public funding is in addition to all private support committed. It has further produced the most comprehensive state rail plan to date, with a strong emphasis on understanding stakeholders and their needs.



HAZARDOUS WASTE

From 2005 to 2015, the amount of hazardous waste generated in the Commonwealth annually decreased by 18.5%, for a total decrease of 26.1% since the inception of biennial reporting in 2001.

Pennsylvania has made notable progress in reducing the amount of EPA-regulated hazardous waste generated and in cleaning up and redeveloping abandoned contaminated sites. Since 2014, the Commonwealth has been the benefactor of over 1,800 brownfield cleanup sites under the Act 2 Land Recycling Program. Funding for environmental protection within the Commonwealth remains an issue. Although available revenue has modestly increased since 2013, the PADEP general fund still remains approximately 40% lower than it was 15 years ago in 2003. Without action, the environmental values expressed in the Pennsylvania Constitution and progress noted above will be jeopardized.



LEVEES

With the average age of levees in Pennsylvania approaching the typical design life of a levee system, further action is needed to keep Pennsylvanians safe from flooding.

With two new levee systems in Bloomsburg and Mt. Carmel constructed since 2014, and five new systems and seven rehabilitations currently under design, Pennsylvania is expanding and modernizing its levee infrastructure. Meanwhile, the US Army Corps of Engineers (USACE) substantially improved its online National Levee Database and over the past four years has expanded the National Levee Safety Program to include inspections of non-state, non-Federal levees and a hazard potential classification system. Yet, there is a growing need to rehabilitate aging levee systems, an often-underappreciated threat to flood-prone communities, and a need to re-evaluate levee designs based on outdated flood frequency statistics. In addition, municipalities which own and manage most levees often lack expertise needed to expedite needed rehabilitations.

THE MULFORD CLASSIC GOLF OUTING

If you're looking for a fun and interesting day on the golf course, please mark the date of **Monday, October 14** in your calendar and plan to join us fun-seekers at the **20th Annual Engineers' Club/Philadelphia Engineering Foundation (PEF) Golf Tournament**, also the **4th Annual Mulford Classic**. It will be conducted at the **Bala Country Club** in Wynnefield. Various sponsorships, foursomes, and individual play are available.

If you are a serious golfer, you're welcome to attend as well, but be prepared to have fun and play a slightly different variety of the game of golf than your usual rounds. If you don't golf at all, volunteers for various event duties are always welcome. This is all for a good cause – PEF funds and administers college student scholarships and prizes in conjunction with the Engineers' Club that are awarded during Engineers' Week.

Please visit the **Engineers' Club** website (www.engrclub.org) for more information and registration.

2019 VUSP MUNICIPAL WORKSHOP AND BIENNIAL STORMWATER MANAGEMENT SYMPOSIUM

The biennial Workshop and Symposium will be conducted from **Tuesday, October 15 through Thursday, October 17** at **Villanova University**. This year's event will celebrate over 20 years of research at Villanova supported by Pennsylvania's non-point source program.

The Municipal Workshop, held in partnership with PEC and PSATS, will be held on Tuesday in the CEER building on Villanova's campus and is specifically designed for non-engineers, municipal officials, and staff. Join us for a day of networking and discussion with municipal officials, staff, and stormwater stakeholders featuring keynote speaker **Lee Murphy** of the Pennsylvania Department of Environmental Protection.

The Conference will consist of breakout sessions, where we will hear from a variety of sources from researchers, to consultants, to the public sector. Wednesday's events conclude with a poster session and networking reception, while on Thursday registrants have the opportunity to

SPONSORS IN THE NEWS

CHANGES AT THE TOP AT PENNONI

Pennoni announced several changes in top management effective July 1.

David DeLizza has been appointed as the firm's new President and Chief Executive Officer, the fourth person to hold this position in the firm's 53-year history. Dave's leadership and considerable experience with the firm over the last 40 years, most recently as the Chief Operating Officer, makes him an excellent choice. "Dave has a proven track record of demonstrating our goals of excellent reputation, profit, and growth through strong leadership, as well as expressing Pennoni's core values of honesty, integrity, and service in all business dealings with both external and internal clients," said **C.R. "Chuck" Pennoni**, Founder and Chairman. "Dave's vision for Pennoni's future is developed with a deep understanding and passion for the consulting engineering profession."

Dave replaces **Anthony Bartolomeo**, who has served as President and CEO for the past 20 years. Tony will continue to contribute in the success of the transition to be concluded at the end of this year. He joined Pennoni in 1986 and has more than 30 years of experience in environmental engineering. He is a respected and recognized leader in both the local business community and the A/E/C industry. He has spearheaded the development of the "ASCE Grand Challenge," a call-to-action for the Civil Engineering profession and is a Distinguished Member of ASCE as well as our Section's 2019 Philadelphia Civil Engineer of the Year (see the separate article on this in this issue).

To succeed Dave as the firm's new Chief Operating Officer, another David, **David Pennoni** has been promoted. He has over 35 years of experience at Pennoni, rising from Graduate Engineer to most recently the Regional Vice President and has helped grow the Greater Philadelphia region by more than 40% over the last eight years. His experience includes an emphasis on client satisfaction and a strong grasp of the multiple services offered by the firm.

Congratulations to all!

VUSP WORKSHOP

Continued from previous column

take one of three tours (Delaware River Watershed Initiative research sites, Spectrum of GSI in West Philadelphia, or the new raingardens, planters and water reuse system for the Commons, Villanova's brand-new residence halls). PDH's will be awarded to participants.

Please visit <https://www1.villanova.edu/villanova/engineering/research/resilient-water-systems/vusp/2019SWMSymposium.html> for more information and registration. Please direct any questions to VUSP@villanova.edu.

PROFESSIONAL DEVELOPMENT REQUIREMENTS UPDATE

As you may be aware, professional engineers, land surveyors and geologists in many states are required to obtain continued professional development (CPD) credit to renew their licenses in many states. Locally, this includes Pennsylvania, New Jersey and Delaware.

Hopefully, at this late date, with your PA license about to expire at the end of September, you have the PDH's you need for renewal. To start planning for the licensing period that will begin on October 1, you should keep in mind that our Section's meeting program is generally able to count toward your continuing education requirement (meetings that the Section believes would not count will be prefaced as such in the meeting announcement) for many states. We also offer various Technical Group and YMF meetings and events that offer PDH credit. We continue to have a verification program in place to help our members obtain and track PDH's. Over a two-year licensure period, our Section meeting program alone could amount to half of what one needs to meet many states' requirements.

In addition to this, ASCE National offers free on-demand webinars and coursework that will get you up to 10 PDH's (this level is new this year, double from that previously available) as a benefit of your membership. Information on this is available in the Membership section of the ASCE National website (www.asce.org). There are other offerings that are available from National at cost to help you pick up what you may need as well.

If you don't yet have the letters PE after your name and are thinking about going for it, please check ASCE's live exam review courses. This allows one to interact with instructors during live webinars and access free on-demand recordings 24/7 until the exam date. The courses reference codes specified by NCEES for the exam. You can feel confident with the most comprehensive and convenient way to prepare for and pass the exam. More information is available on the ASCE National website.

**Men build bridges and throw
railroads across deserts, and yet
they contend successfully that
the job of sewing on a button is
beyond them. Accordingly, they
don't have to sew buttons.**

— Heywood Hale Broun

NEWS FROM NATIONAL

NATIONAL CONVENTION – MARK YOUR CALENDAR



**ASCE CONVENTION
HYATT REGENCY MIAMI
MIAMI, FLORIDA
OCTOBER 10–13, 2019**

Mark your calendar and plan to attend the ASCE 2019 Convention in Miami. Experience the future of Civil Engineering, catch up with the latest industry trends, and meeting with innovative leaders at the Convention. It continues to be the premier Civil Engineering event each year.

Please visit www.asceconvention.org for more information.

LOOKING TO REFER A NEW MEMBER OR BE A MENTOR OR PROTÉGÉ?

As a participant in ASCE's **Member Get A Member** referral program, you'll receive a \$50 Amazon.com gift card for each newly-joining professional member you refer. You can refer up to five colleagues at a time.

Also, ASCE's **Mentor March** provides an online platform to connect members (both mentors and protégés) using common interests and specific expertise for maximum career development.

Please visit asce.org for more details and information on each of these programs.

THANKS TO OUR SPONSORS – GOING STRONG FOR 29 YEARS

At this early point in our season, we are proud to note that 10 firms have agreed to participate in our Section Sponsor program. We extend our special and collective THANKS to each sponsor for their financial commitment and support.

And, as noted in the title, we are entering our 29th year of the sponsorship program! When we first rolled out our sponsorship program at the start of the 1991-92 season, there were nine firms that participated in it (2 of these remain as sponsors today!). Thanks to all of you who have participated in this over the years.

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* (please see the separate article on one of our sponsors in this issue).

We contacted last year's sponsors in mid-August to determine their interest for this season, so if you were "in" last year but haven't yet renewed, we look forward to having you back.

If you have an interest in joining our sponsorship program, please contact **Bob Wright** at newseditor@asce-philly.org for more details.

ENVIRONMENTAL AND WATER RESOURCES TECHNICAL GROUP MEETING

THURSDAY, OCTOBER 3, 2019

SUBJECT: Moving Towards A Dynamic Perspective on Stormwater

SPEAKER: Bridget Wadzuk, Ph.D., Professor, Civil and Environmental Engineering, Villanova University

TIME: Registration 5:30 PM; Dinner 6:00

LOCATION: Peppers; 239 Town Center Rd, King of Prussia, PA

COST: \$35 per person; \$25 per student or government employee

The dynamic nature of green infrastructure design is needed to smartly and efficiently implement these systems. Case studies from southeastern Pennsylvania rain gardens and tree trenches are used, although the framework is generally applicable.

Current stormwater green infrastructure (GI) design typically uses static principles, even though long-term monitoring indicates that these systems are anything but static. Infiltration is an active process during a storm event, evapotranspiration restores soil storage capacity between events, and there are seasonal and annual variations of components in the hydrologic cycle. As municipalities adopt GI as a stormwater management strategy and embrace smart development approaches, it is important to optimize siting, improve construction economics, and efficiently maintain GI. Considering the dynamic nature of stormwater GI and the associated hydrologic processes will move design forward. Examples from southeastern Pennsylvania rain gardens and tree trenches are used to demonstrate concepts, although the framework is more generally applicable.

Please **RSVP** by Noon on **Wednesday, October 2** to **Eric Lindhult**; 215-852-0068; eric.lindhult@gmail.com RSVP via online reservations, space is limited. Paypal is available for this event.

ANNETTE C. PENNONI

We are sad to report the passing of Annette Pennoni, wife of Past National/Section President Chuck Pennoni, on July 1. Annette attended Mass daily at St. John Neumann Church and belonged to the choir for both it and St. Andrew Church. She served as a Eucharistic Minister and was actively involved in the Meals on Wheels Program. She was a member of the Haverford Township Adult School Board. When our Section had a Ladies' Auxiliary several years ago, she was actively involved in it and directed several activities and efforts over the years.

Annette is survived by her beloved husband, four children and 12 cherished grandchildren.

Contributions in Annette's memory may be made to Basilica of Saints Cyril and Methodius, 580 Railroad St, Danville, PA 17821.

THE 2019 SPRING SOCIAL – NEW AND INTERESTING VENUE...

Our 2019 Spring Social was a little later than it has been in the past several years – while we usually have this in early May, this time, we were more than halfway through the month by the time it was celebrated. And being that much later in spring, the weather was a bit summerlike at the end of the day, when about 120 of our members and guests walked into the Masonic Temple in Center City to close another successful season and start up the next one. The Temple is one of those places that anyone in Center City will see and pass by often but most have generally not been inside, and the detailed architecture and treatments were able to be enjoyed by all during the happy hour in the great hall on the second floor as well as when we returned to the first floor for dinner in the main room. As we gathered for dinner, Past President **Ruben David** was called upon to give his usual profound blessing of the meal.

After a nice dinner, the usual order of business proceeded. Both of our top prize recipients at the Delaware Valley Science Fairs were able to attend, with their award-winning projects on display during the cocktail hour. Nine individuals were nominated for Section Awards and these were presented. The slate of incoming Officers and Board Members for the 2019-20 season was introduced, with Past President **Bob Wright** administering the Oath of Office. The “finale” of the evening was the passage of the gavel, as President **Angelo Waters**, following a slightly-longer term given the late date of the Social, finally was able to bestow the title and the accompanying gavel to incoming President **Kazi Hassan**, who gave a few short remarks and sent everyone home (or wherever... we understand an impromptu happy hour continued at a local establishment... little surprise) when he closed the ceremony.

As noted, we invite our Section’s Science Fairs awardees to attend the Social and show off their winning projects. Past President **Bob Wright**, standing in for Past President **Chris Rood**, chair of the Section’s Science Fairs judging contingent, recognized them. These possibly-future Engineers were Grades 6-8 First Place winner **Mason Matich**, an 8th grade student at Holicong Middle School in Doylestown, with his project “*Shake, Rattle and Roll – Seismic Design Effectiveness*,” and Grades 9-12 First Place recipient **Madison Surette**, a 10th-grader at the Marine Academy of Technology and Environmental Science in Stafford Township, NJ, presenting “*The Effects of Beach Erosion Observed Through Profiling*.” Both students’ projects were on display during the networking hour and they ably interacted with and responded to questions from attendees.

Nine Section members were nominated for Awards this year. The audiovisual presentation that has been produced for this purpose appeared to be well-received (as usual). Information on each of the awardees follows.

PHILADELPHIA CIVIL ENGINEER OF THE YEAR

Anthony Bartolomeo

Tony was the recipient of our Section’s highest honor this year. He is the President and Chief Executive Officer of Pennoni Associates at the firm’s headquarters in Center City. He joined Pennoni in 1986 and has more than 40 years of experience in Environmental Engineering, coupled with broad experience in relationship development at the federal, state, and local government levels, all of which have a stake in the success of major civil infrastructure projects. He has integrated the engineering and financial aspects of major projects into legal, regulatory, and community objectives, to the benefit of Pennoni’s diverse client base, and has directed the firm in its successful efforts to expand into new geographic areas.

Tony serves as a member of the Board of Directors for a number of non-profit organizations, including the Greater Philadelphia Chamber of Commerce, the Advisory Board of the School of Civil and Environmental Engineering at Rutgers University, and the Governor’s Marcellus Shale Advisory Commission in Pennsylvania. He is a member and past chair of both the ASCE Industry Leaders Council and the American Council of Engineering Companies Design Professionals Coalition. He led the development of the ASCE Grand Challenge, which aspires to reduce the life cycle cost of our nation’s infrastructure systems by 50 percent by 2025.

Tony received his Bachelors degree in Civil and Urban Engineering from the University of Pennsylvania in 1974. He has professional licensure in three states. Throughout his career he has been a strong and tireless proponent of our profession.

PHILADELPHIA YOUNG CIVIL ENGINEER OF THE YEAR

Joseph Natale

Since this past Fall, Joe has served as a Senior Projects Implementation Coordinator at the Delaware Valley Regional Planning Commission. In this position he manages federally-funded projects for the non-traditional types of transportation projects that address multi-modal concerns and issues. These include efforts that provide safe routes to school, pedestrian connections to transit, and multi-use trails throughout the Philadelphia Region. He additionally coordinates these projects among the various stakeholders, including the local sponsor, affected municipalities and townships, and PennDOT, to obtain the necessary reviews and approvals. He held positions at a local consulting firm and a government agency prior to his engagement at DVRPC.

Joe received his Bachelors degree in Civil Engineering from the University of Delaware in 2008 and continued there for his Masters degree in 2013. He has been very involved in our Section over the past few years as a Director, Assistant Treasurer, and webmaster, as well as an active member of our Younger Member Forum. He was installed into the Treasurer position for this season at the Social. He and his wife Janine are residents of Yardley.

YOUNG GOVERNMENT ENGINEER OF THE YEAR

Ajin Fatima

Ajin has been with the City of Philadelphia Department of Streets for the past three years, where she serves as a Design Engineer in the Bridge Section of the Engineering, Design and Construction Division. She is involved with the design and development of plans and specifications for the Department’s bridge replacement and rehabilitation projects as well as the review of documents produced by consultants for these projects. She additionally collaborates with consultants to determine and ensure that the Department’s standards are met in the documentation, such as roadway paving, curb and sidewalk replacement, traffic control, street lighting and drainage. This includes the implementation and use of temporary traffic controls and vehicular and pedestrian accommodation when the public right-of-way is impacted by private site construction.

Ajin is a graduate of Drexel University, where she earned her Bachelors degree in Civil Engineering in 2015 with a minor in Engineering Management. She is involved with the ACE Mentoring program as well as with our Section and currently serves our Younger Member Forum as co-chair of the Social Committee. She and her husband, Sadaf Bahara, live in West Philadelphia.

GEOTECHNICAL ENGINEER OF THE YEAR

M. Ayub Iqbal

Ayub manages and directs the operations of his firm, Applied Geoscience & Engineering, which offers professional Civil Engineering consulting services, with special emphasis in the geotechnical and environmental areas. His firm was established in 1979 and reorganized into its current form in 1990. It provides engineering and consulting services to a broad base of clients in the public and private sectors, including numerous utilities, industries, and commercial businesses. Included among the firm’s efforts are major transportation projects involving highway and railroad bridges, roadways, airports and runways. As President of the firm, Ayub oversees the provision of services performed during various phases of a project, such as site selection and development, conceptual and feasibility studies, preliminary and final design, construction, and performance/monitoring studies.

Ayub received his Bachelors degree in civil engineering from the Bangladesh University of Engineering and Technology in 1962, followed by Masters and Doctorate degrees from Carnegie Mellon University in 1965 and 1968 respectively. He has been active in our Section’s Reading Branch for many years as well as our Section’s Delaware Valley Geo-Institute. He and his wife, Najma, live in Reading. They have two adult daughters and two grandchildren.

TRANSPORTATION ENGINEER OF THE YEAR*Joseph Roth*

Jay, as he is better known, is the Director of Projects, Pennsylvania Highway/Bridge, for Jacobs at the firm's office in Center City. He has been with the firm and its predecessor companies for over 20 years and has risen through the ranks from Project Engineer to his current position. He is responsible for the management and direction of highway and transportation projects in our region as well as business development and project delivery. He has shepherded one of our region's most critical and long-term projects, the Pennsylvania Turnpike I-95 interchange, through much of his career, with the first segment becoming a reality and opening to traffic last fall. He has also directed significant local efforts on the Pennsylvania Turnpike all-electronic toll collection program and the I-76 Integrated Corridor Management Program.

Jay earned his Bachelors degree in Civil Engineering from Drexel University in 1990. He is a member of the American Society of Highway Engineers and the American Council of Engineering Companies in addition to our Section. He and his wife, Barbara, have three adult children, one of whom is following in his footsteps in a Civil Engineering career. They live in Holland.

STRUCTURAL ENGINEER OF THE YEAR*D. Kirk Harman*

Kirk is the President and Managing Principal of the Harman Group, which he co-founded in 1984. He directs the activities of the firm's staff in the design of structures that provide solutions, realize visions and create better communities. He works closely with architects and owners to accomplish these goals in his firm's designs with a focus on large-scale mixed-use buildings. Over the lifespan of the firm, he has directed several notable efforts which include the Ocean Resort Casino in Atlantic City, the Gaylord National Harbor Resort and Convention Center in Maryland, and the 3601 Market Street residential/mixed use tower in University City.

Kirk received his Bachelors degree in civil engineering from Lafayette College in 1977 and a Masters degree in structural engineering from Drexel University in 1980. He holds professional registration in over 30 jurisdictions and is certified by the Structural Engineers Certification Board. His commitment to the industry is exemplified by his involvement and participation in numerous technical and industry organizations. He is a fellow of the American Concrete Institute and a member of the American Institute of Steel Construction and the Delaware Valley Association of Structural Engineers. He participates in committees and boards of several other professional societies and organizations in addition to his membership in our Section. He and his wife, Sandy, live in West Chester.

ENVIRONMENTAL AND WATER RESOURCES ENGINEER OF THE YEAR*Michael DeVuono*

Mike is a Project Manager with Arcadis at its office in Center City, where he assists both private and public sector clients in the design and implementation of sustainable stormwater practices, low-impact development and green infrastructure. He has over 20 years of experience in the Civil Engineering and Land Development Industry. He provides technical oversight for the design of the Green Stormwater Infrastructure efforts in conjunction with the Philadelphia Water Department program for Green City Clean Waters and has assisted similar programs for resiliency programs across the country.

Mike received his Bachelors degree in Geography from West Chester University with a subsequent Masters degree in Civil Engineering from the New Jersey Institute of Technology. He is an active member of the ACE Mentoring program, the US Green Building Council and the Water Environmental Association in addition to our Section. He served as the champion for the stormwater component of the PA Report Card, which was released last fall. He was inducted as a Section Director for a two-year term at this event. He, his wife, Lorie, and their three children reside in Roxborough.

COMMUNITY OUTREACH AND SERVICE AWARD*Assunta Daprano**Caroline Voigtsberger*

There were two nominees for our Community Outreach and Service Award this year.

Assunta Daprano is a transportation engineer with AECOM at its office in Center City where she specializes in the Design and Engineering of freight rail infrastructure and facilities. She has been with AECOM for the past 5 years, including service as a co-op student. She received her Bachelors degree in Civil Engineering from Drexel University in 2016 and is working toward a Masters degree and professional certification in Railway Engineering at the University of Delaware with an anticipated completion next year. She is an active member of the Women's Transportation Seminar and the Engineers' Club of Philadelphia in addition to ASCE. She resides in Secane.

Caroline Voigtsberger is with NV5 at its office in Center City, where she has been an engineer for the past year. She is involved in the design of green infrastructure elements and systems, urban drainage studies, and public and private redevelopment efforts. She received her Bachelors degree in Civil Engineering with an Environmental Engineering concentration from Temple University in 2016. She lives in Northern Liberties.

Assunta and Caroline have served as co-chairs of the **K-12 Outreach Committee of our Younger Member Forum**. Under their direction, the Committee has scheduled numerous visits to local elementary and secondary schools in our region to present to and talk with students about the Civil Engineering profession. They provide hands-on activities and assignments to advise the students what Engineering entails to introduce them to our field and show them what they may need to know if they are considering Engineering as a career choice.

OTHER AWARDS

Our **Presidential Award** had two "takers" this year, with Past Section President *Cathy Farrell* and Assistant Secretary *Cricket Slattery* honored for their hard work and diligence in the production and release of the PA Report Card update. (And in last year's article, we managed to miss citing incoming President-Elect *Jen Reigle* receiving this award in 2018 for her efforts in the shepherding and movement of our *Centennial Book*... Sorry, Jen.)

In the National Awards category, these awards, presented in separate ceremonies, were noted:

Eastern Regional Younger Members Committee (ERYMC) Outstanding Young Civil Engineer in the Public Sector –
Katrina Lawrence, McCormick Taylor

ERYMC Outstanding Younger Member in Government Relations –
Joseph Natale, DVRPC

ERYMC Outstanding Practitioner Advisor –
Scott Cepietz, Michael Baker International

ERYMC Outstanding Younger Member Group Project –
YMF Habitat for Humanity Build Day

Thanks to...

Special thanks are extended to those who helped make the Spring Social a success once again this year. This includes the Spring Social Program Committee (chair **Troy Illig, Briana Earle, Kazi Hassan, AnnMarie Vigilante, Jenn Walsh, Jeanien Wilson and Bob Wright**), the Awards audio narrators, who once again stayed inside on a nice spring evening to donate their voices to the effort (**Mohamed Elghawy, Cathy Farrell, Carol Martsoff, Jen Reigle and Bob Wright**), and the Awards Committee (chair **Bob Wright, Carol Martsoff, Allan Moore and Joe Natale**).

Planning for the 2020 Spring Social will begin later this season, so no date has been set as of this writing. Details will be provided as they develop and will be provided in upcoming editions of *THE NEWS*.

An Engineer is someone who is good with figures, but doesn't have the personality of an accountant.

– Anonymous (likely not an Engineer)

SECTION COMMITTEES

Our Section runs very well and it is mainly a result of the dedication and service of our many volunteers, both our Officers and Board Members as well as our various Committees. While many of you know the former group well, you may not be all that aware of the latter. Our Committees address many of our regular and ongoing issues and keep our Section vibrant and in the forefront of service to our membership. A list of our current Committees is provided below. We would like to thank all those involved for their contributions and diligence in helping our Section do what it does.

Additionally, if you have a particular interest in helping the Section as a Committee volunteer, please reach out to us at info@asce-philly.org or through our Section Secretary, **Mohamed Elghawry**, whose contact information is provided on page 2. Committee assignments may change throughout the season and we will keep you posted as this occurs.

ASCE Philadelphia Report Card Promotion
Audit
Awards
Budget and Finance
Capital Improvement
Civil Engineers in Government
College Scholarship
Communications
Continuing Education
Humphrey Fund
Membership
Mural
Nominating (for Board Positions)
Professional Licensure
Program
Society Relations
Subsidiary Groups
Spring Social

Our Technical Groups, part of our Subsidiary Group, and the Group chairs are as follows:

Construction Management –
Dennis MacBride (dmacbride@septa.org)
Delaware Valley GeoInstitute –
Russ Preuss (rpreuss@gfnet.com)
Environmental and Water Resources –
Eric Lindhult (eric.lindhult@gmail.com)
Structural Engineering Institute –
Dan Kucz (dkucz@hntb.com)
Transportation & Urban Development –
Bill Thomsen
(wthomsen@urbanengineers.com)
Younger Member Forum –
Jesse Gormley (jgormley@pennoni.com)

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N-ASCE

Continued from Page 2

fresh off of finishing the New York Marathon, her first, in less than three hours. Her finish in New York qualified her for the Boston Marathon.

According to the *Washington Post*, New York Marathon officials disqualified her finish there after determining that she rode the subway for 16 miles of the course after she injured her ankle. That was four days after the Boston Marathon. Shortly after the New York Marathon decision, Boston Marathon officials followed suit, stripping her of her title after they determined she had run only the final half mile of the 26.2-mile course. She jumped into the final stretch of the race to finish ahead of Jacqueline Gareau, whose



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course record (2:34:28) would not be recognized until days later when Ruiz was disqualified.

Ruiz drew suspicion when she seemed clueless about common marathon jargon in a post-race interview. Other runners said that they hadn't seen her on the course, and her bib number was not recorded at numerous race checkpoints. She was alleged to have taken the subway and joined the race in its final stage. Although she maintained publicly throughout her life that she ran the race in its entirety, a friend noted that she had admitted her ruse to him, but that she didn't intend to be the first woman to cross the finish line.

*N-ASCE – Not always something concerning Engineering...