

SECTION MEETING SCHEDULE 2018-19 – WINDING DOWN...

Hard to believe, and time indeed flies... The last two Section meetings of this season are upon us and information on each is provided under separate headings for these announcements. There is one remaining Section event in our “look-ahead” schedule, the **Spring Social**. Decisions are still being finalized and more information will be provided in the April edition of *THE NEWS*.

BEANNACHTAÍ NA FÉILE PÁDRAIG!*

It doesn't seem like it should be that time already again, but the “great day for the Irish”, as the song goes, will be here shortly. And, to cite that great day, we at THE NEWS have provided our annual “Lightly Amusing Message from Eire” (also known as LAME) for your enjoyment for St. Pat's Day.

As you may recall, given the lack of response to contests for this and our Lightly Amusing Yuletide Message (LAYM) for the Christmas season, the staff of *THE NEWS* made an executive decision to no longer conduct such efforts. The consequence of this action is that we are forced to hand the creative pen to your Editor to come up with something. And this is something that always sends a little shiver up our spines, as we never really know where he's going to go with that.

And it appears he put his otherwise-idle time spent on trains or with “inspiration” (i.e. beer) close by to crank out the message below. Unlike last year (and the year before, since last year's was a rerun of the previous one), there is no need for your handy-dandy Gaelic-English dictionary. We hope you enjoy this year's LAME.

A green speck in the ocean
The fabled Emerald Isle
The place many look back to
With a smile
Though many of us
Trace roots to that place
And some say we wear
Its map on our face

We may have never been
On the old sod

Continued on Page 3

MARCH DINNER MEETING THURSDAY, MARCH 14, 2019

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

SUBJECT: Walt Whitman Bridge: Painting Suspension Span and Tower Project

SPEAKERS: Michael Venuto, Chief Engineer, Delaware River Port Authority (DRPA) and
Steven Bisch, Project Manager, JMT

RESERVATION DEADLINE – MONDAY, MARCH 11. 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 or by check. This option will NOT be available after the reservation deadline. Checks, 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 commitments with our 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.

THERE IS NO GUARANTEE THAT SPACE WILL BE AVAILABLE IF YOU DO NOT RESERVE A SPACE. Walk-ins and anyone without a reservation will be handled on a space-available basis.

Continued on Page 2

APRIL DINNER MEETING THURSDAY, APRIL 18, 2019

The Inn at Villanova, (formerly the Villanova Conference Center), County Line Road, Radnor, PA
Cocktails 5:30 PM, Dinner 6:30 PM, Meeting 7:30 PM

Following the pattern established nine years ago, this meeting will consist of a dinner with subsequent “breakout” sessions on three separate topics. More information will be provided in the April edition of *THE NEWS*.

SCIENCE FAIRS COMING UP — LOOKING FOR JUDGES

As we have for many years, our Section will be offering Special Awards at the **Delaware Valley Science Fairs**. The Fairs will be conducted on **Wednesday, April 3** at the **Greater Philadelphia Expo Center** in Oaks. Four Special Awards for individual student projects that have a Civil Engineering theme will be awarded, with two prizes for Grades 6 through 8 and two for Grades 9 through 12.

Volunteer judges are needed for this effort. The judging will require you to spend most, if not all, of

your day (approximately 8 AM to 3 PM) at the Fairs, examining and short listing possible projects in the morning and then interviewing the students who assembled them and finalizing the selections in the afternoon. It is always a very interesting and enlightening experience.

If you are interested in being a Special Awards judge please contact **Chris Rood** at crood@drjtbc.org. You will also need to register for this and this can be done through the Fairs' website www.dvsf.org.



PRESIDENT'S MESSAGE

The **Engineers Club of Philadelphia** and the **Delaware Valley Engineers Week Committee** outdid themselves this year and are to be commended for organizing an outstanding, informative, and above all inspirational Opening Ceremony on the evening of February 14th at the DoubleTree Philadelphia Hotel. The format was shaken up a bit from prior years as the kick-off was moved to an evening event from its normal early afternoon timeslot.

As the representative of our Society, I, along with **Jennifer Reigle** (Section Treasurer and contributor to the Bridge section of the Report Card), had the opportunity to share the findings and message of our 2018 Pennsylvania Report Card (PARC) on Infrastructure. Dozens of attendees stopped by our PARC station and engaged in dialogue on many of the 18 PARC categories. I was particularly impressed by the students who weighed in on the discussion and provided their input and perspective on the issues highlighted in the PARC. And this was just in the first networking hour.....

From there I moved into the main dining and ceremony room and had the good fortune of choosing a table with two scholarship/student paper award winners from Widener University. **Megan Cullison** was the recipient of the Pennoni/John Morrison Memorial Scholarship and **Joel Given** was the recipient of the DVEW/ASCE Undergraduate Scholarship and also recognized for his student paper on Maximum Shear Modulus of Coarse Grained Soil Mixtures (maybe not as brow-raising as converting brewery/winery wastes into biofuels, but impressive in its own right). It was great talking to these two students, but what hit home with me the most was talking with their respective parents and seeing the pure joy and pride on their faces. Congrats to Megan and Joel and the entire slate of student award winners and their families.

I know many of you were there, but if you weren't, you missed out on a treat provided by the Emcee, **Bob Wright**, the Keynote Speaker, WHY?y's **Ed Cunningham**, and this year's Young Engineer and Engineer of the Year, **Eleanor F. Small, PhD** and Section Life Member **John J. Peirce, Jr., PE**. Bob commanded the night with his wit and uncanny ability to make otherwise mundane moments into audience-wide smiles and laughter. Ed brought a unique perspective on how Engineering is woven into the fabric of our City; from stories of Connie Mack Stadium, to the former Broad Street Station at City Hall, to spaces unknown beneath our feet and some in plain sight (Ben Franklin Bridge Anchorages). The night ended with Eleanor and John each providing inspirational speeches focusing on their passion for the Engineering profession and the importance of mentoring and igniting the fire in our younger and aspiring Engineers.

Yes it was Valentine's night, and I went stag, but the inspiration and stories I was able to bring back to my wife and family truly showed my LOVE for Engineering and those that make it their mission to keep it in the forefront. **Happy Delaware Valley Engineers Week!**

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

MARCH MEETING

Continued from Page 1

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 to learn about Walt Whitman Bridge (WWB) Painting Suspension Span & Tower project. You will get to hear different perspective from the Owners, Designers and Construction Managers. The project was performed in a collaborative manner and JMT led the effort to ensure quality work was delivered. The project was completed on-budget, and on-time. Work included the full blasting and painting of towers and suspension spans and structural repairs throughout. The entire structure received a 3-coat paint system consisting of zinc prime coat, intermediate coat and a final coat of urethane paint.

Mr. Venuto is the Chief Engineer for the Delaware River Port Authority, the owner and operator of the Walt Whitman Bridge as well as three other major Delaware River crossings and the Port Authority Transit Corporation (PATCO). Mr. Bisch is a Project Manager with JMT.

THANKS TO OUR SPONSORS

We thank those firms who have made the financial commitment to Section Sponsorship for this season. The business cards of these 15 firms are included in the sponsor section of *THE NEWS*. Sponsor logos are also displayed in a special Sponsors section of our website. Through a click on the particular sponsor's logo, we provide direct links to its own website so prospective employees can review all available and up-to-date positions being offered by that firm. Sponsors can additionally provide a profile article in *THE NEWS* (see one of these elsewhere in this edition).

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

ASCE, PHILADELPHIA SECTION OFFICERS AND BOARD OF DIRECTION—2018-19 SEASON

PRESIDENT

Angelo Waters, Urban Engineers, Inc.

PRESIDENT ELECT

Kazi M. Hassan, Pennoni Associates, Inc.

VICE PRESIDENT

Troy Illig, WSP

SECRETARY

Briana Earle, Langan Engineering & Environmental Services

ASSISTANT SECRETARY

Caroline "Cricket" Slattery, Advantage Engineers

TREASURER

Jennifer Reigle, Pennoni Associates, Inc.

ASSISTANT TREASURER

Joseph Natale, DVRPC

MEMBERSHIP SECRETARY

Mohamed Elghawy, Traffic Planning & Design, Inc.

DIRECTORS

Andrew Bechtel, College of New Jersey, 2017-19
Kevin Brown, Vaughan Buckley Construction, 2017-19
Spencer Finch, Langan Engineering & Environmental Sciences, 2018-20
Joseph Natale, DVRPC, 2018-20
Nha Truong, Ernst & Young, 2018-20
Jeanien Wilson, Phila. Dept. of Streets, 2017-19

PAST PRESIDENTS*

Cathy Farrell, HNTB
Guy DiMartino, Traffic Planning & Design, Inc.
AnnMarie L. Vigilante, Langan Engineering & Environmental Sciences

** 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.

President—Angelo J. Waters, PE

Vice President
Urban Engineers Inc.
530 Walnut Street
Philadelphia, PA 19106
215-922-8081 x1273
ajwaters@urbanengineers.com

Secretary—Briana Earle, PE

Senior Staff Engineer
Langan Engineering and Environmental Services
PO Box 1569
Doylestown, PA 18901-0219
(215) 451-6500
bearle@langan.com

PUBLICATIONS COMMITTEE

Editor of THE NEWS

Robert Wright

Editorial Assistants

Lindsay Chateauvert, Assunta Daprano

Section Outreach Coordinator

Briana Earle

SEND COPY TO:

ASCE, c/o Urban Engineers, Inc.
530 Walnut Street, Philadelphia, PA 19106

**COPY DEADLINE FOR
APRIL 2019 ISSUE
MARCH 15, 2019**

YOUNGER MEMBER FORUM NEWS

Sean McCreesh, Forum Editor
 Eammon Farley, Forum President 2018-19
 Michael Baker International
 eammon.farley@mbakerintl.com

EASTERN REGIONAL YOUNGER MEMBER COUNCIL

JANUARY 25-26

YMF sent nine members of its Board, as well as one Past President, to this year's Eastern Regional Younger Member Council (ERYMC) at the Multi-Region Leadership Conference (MRLC) in Orlando, FL. This contingent included Eammon Farley, Katrina Lawrence, Dennis Wilson, Joe Natale, Nick Kirn, John Doyle, Lindsay Chateauvert, Kirsten Brown, Jesse Gormley (who also served as a representative and presenter for the Committee on Younger Members), and Past President Kevin Brown (who also served as a representative and presenter for the Committee on Student Members at the Workshop for Student Chapter Leaders).

The conference was a great experience and included breakout sessions, keynote speakers, technical presentations, and multiple networking opportunities. During the annual ERYMC Awards Banquet, YMF won a total of four awards, including **Outstanding Younger Member Group Project** for its Habitat for Humanity event, **Outstanding Younger Member in Government Relations (Joe Natale)**, **Outstanding Young Civil Engineer in the Public Sector (Katrina Lawrence)**, and **Outstanding Practitioner Advisor (Scott Cepietz)**. As the host for ERYMC in 2020, Philadelphia will be responsible to lead the annual ERYMC Business Meeting, held during the conference; Joe Natale and Kevin Brown acted as the meeting Chair and Secretary, respectively. The Council voted to pass two important resolutions that will benefit younger members in the future, one of which was drafted by YMF members.

PRESENTATION BVM SCHOOL

JANUARY 29



YMF continued its K-12 outreach for the 2018-19 school year with a visit to Presentation BVM School in Cheltenham. K-12 Outreach Chair Assunta Daprano was joined by volunteers Danielle Schroeder, and alumnus of BVM, and Brian Farina. The volunteers presented to 3rd, 4th and 5th grade classes and discussed the path to Civil Engineering and the various sub-disciplines. The students then constructed mobile cars out of lifesavers, straws, tape and paper. Upon completion, the students raced against each other. The 3rd grade class, shown in the photo,

proved to be the victor. A big thank you to the Presentation BVM School and Joan Schroeder for hosting us and all the volunteers for participating. If you are interested in volunteering at similar events, please contact YMF K-12 outreach at ASCEPhilaYMFK12@gmail.com to get on our volunteer list!

STEPPINGSTONE SCHOLARS

FEBRUARY 2

YMF continued its K-12 outreach efforts with a visit to Steppingstone Scholars in North Philadelphia. Volunteers Caroline Voigtsberger, Brett Cutler, Eglia Qori, Kaitlin Vacca, Clay Sublett, Charlie Mumford, Joe Natale, and Jake Sheridan met with nearly 100 students in 5th through 8th grade to participate in a variety of hands-on Engineering activities. Students learned about structures while building towers out of a deck of cards, Environmental Engineering while cleaning up a miniature oil spill, and teamwork and design while building foil boats and wind powered cars. A big thank you to Steppingstone Scholars for hosting us and all the volunteers for participating. If you are interested in volunteering at similar events, please contact YMF K-12 outreach at ASCEPhilaYMFK12@gmail.com to get on our volunteer list!



YMF WINTER SOCIAL

FEBRUARY 4

YMF once again hosted the annual Winter Social at McGillin's Olde Ale House. In its more than 20th year, the event was another great success with over 170 local, Young Engineers (including some young at heart) in attendance for a night of networking, food, drink, and fun.



As part of the event, the YMF also held its annual charity raffle. Fueled by donations from over 30 local Engineering companies, the raffle raised more than \$4,000 to benefit local non-profit organizations and STEM initiatives, such as the Future City competition, Friends of the Wissahickon, and Life Do Grow farm, among others.

The YMF would like to extend its sincerest thanks to all of our donors for their continued support, as well as to everyone who came out to the event and support the YMF in other ways throughout the year. We could not do it without you!

BEANNACHTAÍ NA FÉILE PÁDRAIG!

Continued from Page 1

But say its name
 And we'll still nod
 And think of those
 Who left things behind
 For a better place
 Which wasn't always kind

But on Saint Pat's feast
 We'll raise a toast
 To those who sailed
 From its fields and coast
 We remember those
 Who left unwilling
 For a better life
 Maybe more fulfilling

And our ancestors would
 Be proud to know
 That their successors helped
 Make their new country grow
 That the risk they took
 To pull up stakes
 And move to a land
 Where no one had driven out the snakes

On March 17 we salute
 Those no longer here
 In true Irish fashion
 We'll raise up our beer
 And look at we've done
 The time we've been here
 As we hold the old sod
 Very close and very dear.

Complaints and outrages can be registered at our website (*keep in mind your Editor can get away with this, given his allegedly mainly-Irish heritage*).

And...

*Beannachtaí na Féile Pádraig! (ban ochth' thee na fay'le paw' drig) – **Happy St. Patrick's Day!**

I ON INFRASTRUCTURE

DENVER'S TALL BUILDINGS PARTLY TO BLAME FOR A-LINE, G-LINE PROBLEMS, RTD TELLS FEDS

Denver's recent runaway growth, with high rises going up at a record pace, is one of the main culprits in its Regional Transportation District's ongoing issues with the metro area's commuter rail network. In an action plan submitted to federal regulators in December, it was noted that Denver's rising skyline around Union Station regularly blocks GPS signals the system relies on to keep the A-Line, another commuter rail route, running smoothly and safely. A software patch for that issue is coming soon, along with solutions to other factors in the crossing gate problems, according to the plan.

RTD says it is ready to open the long-delayed G-Line, another commuter rail route, to Denver's western suburbs in the first quarter of 2019 if the Federal Railroad Administration accepts its action plan. In this plan, RTD asked that the feds grant the

Continued on Page 4

FEBRUARY LUNCHEON MEETING

February 21, 2019

Urban Engineers, Center City

Ethics – Panel Discussion

by Robert Wright, Editor

For our February meeting we switched things up slightly, going with a luncheon format instead of our usual dinner. About 40 Section members (and this was a members-only event, another change from the usual) came to the training center at Urban Engineers in Center City to participate in a panel discussion of ethics over a nice lunch. The panel was moderated by Past Section President **Bob Wright**, a Project Manager at McMahon Associates, and consisted of representatives of the public and private sectors as well as an attorney. **Elaine Elbich**, I-95 Program/Portfolio Manager at PennDOT District 6 carried the public agency “torch”. **Matt Marquardt**, Senior Vice President of Urban Engineers, handled the private sector perspective. **Mike Zettlemoyer** of BN&M Attorneys at Law, who is a practicing Attorney as well as an Engineer, kept things on the proverbial straight and narrow and offered the legal view of things.

Section President **Angelo Waters** welcomed

everyone to the meeting and started things off with introductions. Mr. Wright gave an overview of ethics and asked the attendees to participate in an online poll of what word they might associate with ethics, with a resulting “menti” word cloud developed to show the most popular outcomes of this exercise. The panel reviewed a number of topics and offered their respective views and perspectives on several examples and case studies that were presented. It was noted several times that ethics often could create a dilemma as the clear-cut decision on what is right and what is wrong is often not that clear-cut. Bringing in the varied and extensive background and knowledge of the panelists, a handful of situations were reviewed in which the panelists responded as to “what would you do” and what the expected outcome and possible repercussions might be.

A lively question and answer session ensued.

President Waters thanked the panel for its efforts and closed the meeting.

ANOTHER SUCCESSFUL ENGINEERS WEEK

We hope you participated in Engineers Week this year. In case you missed it, it was celebrated locally from Thursday, February 14 (also known to some as Valentine’s Day) through Saturday, February 23. While nationally it is observed starting on February 16, locally we extended it two days to work for our events.

The Delaware Valley Engineers Week Committee (DVEWC) events were popular and successful, as usual. These included two main celebrations this time around as something different was tried — the Opening Ceremony/Dinner, to kick off E Week, was held at the DoubleTree Philadelphia Hotel on February 14. Section Member **John Peirce** was formally introduced as the **2019 Delaware Valley Engineer of the Year** at the Ceremony, which drew over 170 attendees. Section Member **Leo Leonetti** was additionally honored with the Outstanding Service to Engineering Award at this

event. The Young Engineers Social, conducted at Ladder 15 in Center City on February 19, was similarly well attended with over 60 participants.

As we know, the completion of this year’s events only kicks off the planning for next year’s. DVEWC, a committee of the Engineers’ Club of Philadelphia, is always in need of volunteers to assist in many of the activities surrounding Engineers Week. DVEWC has a need for your talents and skills in several diverse areas. If you are interested in volunteering or would like information on volunteer opportunities, please visit our website at www.dvewc.org.

Congratulations to our Engineer of the Year, **John Peirce**, as well as the **2019 Young Delaware Valley Engineer of the Year, Eleanor Small!**

More information on the award recipients and student prize/scholarships awarded is available at www.engrclub.org.

I ON INFRASTRUCTURE

Continued from Page 3

G-Line the same waiver to operate that two other lines received more than two years ago. The G-Line was originally supposed to open in October 2016. “Further delay in opening the G-Line would be an undue burden to the public and other community stakeholders,” RTD noted to the FRA.

RTD officials also asked the FRA to “expedite its review and decisions” about granting quiet zone status at crossings on all three lines, a designation that would allow trains to no longer have to blow their horns dozens of times a day. But first, RTD acknowledged that it has work to do at the 11 at-grade crossings on the A-Line and the 16 crossings on the G-Line. The problem centers on a novel wireless signaling system that can keep gates in the closed position too long.

RTD also spoke to the need to reduce “PTC cut outs,” which occurs when the GPS signal for positive train control is lost. It said the number of high rises built near Union Station “has impacted reception of GPS signal in the platform area” and that it takes two minutes to reconnect with the GPS signal once the cut out occurs. The solution to the cut outs, RTD said, is coming shortly with a software upgrade provided by one of its subcontractors.

The metro area’s new commuter rail system carried its first passengers with the opening of the A-Line between Union Station and Denver International Airport in April 2016. The B-Line, a 6.2-mile spur to Westminster, opened a few months later. But progress on the G-Line stalled out as problems with the timing of the A-Line’s

N-ASCE*

WHY SMART PEOPLE NEVER BRING SMARTPHONES INTO MEETINGS

You are annoying your boss and colleagues any time you take your phone out during meetings, says research from USC’s Marshall School of Business, and if you work with women and people over forty they’re even more perturbed by it than everyone else.

The researchers conducted a nationwide survey of 554 full-time working professionals earning above \$30K and working in companies with at least 50 employees. They asked a variety of questions about smartphone use during meetings and found:

- 86% think it’s inappropriate to answer phone calls during meetings
- 84% think it’s inappropriate to write texts or emails during meetings
- 66% think it’s inappropriate to write texts or emails even during lunches offsite
- The more money people make the less they approve of smartphone use.

The study also found that Millennials are three times more likely than those over 40 to think that smartphone use during meetings is okay, which is ironic considering Millennials are highly dependent upon the opinions of their older colleagues for career advancement.

TalentSmart has tested the emotional intelligence of more than a million people worldwide and found that Millennials have the lowest self-awareness in the workplace, making them unlikely to see that their smartphone use in meetings is harming their careers.

Why do so many people—especially successful people—find smartphone use in meetings to be inappropriate? When you take out your phone it shows a:

- Lack of respect. You consider the information on your phone to be more important than the conversation at hand, and you view people outside of the meeting to be more important than those sitting right in front of you.
- Lack of attention. You are unable to stay focused on one thing at a time.
- Lack of listening. You aren’t practicing active listening, so no one around you feels heard.
- Lack of power. You are like a modern-day Pavlovian dog who responds to the whims of others through the buzz of your phone.
- Lack of self-awareness: You don’t understand how ridiculous your behavior looks to other people.
- Lack of social awareness: You don’t understand how your behavior affects those around you.

It’s important to be clear with what you expect of others. If sharing this article with your team doesn’t end smartphone use in meetings, take a page out of the Old West and put a basket by the conference room door with an image of a smart phone and the message, “Leave your guns at the door.”

Thanks to *TalentSmart* for this information.

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

Continued on Page 6

SPONSORS IN THE NEWS

TPD CELEBRATES MILESTONE ANNIVERSARY: 30 YEARS IN BUSINESS



Traffic Planning and Design, Inc. (TPD), an award-winning transportation engineering firm serving the eastern United States, is pleased to announce its 30th anniversary in business. Founded in April 1989 in a remodeled three-story colonial house located in Oaks, TPD began with six employees, and over the last 30 years has grown into 10 strategically located offices throughout Pennsylvania, New Jersey, Maryland and North Carolina. TPD's priority on organic, sustainable company growth has enabled the firm to develop and maintain its staff of highly-qualified professionals whose contribution to infrastructure, workforce, and economic development has earned the firm merit on local, regional and national levels.

One of TPD's most prestigious accomplishments to date is the firm's continuous recognition as a nationally-ranked **Best Place To Work**. TPD has consistently ranked among the Best Civil Engineering Firms To Work For in the U.S. (#17 in 2018, Zweig Group), as well as among engineering partners and competitors as an outstanding firm by business journals, the *National Committee for Employer Support of the Guard and Reserve* (ESGR) for the support of our troops, and by local organizations for efforts in sustainability, professional development and other achievements. This year is the firm's fourth appearance on Inc. magazine's Inc. 5,000 List of the **Fastest-Growing Private Companies in America**.

Over the past few years, TPD President and founder, **Kevin Johnson, PE**, has dedicated himself to advancing the state of the industry for

Transportation Engineers and their partners and clients. Working to maintain the safety and capacity of local transportation infrastructure is TPD's primary focus and every member of the organization contributes to this cause. As such, TPD takes pride in the infrastructure improvements the firm has planned, designed, and inspected throughout its history which benefit local residents and economies by creating solutions for modern transportation needs.

Through the years, TPD has prioritized work-life balance for its staff. The firm's ever-evolving flexibility and family-friendly policies have been essential in cultivating an atmosphere in which employees can thrive professionally without sacrificing essential personal or family obligations, which, in turn, has produced retention rates in the upper 10% of all Engineering firms.

The firm operates out of Pennsylvania offices in Pottstown, Philadelphia, West Chester, Bethlehem, Doylestown, Harrisburg, and Pittsburgh, a New Jersey office on the Camden Waterfront, a Maryland office in Elkton, and a North Carolina office in Asheville. TPD's team of professionals specialize in Transportation Planning & Permitting; Multimodal, Complete Streets & Trail Design; Bridge Design & Inspection; Traffic Signal & System Design; Environmental Services & Permitting; Construction Management & Inspection; Highway Design; Transportation Systems Management & Operations; and Expert Witness Support for Crash Investigations for a diverse range of clients in both the public and private sectors.

PARC CATEGORY OF THE MONTH: STORMWATER

Our recently-released Pennsylvania Report Card (PARC) assessed and graded 18 categories of infrastructure. We will provide a summary of one category each edition in upcoming issues of *THE NEWS*. Up this month, stormwater.



STORMWATER

Direct Stormwater Runoff Pollution Mostly to Blame for a Whopping 19,000 Miles of Our Rivers and Streams Designated as "Impaired" by PADEP in 2016.

EXECUTIVE SUMMARY: While generally performing adequately for higher-frequency lower-intensity rainfall events, the age of much of Pennsylvania's stormwater infrastructure exceeds 100 years, and needs on-going repairs, replacement, and capacity upgrades. There is also a lack of easily accessible critical information relating to the size, condition, capacity, and capital needs of all public and privately-owned stormwater assets. Sources of funding for these much-needed improvements are not consistently available for municipalities across the Commonwealth. The Pennsylvania Municipal Authorities Act was amended in 2013 by Act 68 to permit the creation of stormwater authorities, and Act 62 was signed into law in June 2016 authorizing second class townships to create stormwater utilities. Several other legislative bills are currently in the Pennsylvania Senate, and if enacted, will further empower local governments to apply a stormwater use-based revenue system to fund the operation, maintenance and upgrades of stormwater assets.

COMPELLING STATISTIC: Approximately 19,000 miles of rivers and streams were designated by the PADEP in 2016, as impaired for water supply, aquatic life, recreation, or fish consumption, with stormwater runoff pollution estimated to be one of the major contributors to this impairment.

Please visit www.pareportcard.org for more information on this and how you can inform your elected officials on actions that should be considered to address this.

Irish Blessings —
May your pockets be heavy
and your heart be light,
may good luck pursue you
each morning and night.

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.

PUTTING DRONES TO WORK FOR YOU							
	<ul style="list-style-type: none"> • AERIAL DRONE MAP DATA CAPTURE • SITE PROGRESS MONITORING • VOLUME DATA ACQUISITION • TIMELAPSE MARKETING VIDEOS 						
	CONTACT US TO SETUP A FREE DEMO						
	<table border="0"> <tr> <td>✓ FAA LICENSED</td> <td>WEB WWW.ARGOSUAS.COM</td> </tr> <tr> <td>✓ FULLY INSURED</td> <td>EMAIL INFO@ARGOSUAS.COM</td> </tr> <tr> <td>✓ RTK EQUIPPED</td> <td>OFFICE 717.827.6222</td> </tr> </table>	✓ FAA LICENSED	WEB WWW.ARGOSUAS.COM	✓ FULLY INSURED	EMAIL INFO@ARGOSUAS.COM	✓ RTK EQUIPPED	OFFICE 717.827.6222
	✓ FAA LICENSED	WEB WWW.ARGOSUAS.COM					
✓ FULLY INSURED	EMAIL INFO@ARGOSUAS.COM						
✓ RTK EQUIPPED	OFFICE 717.827.6222						

SECTION COMMITTEES

Our current Committees and chairs are provided below. If you have an interest in helping and/or 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).

ASCE PA Report Card Promotion –

Cricket Slattery

Audit – Kazi Hassan

Awards (includes Engineers Week Hall of Fame Recognition) – Bob Wright

Budget and Finance – Jen Reigle

Civil Engineers in Government – Jeanien Wilson

College Scholarship – Andrew Bechtel

Communications (includes E-mail Outreach, Newsletter, Sponsorship, Website) – Briana Earle

Continuing Education – Angelo Waters

Humphrey Fund – John Zarsky

Membership – Mohammed Elghawy

Mural – Angelo Waters

Nominating (for Board Positions) – Cathy Farrell

Program (includes Meeting Check-in/Name Tags and Venue Coordination) – Angelo Waters

Society Relations (includes Legislative Affairs, PA Council and Region 2) – Cathy Farrell

Subsidiary Groups (includes Technical Groups/Institutes and Younger Member Forum) – Kazi Hassan

Spring Social – Troy Illig

I ON INFRASTRUCTURE

Continued from Page 4

crossing gates started becoming evident and federal regulators insisted they be fixed before any more commuter rail lines using identical signaling technology went online in the metro area.

The troubles with the gates have resulted in millions of dollars being spent on crossing-gate attendants to provide an extra layer of safety and have prevented quiet zones from being established. Noise complaints have been one of the most nettlesome issues RTD has had to confront, with trackside residents complaining that they lose sleep and are unable to enjoy dinner on their patios. The delays have prompted a lawsuit by RTD's private-sector contractor on the project, Denver Transit Partners, against the transit agency and RTD in return threatening to end its 34-year contract with the consortium.

Arvada Mayor **Marc Williams**, who has gotten an earful from city residents tired of waiting for the G-Line to open, observed that he's feeling more optimistic that the metro area's commuter rail logjam may finally break with the submission of RTD's action plan along with a letter from several members of Colorado's congressional delegation urging a solution to the crossing-gate conundrum.

Thanks to the *Denver Post* for this information.



AERO
AGGREGATES

Ultra-Lightweight Aggregate
Made from 100% Post-Consumer Glass



Michael Baker
INTERNATIONAL

We Make a Difference

Proud to celebrate 20 years
in the Delaware Valley Region
Fort Washington • Philadelphia

MBAKERINTL.COM



CDM Smith
cdmsmith.com

listen. think. deliver.

HARRISBURG 3605 Vartan Way, Suite 202 Harrisburg, PA 17110 1.717.541.4001	WAYNE 993 Old Eagle School Road, Suite 408 Wayne, PA 19087 1.610.293.0450	PHILADELPHIA Two Penn Center Plaza, 1500 JFK Boulevard, Suite 1208 Philadelphia, PA 19102 1.215.636.0600
--	--	--



McMAHON
TRANSPORTATION ENGINEERS & ARCHITECTS

TRANSPORTATION
SOLUTIONS BUILDING
BETTER COMMUNITIES

Engineering | Planning
| Design | Technology

www.mcmahonassociates.com



STV 100 Years

1818 Market Street, Suite 1410
Philadelphia, PA 19103-3616
T: (215) 832-3500
www.stvinc.com



URBAN
ENGINEERS

urbanengineers.com
215.922.8080



VUSP

VILLANOVA URBAN STORMWATER PARTNERSHIP

www.villanova.edu/VUSP


Providing transportation
engineering and related services
across the eastern United States

Offices located in PA, NJ, MD, and NC



TPD
TRAFFIC PLANNING AND DESIGN, INC.
Moving Forward Together®

215.622.2525
www.TrafficPD.com



DREXEL UNIVERSITY
Civil, Architectural & Environmental Engineering

Part-Time and Full-Time Graduate Study
(funding available for full-time study)

Structural Engineering
Geotechnical/Geosynthetic Engineering
Architectural Engineering
Environmental Engineering

Sustainable Engineering
Hydraulics, Hydrology &
Water Resources
Air Quality

Dr. Charles Haas, F.ASCE
Head, Civil, Architectural &
Environmental Engineering
haascn@drexel.edu

Dr. Michael Ryan
Graduate Advisor
(215) 571-4779
mor23@drexel.edu

DIVERSIFIED
LIGHTING
ASSOCIATES



DLA
www.dlaltg.com
An Employee Owned Company



HNTB

The HNTB Companies
Infrastructure Solutions
www.hntb.com

Allentown | Harrisburg | King of Prussia
Philadelphia | Pittsburgh



JBC 30th ANNIVERSARY

JBC ASSOCIATES, INC.
Celebrating 30 Years of CM / CI Services
1988 - 2018
www.jbcassociates.com 610-992-9090



Pennoni

ENGINEERS, SCIENTISTS, SURVEYORS, & PLANNERS
www.pennoni.com



WSP

PARSONS
BRINCKERHOFF

- Strategic Consulting
- Planning
- Design
- Program Management
- Construction Management
- Operations & Maintenance

For career opportunities and/or information,
please visit wsp-pb.com/usa