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SECTION OFFICERS

President

Joe Eberly, P.E.
717.846.4660
jeberly@consulttrq.com

President-Elect

Gary Garbacik, P.E.

Vice President

Kerry Henneberger, P.E.

Secretary

Tim Carre, P.E.
717.783.6708
tcarre@pa.gov

Treasurer

Duke Slifko, P.E.

Newsletter Editor

Jason Taylor, P.G., E.I.T.

President's Message

If you listen, watch, or read the news, you can't escape the talk of infrastructure and especially infrastructure spending. As budgets at the state and federal level are hashed out by the politicians, infrastructure is always a talking point. As engineers and citizens, we deal with that infrastructure every single day and are in a unique position to inform others about the state of that infrastructure.



One way ASCE brings attention to the importance of infrastructure and the world around us is through the release of report cards. The new 2017 Report Card for America's Infrastructure will be released on March 9th. By now I hope you are familiar with the format of the report card and the simple school-like grade it applies to several different categories of infrastructure. The report card then further explains that letter grade with information on each category as to the current state and future needs of that specific area.

More information on infrastructure can be found on ASCE's website at <http://www.asce.org/infrastructure/>. The report card information can be found at the report card website: <http://www.infrastructurereportcard.org/>. One area to highlight from the infrastructure discussion is the ASCE gamechangers. The gamechangers are initiatives, projects, and guidelines that will change how projects are completed in the future. A local example that is getting national attention is the PennDOT P3 rapid bridge replacement project, bundling 558 bridges to be replaced in 36 months.

With the 2017 Report Card for America's Infrastructure release eminent at the national level that means the Pennsylvania State Report Card can't be far behind. The national report card is released on a 4 year cycle as is the Pennsylvania State Report Card. The PA State Report Card is released the year after the national report card. The PA State Council is currently in the beginning stages of planning for the PA State Report Card to be released in the Summer of 2018. There will be many opportunities for section members to volunteer to help with the PA State Report Card. At the section level we will be planning a release event that will need committee volunteers as well as coordinators for the day of the event. Please see the Government Relations article in this newsletter for additional information and stay tuned for more announcements concerning the PA State Report Card.

Don't forget to check out the new 2017 Report Card for America's Infrastructure on March 9th!

WELCOME NEW MEMBERS

Wesley Heisley, PE
Jeffrey Wert, PE
Yue Hua
Kevin Hejtmanek, PE
James Romano, EIT
Daniel Millard, PE
Jeffrey Rothermel, PE
Afton Simko, EIT
Darian Pompey
Rohul Dhakal, EIT
Jordan Miller, EIT
Yanbo Huang
Jonathan Sweeney, EIT
Jessica Belt, EIT
Michael Hillman, EIT
Kevin Flagg, PE
Carol Moulds, EIT
Matt Metzler
Justin Nace, EIT
Alex Gehrlein, EIT
Angela Weaver, EIT
Jacob Crist

2016 Christmas Party

Submitted by: Joe Eberly, P.E., President

On Wednesday, December 14, 2016, the Section held its annual Family Christmas Party. The event was attended by over 50 people, which included ASCE Central PA Section members, their families, and guests. A traditional Christmas dinner buffet was served, along with appetizers and a limited bar. The event was held at the Park Inn by Radisson on the Carlisle Pike in Mechanicsburg.

Attendees enjoyed an evening of socializing and catching up with fellow members and friends. The highlight of the evening was a visit from Santa himself, who stopped by with presents and treats for the kids. He even took the time to sit with each child and review his or her wish list, before moving on to his next stop.

The now annual Kid's Coloring Contest was held. Entries were separated into age groups and four Toys-R-Us gift cards were awarded to the winners. It is remarkable each year the quality of artwork that the kids create! Congratulations to all the winners!

Also again this year, attendees of the Christmas party were asked to bring a new, unwrapped toy for donating to Toys for Tots. This effort was a success with more than 20 toys being donated. Thank you to everyone who participated. The Central PA Board would also like to thank everyone who helped with the planning of and participated in the Christmas Party, as we look forward to another successful event next December!



February Dinner Meeting

Submitted by: Mike McGowan, P.E., Structural Chair



On Wednesday, February 8th, over 70 attendees gathered to listen to Dr. John Kulicki, PE who presented the "History of the AASHTO Bridge Design Specifications". Dr. Kulicki provided a history of why, how, and when bridge design specifications were developed. He explained how the earliest bridge design specifications were developed by railroad companies for their bridges in the late 1800's and by the 1920's early highway design manuals were introduced. The American Association of State Highway Officials (AASHTO) was formed in 1914 and later issued the first edition of the Standard Specifications for Highway Bridges and Incidental Structures in 1931. Dr. Kulicki provided insight on when and why live load vehicles and design philosophies evolved through the years and why the Specifications grew from 60 pages to over 1600 pages!

Dr. John M. Kulicki, PE, SE, is a highly respected leader in bridge engineering and is Chairman Emeritus and Senior Technical Advisor for Modjeski and Masters, Inc. A graduate of Lafayette College and Lehigh University, he has over 40 years of experience in virtually all aspects of bridge analysis and design. At various times in his career he was a Professional Engineer in 20 states and a member of numerous committees and organizations. His contributions and dedication to the bridge engineering community has been well recognized throughout his career which includes leading a team of experts in the

development of the AASHTO LRFD Bridge Design Specifications.

ASCE Region 2 Director's Letter - January 2017

Submitted By: John Casana, P.E., D-WRE, LEED AP, Region 2 Director

Dear Region 2 Members,
I hope each of you are having a great start to the year! Please see my perspective on Region 2, below.

At the January 12 ASCE Board of Direction meeting in Los Angeles, the Nominating Committee selected two official nominees for ASCE President-Elect - Kancheepuram N. Gunalan, Ph.D., P.E., D.GE. F.ASCE, and Robin A. Kemper, P.E., LEED AP, F.SEI, F.ASCE. This year's election will take place during June 2017.

The Board also voted to add a Technical Institute Region Director. The Board continues to explore the optimal constitution of the Board including the Region structure, alignment and Board representation. These topics are to be addressed more fully in the Board of Direction meeting scheduled for July 2017.

In conjunction with the March 2017 release of the ASCE Report Card on America's Infrastructure, ASCE's leadership is already engaging with representatives of the Trump administration and Congress Members regarding potential pathways to get infrastructure legislation for resilient and sustainable infrastructure.

After years in development, Dream Big: Engineering Our World will be shown at the Smithsonian IMAX theatre on February 15, and then throughout the nation and world. In my opinion, this initiative can bend the curve by stimulating youth to explore engineering careers. Find out where to see Dream Big.

It's going to be a very exciting 2017 and I look forward to working with all of you to make it successful!
All the best,

John

ASCE Region 2 Director's Letter - February 2017

Submitted By: John Casana, P.E., D-WRE, LEED AP, Region 2 Director

Dear Region 2 Members,
I hope each of you participated in 2017 Engineers Week events. Please see my perspectives, below.

The world release of ASCE's *Dream Big: Engineering Our World* at the Smithsonian in Washington DC made for an exceptional Engineers Week! The DiscoverE foundation adopted Dream Big as the week's official theme. Region 2 Sections, Branches and Student Chapters also hosted Engineer's week events, Some of the enthusiasm generated by the Engineer's Week events is captured [Engineers Week 2017>>](#)

Key ASCE events and dates in March include:

- Release of America's Infrastructure Report Card – March 9
- Fly-In – March 14
- OPAL – March 16
- Board of Direction Meeting – March 17

ASCE's infrastructure report card is frequently mentioned by the Administration and Congress members. The release event will serve to increase these leaders' attention on the need to find legislative solutions. I am proud to be associated with an organization that is viewed by all as a source of objective expertise. I hope to see you at the Fly-In or OPAL. My next Letter will summarize BOD meeting action. Until then.

All the best,

John

29th Central Pennsylvania Geotechnical Conference

Submitted By: Bruce Stegman, P.E.

On January 25th, 26th, and 27th, 2017 the 29th Central Pennsylvania Geotechnical Conference was held at the Hershey Lodge and Convention to record levels of attendance. The conference was attended by 485 engineers, geologists, contractors, and vendors, including 15 distinguished speakers and 75 displayers.

Speakers and Topics included: Joseph Cavey, 26th Street Emergency Retaining Wall Replacement, Baltimore, MD • Joseph Coe, Ph.D., Application of Nondestructive Testing and Geophysical Methods to Evaluate Unknown Foundation Geometry • David Elton, Ph.D., PE, A Brief History of Geotechnical Mistakes • George Filz, Ph.D., Kennedy Space Center • Arthur Hoffman, PE, D.GE., Future Geo-Business Trends • Robert Holtz, Ph.D. • Eric Klein, PE, D.GE., M. ASCE Tied-Back Micropile SOE to Support Active Rail Loads • Michael Malusis, Ph.D., PE Soil-Bentonite Cutoff Wall Instrumentation • Michael McGuire, Ph.D., PE, As-Built Verification and Condition Assessment of Mechanically Stabilized Earth (MSE) and Geosynthetic-Reinforced (GRS) Retaining Structures using 3D Point Cloud Data • Sarah Missenda, PE, East Branch Dam • Daniel Ruffing, PE, M. ASCE A Case Study: Soil Mixing for Soft Ground Improvement at a Landfill • Johanna Simon, PE A Hybrid Retaining Wall to Conquer a Massive Slope • Steve Wendland, PE, PG, DGE Impacts of Superfast Construction on Slope Stability • John Wolosick, PE Revisiting Normandy Beach - Bluff Stabilization • Joseph Zwetchkenbaum, M.S., E.I.T., A.M., ASCE Fully Softened Shear Strength of Northern Virginia Potomac Clays.

Some of the most preeminent geotechnical consultants, suppliers and contractors displayed their services including: ASCE Academy of Geo-Professionals and Geo-Institute, ACF Environmental, ADSC-IAFD, Aerix Industries, Aero Aggregates, American Pile Driving Equipment, Applied Foundation Testing, Boulder Scape, Cascade Drilling, Case Foundations, Coastal Drilling East, Concrete Jack, ConeTec, Con-Tech Systems Ltd., Compaction Grouting, D'Appolonia, The Deep Foundations Institute, DYWIDAG Systems International, Eichelbergers, Elastizell Corporation of America, Enviroscan, GAI Consultants, Gannett Fleming, Geobruigg North America GEO-BUILD, Geo-Instruments, Geokon, Geonor, Georocfor, Geo-Solutions GeoStructures, Geotechnics, Golder Associates, GRL Engineers, Hayward Baker, Hi-Tech Soil Stabilization, Innovative Geoscience Solutions, Integrated Geotechnical Solutions, Keystone Foundations, Mar-Allen, Matrix Construction Products, McCrossin Foundations, McKinney Drilling Company, Menard Group USA, Master Locators, Monotube Pile Corporation, Moretrench, Navarro & Wright, Nicholson Construction Company, PennDrill Manufacturing, Pennsylvania Drilling, Precision Drilling, PROPEX, Quantum Geophysics, REV Drill Richard Goettle, Rocscience, SAS Stressteel, Schnabel Foundation Company, SOIL VISION, Skyline Steel, Spcrete-IP Incorporated, Subsurface Constructors, Susquehanna Civil, Tensar International, TERRACON Texel, The Neel Company, The Reinforced Earth Company, TRC Engineers, Triad Metals International, TRITON ENVIRONMENTAL Underpinning & Foundation Skanska, Vibra-Tech, Wagman, and Williams Form Engineering.

Attendees at this conference earned 10 PDHs (Professional Development Hours) for attendance at the 3-day event. These PDHs are awarded in accordance with the National Council of Examiners in Engineering and Surveying (NCEES) model law and rules.

The conference was organized by: Cari Beenenga, P.E., Jason Gardner, P.E., Cindy Gebhard, and Ida Black of Gannett Fleming, Inc.; Bruce G. Stegman, P.E. of Advantage Engineers; James B. Pease, P.E. and Casey Grzybowski of McCrossin Foundations; and Vicki Porto, P.G.

To obtain further information on this, past, and future conferences, visit our website at: <http://www.central-pa-asce-geotech.org>. Mark your calendars for the next seminar October 31 through November 2, 2018.

Government Relations Update

Submitted by: Jason Bowes, P.E., Government Relations Chair

ASCE is currently planning annual Legislative events on both the National and State levels, with the ASCE National Fly-In taking place in Washington, D.C. March 14th-16th and an Infrastructure (Legislative) Day in Harrisburg on May 9th. Attendees of the DC Fly-In will have the brand new 2017 Report Card for America's Infrastructure in hand, which ASCE is scheduled to release just prior to the event on March 9th. Infrastructure Day, a combined effort of the four ASCE Sections in Pennsylvania, will likely build upon the same environmental (water) issues as last year's event, with the possibility of some transportation related priorities thrown in. If you would like additional information regarding the May 9th Infrastructure Day, or if you have volunteered for the event in the past and would like to do so again, please don't hesitate to contact me at jbowes@gpinet.com or (570)703-0458.



ERYMC attendees listen to the Key Contact presentation

I was happy to present an overview of ASCE's Key Contact Program to a group of Younger Members at the Eastern Region Younger Member's Council (ERYMC) in Newark, NJ on January 21st. ASCE's Key Contact Committee is a constituent committee of the ASCE Committee on Public Policy. Key Contacts are the foundation of ASCE advocacy for a variety of different issues impacting the civil engineering profession from licensure to transportation funding to STEM education. The message was well-received, and was followed by some open discussion about what it takes to really make a difference at the grassroots level. Thank you to the 2017 ERYMC organizers, Rita Exposito and Joe Danatzko, for allowing me to speak on behalf of ASCE's Key Contact Committee.



Presenting to Younger Members at ERYMC in January

On February 1st, I, along with Kerry Henneberger, Section Vice President, attended a planning meeting with the PennDOT P3 Office for a discussion on the current and future state of transportation public-private partnerships in PA. With a couple of P3 projects under their belt, PennDOT is looking for ways to increase the number of unsolicited bids they have been receiving. PennDOT is planning to host an in-depth presentation/information session for contractors and consultants in the coming months. The purpose of the event is to give attendees a better idea of the types of project proposals the office is looking for and what can and cannot be done when preparing the proposals.

While a final report card isn't expected until the summer of 2018, dozens of industry experts and leaders will be busy working on the report card during the second half of this year. The last state report card was released in 2014, running on a four-year release cycle. Stay tuned for more information about how you can become involved in this ever so important effort.

Congratulations

NTM Celebrates 10 Years of Success

February 2, 2017, Dillsburg, PA— NTM Engineering, Inc. (NTM) is proud to celebrate 10 years in business. Small businesses are the cornerstone of our local economy, with women-owned businesses making up a total of 9.9M in the United States. Starting as a four-person firm, our award-winning team has grown to include over forty talented professionals and three office locations.

This milestone commemorates a decade of serving our clients with the quality work that is synonymous with the NTM name. Our success has stemmed from our relationships with our long-term clients, the specialized skills of our staff, and by volunteering in the communities that surround our office locations. For the past three years, NTM has been named one of the Best Places to Work in PA for 2014, 2015, and 2016. In addition, NTM has also received PSMJ's Premier Award for Client Satisfaction, the Seven Seals Award, and named as a Patriotic Employer.



"We are proud of what NTM has accomplished in the last ten years, from the exceptional staff we have added to our team to the specialized services that we showcase in our projects every day. Our mission is not only to produce quality work that maintains a safe and healthy environment for the general public, but also to continue to be an employee-focused firm. We look forward to building upon the growth that NTM has achieved and the future of our company," stated Donna Newell, MS, PE, CFM, President.

Established in 2006 and headquartered in Dillsburg, Pennsylvania, Newell, Tereska & MacKay (NTM) Engineering, Inc. employs over 40 professionals and is a registered Disadvantaged Business Enterprise in Pennsylvania, Maryland, and Delaware and a Women-Owned Small Business with the federal government. NTM has locations in State College and Philadelphia. The firm's four principals—Donna Newell, MS, CFM, PE; John Newell, MEng, PE, CBI; Rachel Tereska, MS, PE; and Jeffrey MacKay, MS, PE, CPESC—are all licensed professional engineers with master's degrees in civil engineering and offer a combined 60+ years of engineering experience.

Announcements

ASCE COLLABORATE

Give and get with fellow members on the exclusive new ASCE Collaborate

Submitted by: Ben Walpole, National ASCE News Editor

It's a little bit like a party where all the invited guests are civil engineers.

ASCE Collaborate is a new member benefit giving Society members a powerful resource with which they can network 150,000 civil engineer colleagues, exchange knowledge, and share solutions. The online forum launched this week and already has members talking and comparing notes.

In the Environment, Coasts, Oceans, and Water Infrastructure community, for instance, members are discussing the effects of saltwater intrusion into groundwater. Other discussions are more broad and career-based – with other members discussing the pros and cons of postgraduate civil engineering degrees.

ASCE Collaborate provides the structure and network. The topics themselves are purely member-driven.

The three technical communities include Environment, Coasts, Oceans, and Water Infrastructure; Integrated Buildings and Structures; and Horizontal/Subsurface Infrastructure and Transportation.

The three professional and ASCE communities include Local Member Engagement; Public Policy; and Career and Workforce.

ASCE members can join as many communities as they'd like. [Members log](#) in using the same ASCE username and password they use to access their ASCE profile.

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New and Events

Event	Date	Location
March Section Dinner Meeting (Environmental/Water Resources Topic)	March 8, 2017	Park Inn, Mechanicsburg
April Section Dinner Meeting (Geotech Topic)	April 12, 2017	Park Inn, Mechanicsburg
Annual Harrisburg Senators Baseball Game and Picnic	June 9, 2017	City Island, Harrisburg
Annual Knoebel's Picnic	July 22, 2017	Knoebel's Grove Amusement Park

The spring and summer schedule is growing daily, please visit <http://sections.asce.org/central-pennsylvania> for more information.

For Job Postings:

Please visit our [website](#) for a full list of job openings and descriptions.

Address Change? Questions About ASCE?

If you are an ASCE member, and wish to update your address information, please visit: www.asce.org/myprofile.

If you are a member of ASCE, and have questions, please email them to: centralpa.asce@gmail.com.

Questions about the ASCE Central PA Section Newsletter? Send an email to Jason Taylor, Newsletter Editor, at jtaylor@sqcivil.com.