



**VOLUME 50, NUMBER 3** 

#### FEBRUARY 26, 2020

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#### **SECTION OFFICERS**

President Brandon R. Motuk, P.E. <u>bmotuk@quandel.com</u>

President-Elect Tim Carre, P.E. <u>2timcarre@gmail.com</u>

Vice President Joseph Bracken III

Secretary Brian Williams, P.E. briwilliams@HNTB.com

Treasurer Duke Slifko, P.E.

Newsletter Editor Jason Taylor, P.E., P.G

#### **President's Message**



Hope everyone is enjoying the beautiful landscape of winter in Central Pennsylvania! Our four legged friend, Punxsutawney Phil didn't see his shadow recently so we are all hopeful for an early Spring 2020.

ASCE Central PA and the local engineering community have all been busy planning and taking

part in local events. This year, ASCE's Multi Regional Leadership Conference was hosted in our home state and held in Philadelphia at the end of January. Local ASCE Board members took this opportunity to network with their counterparts from the East Coast.

In February, our Environmental Technical Committee hosted the monthly dinner meeting at the Camp Hill Radisson. Alex Baldowski from the Army Corps of Engineers presented on the Ecosystem Restoration Project at Poplar Island on the Chesapeake Bay in Maryland.

By the time you are reading this, we will have just finished up Central PA's Engineer's Week. The week long dedication to our local engineering community culminates with a banquet dinner at the West Shore Country Club. ASCE is always proud to be a sponsor at this event.

Lastly, let's not forget ASCE's biennial Geotechnical Conference being held on April 22-24, 2020 at the Hershey Lodge. If you haven't registered yet, more information can be found at <u>https://central-paasce-geotech.org/</u>. This event seems to grow in size every year and we are very thankful for the countless hours that the volunteers spend in organizing this informative conference!

As we look ahead, our Structures Technical committee will be hosting the March Dinner meeting at the Radisson on March 11<sup>th</sup>. At this meeting we will also recognize the section's Life Members. We hope to see you there!

As always, we are always looking for volunteers to join the Board of Directors including the Leadership Board. For anyone who is not currently involved in the direction of our local ASCE Section, this is a great way to gain leadership experience, make valuable contacts both locally and nationally, and give back to your Engineering community! Please reach out to me personally for any questions that you may have.

I look forward to seeing you all at our next event!

Sincerely, Brandon R. Motuk, P.E., M. ASCE 2019-2020 Central PA Section President bmotuk@guandel.com





WELCOME NEW PROFESSIONALS: Joe Holbritter

#### WELCOME NEW STUDENTS:

Alexander Smith Elizabeth Jones Jason Thomas Jonathan Marklew Taylor Kyle Purnell Victor Cai Zach Elvin

## National ASCE 2021 President-Elect Official Nominees

ASCE Election time is upon on. Please see the below candidates for president. The election winner will go on from President-elect to serve as Society President in 2022.



Maria Lehman, P.E., ENV SP, F.ASCE



#### Dennis D. Truax, Ph.D., P.E., DEE, D.WRE, F.ASCE



#### HOW TO VOTE IN THE ELECTION

- Members at the grade of Associate or above may vote in the election.
- Members must pay their dues no later than April 1 and have a valid email address on file.
- Paper ballots are available upon request. Please contact Patty Montgomery for more information.
- Election credentials will be the same as your ASCE login.
- Voting will be open May 1 until June 1 via online balloting.





### **Region 2 Director's Report**

January/February 2020

Jack A. Raudenbush, P.E., F.ASCE, your Region 2 Director is a member of the Central Pennsylvania Section. Jack will be representing you at the next Society Board meeting in Washington, DC on March 14-15, 2020.

**Future World Vision.** Civil engineers, in reimagining the world, must adapt how we design, build, operate, and maintain our infrastructure systems.

Using data-driven, in-depth, scenario-planning analysis, Future World Vision puts civil engineers in position to lead not just today but five decades into the future. Four types of cities are being imagined:

- Resilient Cities
- Progressive Megacities
- Dispersed Settlements
- Unequal Enclaves

By mapping out key trends and potential outcomes, a projected range of plausible future-based scenarios is being developed. Each scenario models how society might interface with cities, infrastructure, and operational systems, while illustrating what civil engineers must do to develop solutions for this changing future.

Future World Vision will help ensure that the decisions we make as civil engineers, in building high-tech, resilient, and sustainable communities of the future, optimize desirable outcomes while avoiding undesirable and unintended consequences.

Go to <u>www.Futureworldvision.org</u> to learn more about this exciting undertaking.

#### Region 2 Member Shout Out.

#### Nicholas Johnson and Phillip Harter of the Reading Branch

<u>Nicholas Johnson</u> works at Great Valley Consultants in Reading, Pennsylvania. GVC is a small consulting firm focused on civil and municipal engineering in Berks County and surrounding areas. Nick focuses on Environmental and Water Resources engineering within the Civil Engineering discipline. He has gained valuable field experience in his 12+ year career which broadened his knowledge of other civil engineering specialties. He attended Penn State from 2003 to 2007 and joined ASCE in 2009. Nick joined because he wanted to branch out, and to better understand the experiences of other in our broad civil engineering industry, and to better serve in the civil engineering profession.

<u>Philip Harter</u> is currently juggling overtime, a toddler, and has a second child expected in May. As a structural engineer at Worley, Phil has had the opportunity to complete designs of numerous power generating facilities in the U.S. and around the world. Most recently, Phil has been lucky enough to be working on one of the first, major offshore wind power facilities in the United States. Phil joined ASCE during college as part of the Steel Bridge team and participated in the national event at the University of Florida. Phil stayed with ASCE after graduating from Penn State because it supported infrastructure investment and the education of the next generation of engineers.

Coincidently, it is interesting to note that Phil and Nick have been friends since 2000, when they met in the 9<sup>th</sup> grade at Governor Mifflin Senior High School in Shillington, Pennsylvania.





Please share in my thanks to both Nick and Phil for their involvement in ASCE and to their being part of the resurgence of the Reading Branch.

**Visit an ASCE designed historic site.** These sites illustrate the creativity and innovative spirit of civil engineers. Visit <u>https://www.asce.org/landmarks</u> to find sites near you. Share photos of your travels with me and I will post in Region 2 correspondence and on our Region's social media pages.



#### Detroit-Windsor Tunnel, Detroit MI, National Historic Civil Engineering Landmark

In November, I visited the historic Philadelphia City Hall. This month, I visited the <u>Detroit-Windsor Tunnel</u> which connects Detroit, MI to Ontario, Canada and was completed in 1930. It was the third underwater vehicular tunnel constructed in the United States. It was designed by the firm Parsons, Klapp, Brinckerhoff and Douglas. The tunnel is 5,160 feet in length and at its lowest point, the two-lane roadway is 75 feet below the surface of the Detroit River.

I look forward to seeing you at ASCE events.

- MRLC in Philadelphia, PA, Jan. 31-Feb. 1, 2020,
- National Engineer's Week, Feb. 16-22, 2020
- ASCE National Convention in Anaheim, CA, Oct. 28-31, 2020
- And your Section and Branch meetings

Enhanced membership. <u>https://www.asce.org/member-benefits/</u>

- 10 Free PDH's
- Conference, Webinar and Publication discounts
- Podcasts ASCE Plot Points <u>https://news.asce.org/category/asce-plot-points-podcast/</u>
- Mentor Match and Career by Design especially for Students and Younger Members

Jack A. Raudenbush, P.E., F.ASCE Director, Region 2 <u>jraudenbush@navarrowright.com</u> 717.944.0883



#### **Engineers Week at the Whitaker Center**

Submitted By: Bill Kingston, PE, CFM, Younger Member Group President

On February 15th and 16th, the Whitaker Center's Harsco Science Center in Harrisburg, PA hosted their annual Engineers Week Event to introduce engineering concepts to school age children and show them how math and science can be applied to solving real life problems. Each year, members of several local engineering societies get together and set up activities to supplement the science center's existing permanent displays. This year, participating organizations included the American Society of Civil Engineers (ASCE), the American Institute of Chemical Engineers (AIChE), the American Society of Highway Engineers (ASHE), the Institute of Electrical and Electronics Engineers (IEEE), the Institute of Packaging Professionals (IoPP), and the Women's Transportation Seminar (WTS).

Ten members of the ASCE Central PA Section volunteered to help educate children and their parents about the engineering of structures. Volunteers helped facilitate two activities. The first involved constructing stacked platforms out of Dixie cups and cardboard squares. The activity aimed to convey the concept of weight distribution and about how something as flimsy as a paper cup could be used to hold a person's weight. Participants laid out arrays of cups on the cardboard squares and then stood on their platforms to load test them. Participants went through several rounds, each one involving the removal of more

cups until the platforms failed. They got to experience just how few cups were necessary to actually hold their weight, if arranged correctly. This year's winner was down to 6 cups!

The second activity involved recreating famous civil engineering landmarks out of LEGOS as part of the Center's temporary Bricksburg exhibit.

Many thanks to Matt Greenholt, Brie Coleman, Quentin Lamm, Tania Reinaman, Nate Kirchner, Tim Zeigler, Bill Kingston, V Nagaraj, Poe Myint, and Gerald Maragos for helping out and making it such a great event!











#### Section Members Attend 2020 Multi-Region Leadership Conference

Submitted by: Bill Kingston, PE, CFM, Younger Member Group President

The ASCE Multi-Region Leadership Conference (MRLC) was held from January 30th through February 1st in Philadelphia, PA at the Philadelphia 201 Hotel. This annual leadership training event brought together current and rising leaders from the numerous Sections, Branches, Institutes, Younger Member Groups/Forums, and Student Chapters within ASCE Regions 1, 2, 4, and 5 to develop and enhance their leadership skills, receive greater exposure to the organization, operations, and resources of ASCE, and network with peers and colleagues. The conference was hosted by the Philadelphia Section.

Organized under the umbrella of the MRLC, three major Society components met concurrently, as well as individually, during this event: the Workshop for Section, Branch, and Institute Leaders (WSBIL), the Eastern Regional Younger Member Council (ERYMC), and the Workshops for Student Chapter Leaders (WSCL). Section attendees included Jack Raudenbush, Region 2 Director, Michelle Madzelan, Section Director of Member Services and Transportation Technical Group Co-chair, Bill Kingston, Section Younger Member Group President, Nowell Philips, Section Younger Member Group Events Coordinator, and Dr. Paul



ASCE Regional Boundaries Regions 1, 2, 4, and 5

Ackerman, Faculty Advisor for the York College of Pennsylvania's ASCE Student Chapter. Fifteen students from the Messiah College, Penn State University Park, and York College of Pennsylvania ASCE Student Chapters also represented the Central Pennsylvania Section at the WSCL.

Over the course of the event, Section leadership attended lectures presented by high-ranking ASCE National staff (including current President K.N. Gunalan, Ph.D., P.E., D.GE, F.ASCE, President-Elect Jean-Louis Briaud, Ph.D., P.E., D.GE, Dist.M.ASCE, Past-President Robin Kemper, P.E., LEED AP, ENV SP, F.SEI, F.ASCE, and Secretary and Executive Director Thomas Smith III, ENV SP, CAE, F.ASCE) and Regional leadership on topics pertaining to professional and leadership development. Noteworthy presentation topics included ASCE's Future World Vision initiative, Team Building, How Reality Modeling Adds Real World Digital Context to Your Civil Project, From Hesitation to Hero's Journey, Society Leaders Q&A, ASCEnd – Taking Off as a Leader, Becoming an Agent of Change and Innovation, Emotional Intelligence, and ASCE and Your Dream.

In addition to the general MLRC events, ERYMC participants had the opportunity to learn about the City of Philadelphia's "Vision Zero" program and how its principles are being applied throughout the City from Kelley



Multi-Region Leadership Conference Attendees from the . Central Pennsylvania Section

Yemen and Casey Ross. Vision Zero is a strategy to eliminate all traffic-related deaths and severe injuries, while increasing safety, health, and mobility for all. Younger Member roundtable discussions and regional breakout sessions also allowed participants to share ideas with representatives of other Younger Member Groups from across the East Coast and gain insight into ways to strengthen our YMG here in Central PA.

The Section thanks the members who attended for their continued dedication to the Society and to the civil engineering profession in general. Next year's MRLC will be held in Charlotte, NC in January.





#### **ASCE Future World Vision Interactive, Immersive Floating City**

Get a first glimpse of The Floating City, the ASCE Future World Vision interactive, immersive experience, constructed in a real-time 4-D computer simulation model.

Created using Future World Vision's combination of future-scenario forecasting and deeply researched hard data, The Floating City puts you decades into the future so you can start creating tomorrow's solutions today.



Glimpse ASCE Future World Vision's Interactive, Immersive Floating City

WATCH NOW





#### CENTRAL PENNSYLVANIA GEOTECHNICAL CONFERENCE

## Save The Date April 22 – 24, 2020

## 31<sup>st</sup> Central Pennsylvania Geotechnical Conference Hershey, Pennsylvania

- Cody Telgheder Underpinning at a Nuclear Site Remediation
- Cameron Troxel Large Diameter Fiber Reinforced Polymer Monopile Dolphins
- Ed Laczynski LRFD
- Gunaratnam Gnana US-301 Test Pile Program
- James Long DCNR Dams Restoration Priorities
- Jeff Goodwin Drilled Shaft Testing and Redesign at Guilford Reservoir
- Dr. Robert Holtz Prefabricated Vertical Drains Case Histories
- Dr. Robert Bachus TBD
- Mark McNeilly Foundation Design for Steel Arch Railway Bridge over Genesee River
- Allen Cadden Hybrid Retaining Wall at Yeager Airport
- Michael Sydlik Permanent Sheet Pile Wall System PA Turnpike MP 40.84WB
- Dr. Ray E. Martin Issues Related to Geotechnical Data Provided for Dam Foundation Grouting
- Dr. Sebastian Bryson Calibration of Satellite-Derived Factor of Safety using Sensor Data
- Stephanie Chechak Landslide Remediations for Highway Projects in Western PA
- Dr. John Turner Case History of Engineering in Rock: Bridge Over the Rouchleau Pit, MN

To register, exhibit and obtain further information, visit our website at:

#### https://central-pa-asce-geotech.org/

Registration questions - Casey R. Grzybowski at: kcgriz@gmail.com Exhibit questions - Bruce Stegman at: bruce.stegman@comcast.net





# ENGINEERING THE FUTURE



"The Suspension Bridge: A Case Study in the Evolution of Engineering Design" With Featured Speaker: Dr. Stephen Ressler, noted educator, engineer, and author

## Thursday, April 2, 2020 5:30 p.m. • Waldner Performing Arts Center

Free tickets required. To order your free tickets, visit www.ycp.edu/engineering-the-future

This event will be followed by a Special Industry and Student Reception at the Agricultural and Industrial Museum, 217 West Princess Street, York, PA.

To RSVP for the Engineering the Future Industry Reception, click here.

One PDH credit available for Professional Engineers

Funded in part by a York College Great to Greater grant.







## **Volunteers** Needed!

### *Help us change their world! Volunteer for our STEM Summit.*

**Trinity High School** Tuesday, March 17, 2020 *Approximately* 8 AM - 2 PM





#### What you will do:

- Empower students to explore STEM careers
- Facilitate a fun and engaging STEM activity
- Summit Receive onsite training, breakfast and lunch

Junior Achievement of South Central PA 717-843-8028 | www.jascpa.org Contact us at STEM@jascpa.org



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#### **REGISTER NOW**



## STRUCTURES CONGRESS 2020

St. Louis, Missouri | April 5-8

#### **Opening Keynote:**

Generations@Work with Sarah Sladek, CEO of XYZ University

Learn how to make the most of multi-generational teams.

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#### **Sponsors and Press Releases**







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Larson Design Group, a national, award-winning architecture, engineering and consulting services firm is excited to announce that Vincent A. Thompson II has joined its executive team as Chief Legal Officer. Vince brings more than 10 years of extensive industry experience in the architecture, engineering, and construction professional consulting services industry.

Based out of the Pittsburgh office, Vince will lead and manage activity related to contract development, enterprise-wide risk management, corporate compliance, and provide strategic solutions for LDG's internal and external legal affairs.

"Adding this new role at Larson Design Group allows us to continue to grow and execute our targeted strategic priorities as we expand nationally," said President and Chief Operating Officer, Dave Martin. "Vince's legal expertise in the architecture, engineering and construction services market, including strategic acquisitions, will be of critical value as we enter into more complex business and contractual relationships." For more information, visit <u>www.larsondesigngroup.com</u>.



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#### **Foos Named Director of Security & Safety Services**

Furthering a vision to elevate security and safety services as a critical component of operational reliability, <u>Gannett Fleming</u> recently named William Foos, CPP, PSP, to the position of director of Security & Safety Services.

"Security should be a forethought, not an afterthought," said Bob Scaer, Gannett Fleming chairman and CEO. "Breakthroughs in artificial intelligence, autonomous vehicles, energy storage, and the Fourth Industrial

Revolution present challenging new vulnerabilities for many of our clients, but under Bill's leadership, we have the talent and resources to address these evolving concerns."

With more than 25 years of combined industry and military experience, Foos' work with high-profile clients includes:

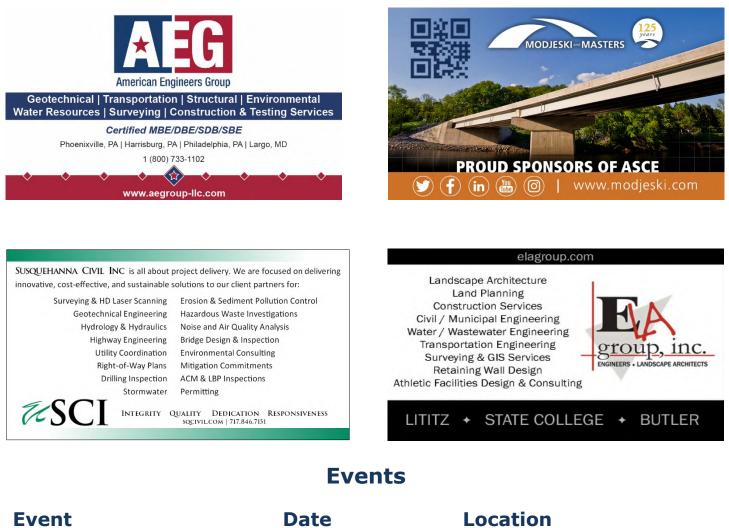
- Conducting studies of the World Trade Center complex, Panama Canal, and Pope Francis' 2015 visit to Philadelphia
- Leading the after-action review of the emergency action plan activation that occurred during the 2017 Oroville Dam spillway failure
- Leading and participating in the independent peer review of the U.S. Bureau of Reclamation's Security, Safety, and Law Enforcement Office.







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Event	Date	Location
ASCE Legislative Fly-in	March 11, 2020	Washington, D.C.
March Dinner Meeting	March 11, 2020	Radisson Hotel, Camp Hill
<u>York College of PA – Engineering the</u> <u>Future Event</u>	April 2, 2020	York College
April Dinner Meeting	April 8, 2020	To Be Determined
Central PA Geotechnical Conference	April 24, 2020	Hershey, PA
Knoebel's Park	July 25, 2020	Elysburg, PA

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

#### **Job Postings**

American Engineers Group (AEG) – Project Geotechnical Engineer

- C.S. Davidson, Inc <u>Engineer-In-Training and Designer (Bridge Services)</u>, <u>Project Designer Entry-Level</u> <u>Civil Engineer</u>, <u>Environmental Engineer</u>, <u>Construction Inspector</u>, <u>Project Manager – Civil/Municipal</u>
- ELA Group, Inc Traffic/Transportation Project Manager, Traffic/Transportation Engineer.
- Gannett Fleming Senior Highway Engineer, Geotechnical Project Engineer, Water Resources Engineer, Civil Engineer, Entry Level Water Engineer, Transportation Project Manager, Water Engineering Intern, State Traffic Management Center Operator, Highway Project Manager, Civil Engineer

Greenman-Pedersen, Inc. - Senior Highway Engineer, Senior Bridge Engineer

- Larson Design Group Project Manager, Construction Inspection
- Modjeski and Masters, Inc Entry Level and Experienced Inspectors
- Newell Tereska & MacKay Engineering (NTM) Civil/Water Resources Engineer, Civil/Stormwater Engineer
- Susquehanna Civil Water Resource Designer, Highway Designer, Structural Designer, Right-Of-Way/Utility Coordinator,
- Traffic Planning & Design, Inc (TPD) <u>Construction Inspection/Manager, Highway Design Specialist,</u> <u>Highway Design Project Manager (public and Private), Municipal Traffic Engineer, Traffic Engineer,</u> <u>Traffic Signal/ITS Engineer, Transportation Planning Specialist, Structural Designer</u>

Many new jobs postings have recently been added to the Section Website at <u>http://sections.asce.org/central-pennsylvania/node/10</u>

#### Address Change? Questions About ASCE?

If you are an ASCE member, and wish to update your address information, please visit: <a href="http://www.asce.org/myprofile">www.asce.org/myprofile</a>.

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

Questions about the ASCE Central PA Section Newsletter? Send an email to Jason Taylor, Newsletter Editor, at <u>itaylor@sqcivil.com</u>.