Program of Events

5:15  Social Hour

6:20  Introduction & Opening Remarks
Patrick Sullivan, P.E.
Civil & Environmental Consultants, Inc.
ASCE Region 2 Governor

President’s Message
Sam Shamsi, P.E., Ph.D., F.ASCE
ALCOSAN
ASCE Pittsburgh Section President-Elect

6:30  Keynote Speaker
Roger A. Eaton, P.E.
HDR, Inc.

7:00  Dinner

7:45  Awards Presentation
Patrick Sullivan, P.E.

Recognition of National and Regional Awards

Student Awards Foundation
American Bridge Leadership Award / SAF Italo V. (Ody) Mackin
Achievement Award / ASCE Achievement Award
Finalists

---SECTION AWARDS---

2019 Civil Engineering Achievement Award
PennDOT District 9 SR 6219 Section 020 (US 219)
L.R. Kimball

2019 Award of Merit
Poplar Street Storm Sewer Project

2019 Journalism Award
Jamie Martines
Trib Total Media

2019 Professor of the Year
Zhen (Sean) Qian, PhD
Henry Posner, Anne Molloy, and Robert and Christine Pietrandrea
Associate Professor, Dept. of Civil and Environmental Engineering
Carnegie Mellon University
Program of Events

2019 Employer of the Year
American Geotechnical & Environmental Services, Inc.

2019 Young Government Civil Engineer of the Year
Gregory Braun, P.E.
U.S. Army Corps of Engineers Pittsburgh District

2019 Young Civil Engineer of the Year
Jefferson (Jeff) Argyros, P.E.
Arcadis U.S., Inc.

2019 Civil Engineer of the Year
Michael D. Lichtie, P.E.
ALCOSAN

9:30  Raffle

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Roger Eaton, PE
Vice President / Professional Associate / Bridge Group Manager
HDR, Inc.

Roger is a Vice President, Professional Associate, Senior Bridge Engineer and Senior Project Manager in HDR's Pittsburgh office. Offering over 30-years of experience, Roger is actively involved in managing projects, serving as a senior technical resource, performing quality reviews, and providing management oversight of projects.

His experience includes the design, management, construction and rehabilitation of bridge structures and roadway projects. He has managed the design of river bridge projects, interchange projects, bridge replacement projects, and other roadway design projects.

A few of his notable projects include; the Hoover Dam By-Pass Bridge over the Grand Canyon in Nevada; the Marc Basnight Bridge over the Oregon Inlet in the Outer Banks; and the Mon-Fayette Expressway interchange in Uniontown.
Recognition of National and Regional Awards

ASCE Pittsburgh Section
2019 Outstanding Large Section Award
(4th time in 6 years since 2014)

EWRI Pittsburgh Section
2020 Outstanding Institute Chapter Award

ASCE Distinguished Member Award
Dr. David Dzombak (CMU)

T&DIPittsburgh
2020 Harland Bartholomew Award
Dr. Constantine Samaras (CMU)

GI-Pittsburgh
2020 Wallace Hayward Award
Seth Pearlman, PE, (National Director, Menard Inc.)

ASCE 2019 Practitioner Advisor of the Year Award from ERYMC
Jayne Marks (Pitt)

ASCE 2019 Recognition Award
Professor Jim Thompson (CMU Faculty Advisor)
American Bridge Leadership Award

In 1988 members of the ASCE Pittsburgh Section founded the Student Award Foundation (SAF) of the Pittsburgh Section of the American Society of Civil Engineering. Since that time, the SAF has awarded emerging leaders who call the Pittsburgh Section home. In 2007 American Bridge Company provided a donation of $75,000, and since, the primary award is dubbed the American Bridge Leadership Award. The SAF will annually award the American Bridge Leadership Award for the amount of at least $5,000.

SAF Italo V. (Ody) Mackin Achievement Award and ASCE Achievement Awards

The Student Award Foundation (SAF) of the American Society of Civil Engineers (ASCE), Pittsburgh Section, is proud to announce the naming of one of its ASCE student achievement award. In honor of Italo V. (Ody) Mackin, the Mackin Engineering Company provided a donation of $37,500 to the SAF. This prestigious award will now and perpetually be known as the “SAF Italo V. (Ody) Mackin Achievement Award.” The SAF will annually award the Italo V. (Ody) Mackin Achievement Award for the amount of at least $1,250.

Thanks to the donation by American Bridge, Mackin Engineering Company and all the generous benefactors, this year, the amount of the SAF American Bridge Leadership Award is $7,000, and the amount of the Primary Achievement Award, now known as the “SAF Italo V. (Ody) Mackin Achievement Award,” is $2,000.
Katherine Bolden is a senior at the University of Pittsburgh at Johnstown obtaining her Bachelor of Science degree in Civil Engineering. Ms. Bolden is an active member of the ASCE Student Chapter and served as the ASCE Chapter Secretary. In addition, she served as team captain of Pitt-Johnstown Estimating Team for the Contractors Association of Western Pennsylvania Annual Estimating Competition, a member of Society of Women Engineers Student Chapter and UPJ Women’s Basketball team.

Kaitie DeOre is a senior at the University of Pittsburgh obtaining her Bachelor of Science Degree in Civil Engineering. Ms. DeOre is an active member of the ASCE Student Chapter and has fulfilled several leadership roles such as ASCE Student Chapter President, Service and Outreach Chair, National ASCE Student Ambassador and Ohio Valley Student Conference Geotechnical Team Captain and is a member of the Society of Women Engineers and the Contractors Association of Western Pennsylvania Annual Estimating Competition. In addition, Kaitie developed a civil engineering outreach program in her high school, planned and executed a fundraising event for the Tree of Life Synagogue shooting victims and traveled to Panama to help the Embera tribe have access to clean water and solar energy.

Jordan Matus is a senior at the University of Pittsburgh at Johnstown obtaining his Bachelor of Science degree in Civil Engineering. Mr. Matus is an active member of the ASCE Student Chapter and has fulfilled several leadership roles including the ASCE Student Chapter Secretary and Alumni Coordinator. During his sophomore and junior years, he served as UPJ’s Concrete Canoe Team Co-captain, and Paddling Coach. During his senior year, Jordan served the concrete canoe team as their Compliance Officer. Additionally, Jordan is an active member of the Steel Bridge Team and the Associated General Contractors Student Chapter.

Ryan Rusali is a junior at Carnegie Mellon University obtaining his Bachelor of Science degree in Civil Engineering and Engineering and Public Policy. Mr. Rusali is an active member of the ASCE Student Chapter, attending the ASCE Region 2 Assembly and for two years has served on the Executive Council as the Student Chapter Communications Director. Ryan’s major extra-curricular activities outside the
classroom are associated with his passion for civil engineering research projects. Ryan wrote the proposal and obtained funding to study the flexural strength of bamboo and he participated in a research program for the study of urban planning and design in Berlin, Germany.

**Michael Winiarczyk** is a senior at the University of Pittsburgh obtaining his Bachelor of Science degree in Civil Engineering. Michael is an active member of the ASCE Student Chapter and served as the ASCE Student Chapter Treasurer. He was instrumental in the development and success of Pitt’s ASCE Ohio Valley Student Conference Survey Team by serving as the Co-Captain in 2019 and the Captain in 2020. Additionally, Michael served two years as the Vice-President of Pitt’s Institute of Transportation.
L.R. Kimball provided preliminary and final design and construction consultation services for the construction of approximately 11 miles of new, limited-access, four lane highway for US 219 in Somerset County, from the northern terminus of the Meyersdale Bypass to the southern end of the existing US 219 four-lane in Somerset, PA.

Included in this project were minor realignments of Garrett Shortcut Road (SR 2031), Althouse Road (T-550), Crossroad School Road (T-419), Fogletown Road (T-431), and Pony Farm Road (T-382), as well as, the addition of two new interchanges. The new southern interchange, located at the northern terminus of the Meyersdale Bypass, will provide access to the town of Garrett. The second new interchange, located at Mud Pike Road (SR 3010), will provide access to Berlin and Rockwood.

Design services included line and grade refinements, pavement design, drainage, storm water management, erosion and sediment pollution control, coordination with CSX Railroad, utility engineering, hydrologic and hydraulic studies, highway lighting, roadside development, right-of-way, structures, geotechnical engineering, surveying, traffic control, signing and pavement markings, coal evaluation, and constructability reviews.

Environmental services included additional natural resource investigation, agency coordination, mitigation, commitment tracking, and groundwater monitoring. Structure design for six sets of dual mainline bridges (Pine Hill Road, Swamp Creek, Buffalo Creek, Garrett Shortcut Road, Mud Pike Road, and Walters Mill Road) and widening of existing bridges over CSX Railroad is included with the project.
2019 Civil Engineering Achievement Award

Key Team Members

- L.R. Kimball- Prime Consultant for the Final Design and Construction Consultation
- HDR Engineering, Inc.: Structure design
- American Geotechnical & Environmental Services, Inc.: Geotechnical engineering
- Heberling Associates, Inc.: Cultural resource mitigation
- Keller Engineers, Inc.: Surveying
- The Markosky Engineering Group, Inc.: Engineering support
- Santangelo & Lindsay, Inc.: Highway lighting

The complexity of this expansion of U.S. Highway 219 cannot be understated. This new 4-lane highway, connecting Somerset to Meyersdale, stretches across miles of streams, wetlands, and natural habitats of several endangered species. The landscape/topography surrounding SR 6219 was challenging to work within as it included steep inclines, coal mines, mine spoil, sink holes, unconsolidated strip mines, and large farm operations.

In conjunction with the surrounding landscape, the project itself was expansive. Overall, the work associated with this project included:

- Construction of 2 new interchanges
- Modification to 1 interchange
- Construction of 6 sets of new dual structures, including the Buffalo Creek Bridge, the highest bridge in PennDOT District 9, measuring approximately 218’ high
- 1 set of modified dual structures (2 span curved girders)
2019 Civil Engineering Achievement Award

- Construction of 4 new box culverts
- The relocation of four township roads and one state road
- 10 million cubic yards of earthwork
- 5 million cubic yards of excess material

The project also constructed twenty-seven storm water management basins and installed over 70,000 linear feet of drainage pipe and 400 drainage inlets and manholes. Over a half-million square yards of concrete pavement (11-inch thick) was placed to create the final roadway surface.

Contract management was also a complex challenge as the highway was constructed in three main contracts: an earthwork and drainage contract, a structures contract, and a roadway paving contract; however, in total seven separate construction contracts were used to complete the overall project.

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Lastly, complex permitting concerns threatened to derail the project. The rural and
environmental nature generated an abundance of permitting concerns. However, strong organizational capabilities and solid working relationships enabled the team to work through permitting challenges and keep the project moving forward.

In addition to US Fish and Wildlife Services, Pennsylvania Game Commission, and the Pennsylvania Fish and Boat Commission several other organizations including the U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, Pennsylvania Department of Environmental Protection, and Pennsylvania Department of Conservation and Natural Resources, required realistic and cost-effective action plans to address a range of issues related to:

- Pollutant discharge elimination systems
- Watershed designs
- Wetland mitigation planning
- Onsite and offsite stream restorations
- Dam removals
- Wildlife passages, which resulted in a 20’ x 10’ culvert (equipped with skylights) for large mammals and multiple 18” and 36” culverts for small mammals and herptiles

A primary goal for this US 219 extension was to promote economic growth and development along this transportation corridor by safely improving southern access to Somerset, Johnstown, and other communities for commerce and visitors. The completion of this highway will generate this growth by retaining and expanding existing industries through efficient access to markets and suppliers.
2019 Award of Merit

Poplar Street Storm Sewer Project
Allegheny County, Pennsylvania

Project Team
The project team included Green Tree Borough for design, modeling, project management, Pennsylvania Department of Transportation for Restoration, and ALCOSAN for project funding and support.

Project Overview
Green Tree Borough operates separate storm and sanitary sewer systems. The majority of the Borough of Green Tree is surrounded by the City of Pittsburgh and the City operates a combined sewer system in the areas adjacent to Green Tree. Green Tree is located along a geographical peak and is generally higher in elevation than the adjacent City property. Because of the elevation differences, Green Tree's storm and sanitary sewers flow into the City of Pittsburgh and connect to their combined system. A review of the Green Tree sewer maps revealed that in the early days of Green Tree, an open channel called Bell's Run ran adjacent to Noblestown Road, beginning near the intersection of Poplar Street and running along Noblestown Road and Baldwick Road into Crafton. At some point in time the channel was enclosed and Noblestown Road was constructed over it.

Bells Run is still an open channel along Baldwick Road. Some research into the Pittsburgh Water and Sewer Authority (PWSA) records indicated that in the early 1960’s a chamber and regulator system was installed at the border between Green Tree and the City of Pittsburgh that combined the separate sewer flows from Green Tree with the combined sewer from the City of Pittsburgh and piped
the flow to ALCOSAN. An overflow was installed so that when the 12-inch combined sewer reached capacity, the combined overflow would flow into the enclosed Bell’s Run channel in Noblestown Road and eventually into Bell’s Run.

A design for a new storm sewer was developed that would bypass the combined sewer chamber and put the storm sewer flow originating in Green Tree directly into the Bell’s Run stream channel, which is where it originally was to go. The design consisted of installing 372 linear feet of 36-inch diameter reinforced concrete pipe from an existing storm sewer manhole upstream of the combined sewer chamber to an intersection point downstream on the overflow pipe from the chamber to the Bell’s Run channel. Three manholes were proposed for the new system, and the intersection was proposed to consist of an RCP wye that would connect the new pipe to the existing sewer at the downstream end. The anticipated result of this configuration would be that the chamber would no longer overflow combined sanitary sewage and stormwater into the Bell’s Run channel during reasonably sized storms.

When the preliminary design was completed and PennDOT approved the restoration plans, a cost estimate was developed for the project. The total cost for design, permitting, installation and restoration was estimated to be $549,000. Green Tree Borough Council initially approved a $500,000 budget for the project, and it was anticipated that a grant from ALCOSAN would be applied for to supplement the cost of the project.

In 2016 ALCOSAN introduced the Green Revitalization of Our Waterways (GROW) program as a way to reduce excess stormwater from entering the treatment plant during wet weather events. In January of 2017 the ALCOSAN Board of Directors approved $9 million in grant funding for projects around the region that were aimed at reducing stormwater from the system. The grants were awarded based on the most economic projects that demonstrated significant removal of stormwater from the system.
The decision was made to monitor the storm sewer to study the characteristics of the tributary flow to the diversion chamber. A flow monitor was installed just upstream of diversion chamber in order to estimate the contribution to the combined system for various storms from the Green Tree separate storm sewer system. Storm data from a rain gage very close to the project was gathered and a model was developed to estimate the possible quantity of stormwater that could be removed from the ALCOSAN system. The model results estimated that there could be a potential to remove 23 million gallons of stormwater from the ALCOSAN treatment plant for a typical year. Based on the initial $549,000 price tag, the project would result in a removal cost of $0.02 per gallon, which fell way below ALCOSAN’s target for a cost-effective removal project.

When PennDOT was approached to discuss the Highway Occupancy Permit requirements for the project, District 11-0 informed us that they were considering re-surfacing Poplar Street in the area of the project, so we collaborated the effort with PennDOT so that the road would be resurfaced by PennDOT when the sewer project was complete, resulting in almost a 50% cost savings to Green Tree Borough.

The storm sewer project was completed at a final cost of approximately $273,000. With PennDOT contributing the total cost for reconstruction of Poplar Street after construction, the final cost per gallon of removal of stormwater from the ALCOSAN system was approximately $0.005 per gallon, making this project one of the most cost-effective projects ever funded by the ALCOSAN GROW program.

This project culminated the collaboration and cooperation of State, County and Municipal government agencies to share in the costs of a single project that worked out to be very cost effective in the end. PennDOT was a very generous contributor because they kept the project on their books and saved the County and Borough a large amount of capital. Also, by ALCOSAN providing 85% of the cost of the project through the GROW program, the final contribution by the Borough of Green Tree was estimated to be $41,000. This project is a perfect example of how collaboration and cooperation between government agencies at various levels can result in significant savings.
Jamie Martines  
*Trib Total Media*

Ms. Martines has regularly authored articles in 2019 that covered a wide variety of Civil Engineering projects, issues impacting the civil engineering field, and topics involving civil engineering’s impact on the health and public safety of the community.

Ms. Martines’ writing is informative and provides the public insights into the many challenges Civil Engineers face in balancing project affordability with public safety, regulations and economic constraints. She has an M.S. in Journalism from Columbia University and has strong academic roots in political science. Jamie currently covers Allegheny County and local government for Trib Total Media.
Professor Qian began at Carnegie Mellon in August 2013 as a Research Assistant Professor with a 50-50 appointment in the Heinz College of Information Systems and Public Policy and in the College of Engineering Institute for Complex Engineered Systems. He also received a courtesy appointment in CEE at that time. His expertise is in transportation systems analysis and engineering. In July 2015 he was appointed as an Assistant Professor in CEE (75%) and the Heinz College (25%). He was promoted to Associate Professor on July 1, 2019.

Professor Qian earned his PhD in Civil Engineering from the University of California at Davis in 2011. Subsequently he was a postdoctoral researcher in CEE at Stanford University (2011–2013). Professor Qian also holds an MS in Statistics from Stanford University (2012), and a BS (2004) and MS (2006) in Civil Engineering from Tsinghua University.

Professor Qian’s research focuses on data-driven analytic methods to improve upon transportation and other infrastructure systems. His work addresses three aspects related to intelligent transportation systems: large scale data analytics and travel behavior modeling, multimodal transportation system optimization, and, most recently, interdependency of transport-energy-underground infrastructure. He leads the Mobility Data Analytics Center (MAC), and is part of Traffic21 and the USDOT-funded University Transportation Center on Improving Mobility.

Professor Qian has published 58 papers in peer-reviewed journals, in top journals such as Transportation Research (Parts B and C), Transportation Research Record, and Journal of Transportation Engineering. In addition, he has published 21 fully peer-reviewed papers in conference proceedings. He has presented 41 invited seminars, 33 of which have been since 2013. He has demonstrated a high level of research productivity and has attained national and international visibility through his research contributions.
Professor Qian has graduated seven PhD students (2 co-advised) and is currently advising 11 (5 co-advised). He has also been very active in supervising masters (13) and undergraduate (12) student research projects. He is very supportive of his students and is attentive to their career development. He is available to his students and generous in the time that he makes for them.

Professor Qian has been recognized with several awards for his research, including the NSF CAREER award, the Greenshields Prize from the Transportation Research Board, and an IBM Faculty Award.

Professor Qian has been very successful in teaching. He has taught or co-taught two graduate courses at CMU: 12-783 Geographic Information Systems (GIS) and 12-750 Infrastructure Management. He has also taught an upper-level undergraduate/first-year graduate course 12-645 Smart Cities: Growth in Intelligent Transportation Systems (ITS). Prof. Qian developed the ITS course. In addition, Prof. Qian led the Information Systems Research Practicum in the Heinz College for three semesters, and led a Heinz MS Capstone Project course. His FCE-Instructor scores in all of his courses have been consistently high, as documented in Appendix B.

Professor Qian has been very active professionally. He serves on the Transportation Network Modeling Committee of the Transportation Review Board, and three Committees of the American Society of Civil Engineers. He also serves on the editorial boards of four journals, and as an Associate Editor for the journals *Transportmetrica B* and *Transportation Research Part C*.
2019 ASCE PITTSBURGH
Professor of the Year

CONGRATULATIONS!
SEAN QIAN

Henry Posner, Anne Molloy, and Robert and Christine Pietrandrea
Associate Professor

Carnegie Mellon University
Civil & Environmental Engineering

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2020 ANNUAL ENGINEERS WEEK AWARDS BANQUET
American Geotechnical & Environmental Services, Inc.

Founded in 1995, American Geotechnical & Environmental Services, Inc. (A.G.E.S.) is a civil engineering firm that specializes in geotechnical engineering for public transportation projects.

It is a company that develops well-rounded geotechnical engineers through continued education and works on challenging geotechnical projects across Pennsylvania.

A.G.E.S. contributes to the local ASCE chapters and the continued advancement of the civil engineering profession. The company cultivates an environment that is challenging, exciting, and supportive, and where professional and personal relationships go beyond the work as engineers.
Greg Braun, P.E.
Geotechnical Engineer, US Army Corps of Engineers, Pittsburgh District

Gregory D. Braun, P.E. currently works for the US Army Corps of Engineers as a geotechnical engineer. His previous work experience includes private consulting experience as a geotechnical project engineer. Greg currently resides in Pittsburgh and is a native of the area.

His professional interests include large scale dam remediation, geotechnical investigations and design.

Greg obtained both a Bachelor of Science and a Master of Science Degree from The Pennsylvania State University in Civil Engineering. Upon graduation in 2012, Greg accepted a job with consulting firm Gannet Fleming, Inc. in Harrisburg, PA. In 2015, Greg moved back to Pittsburgh and continued to work as a consultant before joining the federal workforce in early 2018. As a geotechnical engineer at the USACE, Greg has worked as project and geotechnical engineer for the East Branch Safety Modification in Wilcox, PA and the Charleroi Locks and Dam in Pittsburgh, PA. His responsibilities included overseeing construction of a seepage cutoff wall and construction monitoring as well as developing geotechnical design parameters and loading cases.

Greg is also active locally within professional organizations. Staying heavily involved in ASCE Geo-Institute Pittsburgh Section and National Council of Examiners for Engineering and Surveying (NCEES) is extremely important to Greg as it allows him to share his
2019 Young Government Civil Engineer of the Year

Greg enjoys sharing professional knowledge with others and networking with other civil engineers. Greg most enjoys being a part of the ASCE’s Geo-Institute because it gives him opportunity to meet and learn from others in his profession throughout the United States.

When Greg isn’t working he enjoys running, fly fishing, backpacking, and hiking. Greg’s favorite fishing spot is Penn’s Creek in Bald Eagle State Forest where he fishes regularly. He hopes to continue to explore new fishing and hiking locations in the future.
Jeff Argyros grew up in Maryland and moved to Pittsburgh in 2007 to begin his engineering studies at the University of Pittsburgh. In spring 2008 he had the opportunity to study abroad under Pitt’s Plus 3 Program, where 15 freshmen from the engineering and business schools traveled to Germany for two weeks to tour five engineering company headquarters and get a taste of the culture. From 2009 to 2011, he took part in the Pitt co-op program, when he worked rotating semesters at GAI Consultants.

For his senior design project in 2012, Jeff was a part of the team that performed construction management services for the new dormitory that was being built in the heart of Pitt’s campus, which is now known as Nordenberg Hall. These services included planning for demolition of the existing buildings, protecting nearby pedestrian and vehicular traffic, assembling preliminary schedules, and establishing preliminary budgets.

**Professional Growth**

Jeff graduated in spring 2012 with a B.S. in Civil and Environmental Engineering and a Construction Management certificate. After graduation, he began working full time at GAI Consultants, where he primarily worked on environmental permitting for oil and gas companies in Pennsylvania, West Virginia, and Ohio.

In June 2013 Jeff joined Arcadis to transition into the water resources field and get more involved in technical design projects. He has been with Arcadis for the past six and a half years and his technical skills have grown immensely as a result of the variety of projects with which he has been involved.

Some projects have been as small as bridge culvert replacements, small sewer or waterline replacements, and cured-in-place-pipe treatment for short sections of sewer. Others have been much larger-scale such as potable water booster station construction, sanitary sewer extension including construction of a lift station, and horizontal-directionally-drilling waterlines under the Allegheny River and Oil Creek. Additionally, he received his Professional Engineering license in spring 2017; he is certified in both Pennsylvania and Ohio.
ASCE Involvement
During fall 2012, Jeff began attending American Society of Civil Engineers Younger Member Forum (ASCE YMF) general body meetings. He has held various roles within YMF such as Employment Chair, Membership Chair, Treasurer, Fundraising Chair, and Social Chair. Within all of these roles, he has provided insight and innovative ideas to better the organization. He also seeks out other young engineers to join YMF and take on leadership roles.

Additional Volunteer/Outreach Activities
In addition to the activities identified in the preceding section, Jeff has volunteered for several volunteer and outreach opportunities over the last 7 years since graduating in 2012. In 2014 he volunteered as a co-chair for the Pitt freshman conference where he met with six teams of Pitt freshmen to provide comments on different drafts of their technical papers in preparation for the freshman conference at the end of their school year.

He volunteered as a Virtual City Judge in the 2018-2019 Future City Pittsburgh Region Competition, organized by the Carnegie Science Center of Pittsburgh. He has volunteered twice for the ASCE booth at the Carnegie Science Center during E-week, including in February 2019. He volunteered as a mentor for the inaugural year of the ASCE Mentorship Program during the 2018-2019 year; he has also volunteered to continue as a mentor for the 2019-2020 year.

Over the last several years, he has volunteered to sit on various panels for the ASCE YMF at different universities to answer questions from students, most recently in spring 2019 when he sat on a panel at Franciscan University of Steubenville.
2019 Civil Engineer of the Year

Michael Lichte, P.E., M.ASCE
Manager of Planning
Allegheny County Sanitary Authority (ALCOSAN)

Mr. Lichte graduated from Allegheny College with a Bachelor of Science Degree in Aquatic Environments. He earned a Master of Science in Civil Engineering from the University of Pittsburgh. He is a Registered Professional Engineer in the Commonwealth of Pennsylvania and is a member of American Society of Civil Engineers (ASCE) and Water Environment Federation (WEF). He has four published papers and 3 conference presentations.

Mike has over 25 years of Civil Engineering experience. His public service / government engineer career started 23 years ago in 1996 as Environmental Health Engineer at the Allegheny County Health Department (ACHD). Then he served Pittsburgh Water and Sewer Authority (PWSA) for nine years (1999-2008) in various roles including Director of Engineering and Construction and Acting Executive Director. Mike joined ALCOSAN in 2008 as Manager of Planning. His responsibilities include the management of the Preliminary Planning effort associated with the 2-billion-dollar Clean Water Plan. In addition, Mike oversees planning activities associated with the ACT 537 program and manages several interceptor repair and rehabilitation contracts.

At PWSA Mike served as Acting Executive Director during 2007-2008. In this position he directed operations of the PWSA for the City of Pittsburgh. This included management of a system of 83,000 customer accounts with revenues exceeding $120 million. He coordinated and participated with the Authority Board and Mayor’s Office on water and sewer issues facing the City. Mike oversaw day to day operations and customer service as well as ongoing O&M and capital projects. He oversaw
budgeting for ongoing operations as well as bond issuance for capital projects. He negotiated bulk water and sewer rates with customer municipalities. He also prepared for and conducted PWSA Board meetings.
ALCOSAN joins the American Society of Civil Engineers in honoring Michael Lichte, P.E.

2019 Civil Engineer of the Year for ASCE’s Pittsburgh Section

We are proud that Mike’s professional reputation and commitment to public service as Manager of Planning in ALCOSAN’s Regional Conveyance Division extend far beyond our Clean Water mission.
SMART Goals are:

- **Specific** (what? who?)
- **Measurable** (how? metric of expected results)
- **Attainable** (reasonable?)
- **Relevant** (why?)
- **Timed** (when?)

**ASCE Pittsburgh Section’s SMART Goals:**

1. Increase membership
   - **Objective:** 10% increase in membership by 2022
2. Increase government engineer memberships and participation
   - **Objective:** 10% increase in government engineer members and chairs by 2022
3. Energize students to attend ASCE Pittsburgh Section events and engage ASCE Pittsburgh YMF after graduation
   - **Objective:** 10% increase in attendance by Students at ASCE events and in Student Award Foundation (SAF) scholarships applications by 2022. Portion of this SMART Goal is being emphasized at the national level by ASCE.

If you are interested in joining this effort, please reach out to our Membership Chair, **Bill Trimbath** at btrimbath@collectiveefforts.com or President **Sam Shamsi** at sam.shamsi@gmail.com
Our Section By The Numbers

*We are more than just Pittsburgh - we represent about half the state (46%)!*

- Counties = 28
- Municipalities = 1,150
- Population = about 4-million
- About 1800 members
- About 3000 supporters (mailing list)
- CE Schools = 6 (Pitt, CMU, PP, UPJ, Geneva, Slippery Rock)
- Ancillary schools (Engineering / Environmental Management) = 14 (e.g., Chatham Univ.)
OFFICERS
President ................................................................. Sam Shamsi, P.E., Ph.D., F.ASCE
President Elect ........................................................... Jonathan Shimko
Past President ........................................................... Robert W. Dengler, P.E.
Executive Secretary ................................................... Karen Meuser, P.E.
Treasurer ................................................................. Michael Krepsik, P.E.

DIRECTORS
Lauren Dzigwa, P.E. (19-22) ....................................... Erin Feichtner, P.E. (18-20)
Djuna Gulliver, Ph.D. (17-20) .................................... Stephanie Chechak, P.E. (17-20)
Alma Rettinger, P.E. (18-21) ....................................... 

INSTITUTE CHAIRS
Architectural Engineering ............................................ OPEN
Construction ............................................................ OPEN
Environmental & Water Resources ............................. Ben Briston, P.E.
Geotechnical ............................................................. Matt Geary, P.E.
Structural .................................................................... John Kennelly, P.E.
Transportation Development ....................................... David DiGioia, P.E.

COMMITTEE CHAIRS
Budget ............................................................................ Michael Krepsik, P.E.
Communications ..................................................... Djuna Gulliver, Ph.D.
Continuing Education ............................................... Justin Brooks, E.I.T.
Diversity & Inclusion .................................................. Stephanie Chechak, P.E.
Educational Outreach ................................................. Brian Heinzl, P.E.
Engineers w/o Borders ................................................. Erin Feichtner, P.E.
History & Heritage ..................................................... Todd Wilson, P.E.
Government Relations ............................................... Greg Scott, P.E.
Membership ............................................................. Bill Trimbath, P.E.
Nominations ............................................................. Robert W. Dengler, P.E.
Programs ................................................................. Patrick Sullivan, P.E.
Publicity & Public Relations ....................................... Jodi Klebick
Section Awards ....................................................... Coreen Casadei, P.E.
Student Award Foundation ....................................... Terry L. Downs, P.E.
Sustainability ........................................................... Tom Batroney, P.E.
Younger Member Forum ........................................... Ashwin Ranna, P.E.
Blogmaster .............................................................. Djuna Gulliver, Ph.D.
Student Chapters

Faculty Advisors

University of Pittsburgh Student Chapter
Anthony Iannacchione, Ph.D.

University of Pittsburgh at Johnstown Student Club
Brian Houston, P.E.

Carnegie Mellon University Student Chapter
Jim Thompson, P.E., Ph.D.

Geneva College Student Club
OPEN

Point Park University Student Club
Dan Reed, Ph.D.

Indiana University of Pennsylvania
Sajad Hamidi, Ph.D.

Practitioner Advisors

University of Pittsburgh Student Chapter
Matt Gilfillan, E.I.T. and Jayne Marks

University of Pittsburgh at Johnstown Student Club
Stephanie Buncich, E.I.T., and Jesse Fresch

Carnegie Mellon University Student Chapter
Ashwin Ranna, and Sylvia Yunlin Sun, P.E.

Geneva College Student Club
Erin Feichtner, P.E.

Point Park University Student Club
Justin Brooks, E.I.T.

Media/Public Relations Consultant
Jodi Klebick
2018 ASCE Award Recipients

Civil Engineering Achievement
*Liberty Bridge Project*

Award of Merit (Project)
*Route 30 Landslide Remediation*

Civil Engineering Sustainability Award
*Centre & herron Green Stormwater Infrastructure Project*

Service to the People Award
*Sandie Egley - Beaver County Commissioner*

Journalism Award
*Ed Blazina - Pittsburgh Post-Gazette*

Professor of the Year
*Constantine (Costa) Samaras, PhD, LEED, FE*
Associate Professor, Dept. of Civil and Environmental Engineering
*Carnegie Mellon University*

Government Civil Engineer of the Year
*George Gardner, P.E.*
MSHA

Young Civil Engineer of the Year
*Sylvia Yunlin Sun, P.E.*
Joseph B. Fay Company

Civil Engineer of the Year
*Dr. David A. Dzombak, PhD, PE, BCEE, DWRE, NAE*
Carnegie Mellon University

Distinguished Civil Engineer
*William Trimbath, P.E.*
Collective Efforts, LLC
Our Mission

Providing essential value to our members, their careers, our partners, and the public by developing leadership, advancing technology, advocating lifelong learning, and promoting the profession.
Special Thanks

Carnegie Mellon University
Civil & Environmental Engineering

American Geotechnical & Environmental Services, Inc.

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ADDITIONAL SUPPORT

Keynote Speaker
Roger A. Eaton, P.E.

Event Program Design
Tara Kirkman
GAI Consultants, Inc.

Event Chairpersons
Patrick Sullivan, P.E.
Alma Rettinger, P.E.

Signage, Name Tags and Printing
Civil & Environmental Consultants, Inc.

ASCE Pittsburgh Section Statement

Our mission for the 2018-2019 year is to build and maintain:

• skills that ASCE members need to best meet the demands of a changing marketplace and the needs of the users of civil engineering services; and

• public awareness of the value of civil infrastructure in daily life, and to provide public policy makers the support necessary to pass legislation necessary to sustain the civil infrastructure that supports our economy and quality of life.

Thank you for attending and supporting ASCE!
Diversity Minute:

“Strength lies in differences, not in similarities.”

– Stephen Covey