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President's Message



For this newsletter's President's Message I wanted to focus on two recent key endeavors taken up by ASCE, Infrastructure Week and the release of the next Failure to Act report.

Infrastructure Week 2016 took place from May 16th – 23rd; this was an opportunity for members of ASCE to inform their State and Local officials of the need to invest and improve our infrastructure. Locally, the four sections of ASCE in Pennsylvania converged on the State Capitol on Tuesday, May 17th to discuss the key issues that our Society is currently monitoring in the Water Resources sector. Over 20 experts in this field were on hand to highlight the needs and make the case for increased funding. ASCE has identified specific priorities for discussion which include support for the stormwater utilities bill currently in the Senate, water infrastructure asset management principals and proposal of a state-authorized water infrastructure study to determine needs for drinking water, wastewater and stormwater. Over the past several years ASCE has participated in very productive meetings with our State legislators and are hopeful that they will take the necessary action to fund key infrastructure to improve our overall quality of life.

On May 10th, ASCE released the next version of Failure to Act: Closing the Infrastructure Investment Gap for America's Economic Future report. This report highlights the underinvestment in America's infrastructure and provides an economic context for the ASCE Report Card for America's Infrastructure. It is estimated that our Nation's current underinvestment will cost each U.S. family \$3400 per year over the next decade. The Failure to Act report assesses how the Nation's failure to improve its infrastructure systems affects economic performance. The 2016 study updates the data and projections from previous studies in five sectors: surface transportation, water & wastewater, electricity, airports and inland waterways & marine port infrastructure. The most significant gap is, not surprisingly, in the transportation sector where an estimated additional \$1 trillion is needed during the next decade. The full report can be accessed by clicking the following link: <http://www.asce.org/failuretoact/>. The previous Failure to Act report was released in 2013 and the initial report was released in 2011.

The Section does not currently have any technical dinner meetings scheduled for the summer; however, we have several upcoming social and networking events whose dates can be found at the end of this newsletter and on our website. Hope to see you at one of these events!

Sincerely,
Christopher W. Smith, P.E., M.ASCE
2015-2016 Central PA Section President

WELCOME NEW MEMBERS

Ricky Patrick, P.E.
Brian Naberezny, PLS
Calvin Bush
Ryan Rhoades, P.E.
Eric Keller, P.E.
Jennifer Gutshall, P.E.
Maia Dupes
Alexander Bellido
James Hurlburt, P.E.

Central PA Section Joins the Central PA Chapter of the WTS for Joint Luncheon

Submitted by: Christopher Smith, P.E., M.ASCE, Section President

On Tuesday March 29th, members of the Central PA Section joined President Crystalann Deardorf and the Central PA Chapter of the Women in Transportation Seminar for a luncheon and presentation at the Radisson in Camp Hill; over 80 were in attendance. The luncheon featured a presentation pertaining to the engineering challenges and public impact as a result of the US 11/15 Rock Slope Safety Improvement project immediately north of Marysville.

We were delighted to host Mike Keiser, P.E., PennDOT District 8-0 District Executive, and Mark Malhenzie, P.E., Project Manager, who presented several interesting aspects of this project. The project started May 1st and is expected to be completed in 90 days. Due to the narrow work area, PennDOT has had to close this portion of US Route 11/15 and traffic normally using this route has been detoured onto US Route 322.



Pictured: Mike Keiser and Mark Malhenzie

April Dinner Meeting

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

On Wednesday, April 13th, over 50 attendees gathered to learn about the "The 'Drone' Revolution" presented by Wesley J. Oliphant, PE, AWS-CWI, F.SEI, F.ASCE, Principal and Chief Technology Officer of ReliaPOLE Inspection Services Company, Inc. / Advanced Aerial Inspection Resources, Inc.

This very informative presentation explained how the use of unmanned aerial systems, UAS's (or "drones") promises significant economical improvements in the inspection of critical civil infrastructure - highway bridges, buildings, dams, oil and gas pipelines, offshore oil and gas platforms, electrical transmission and distribution lines, and railroad tracks and bridges.

Mr. Oliphant provided case studies of his firm's experience inspecting high voltage electrical transmission lines and renewable energy facilities using "drone" technology. He showed how this technology is clearly safer, less expensive, and provides far more detailed and actionable data than traditional methods used for these inspections. He believes that the rapid development of new sensors and camera payload systems will even further transform the information we are able to obtain from these devices.

A Q&A session followed the presentation. Based on the number of questions asked, it was obvious that the local Civil Engineering community has great interest in this emerging technology and was excited to hear how Mr. Oliphant's firm is currently using this technology.



Section Board of Directors Installation Ceremony for 2016-2017

Submitted by: Christopher Smith, P.E., M.ASCE, Section President 2015-2016



Mr. Christopher Menna, ASCE Region 2 Director, was in attendance at the April Dinner meeting to officiate the installation of the 2016-2017 Board of Directors; 16 members participated in the installation. Region 2 Governors Jack Raudenbush from the Central PA Section and Carol Martsolf from the Philadelphia Section were also present. The installation ceremony included a gift presentation to outgoing Section President Christopher Smith by incoming Section President Joe Eberly.

Earlier in the day, several members of the Central PA Section leadership and Region 2 leadership attended a meet and greet with the Messiah College Student Chapter and Faculty Advisor Dr. Brian Swartz. The Section leadership in attendance included President Christopher Smith, Director of Student Activities Christopher Beauregard, Past President Laconie

Jackson and Practitioner Advisor Jon Winger. Region 2 Director Christopher Menna as well as Region 2 Governor Carol Martsolf were also in attendance. Several members of the Student Chapter provided an update of their Collaboratory projects which are engineering related service projects being conducted all over the world. These projects ranged from construction of pedestrian bridges to installation of well water monitoring systems. At the conclusion of the short presentations, a question and answer section ensued with topics ranging from job pursuit advice to "what aspect of our job as civil engineers gets us out of bed in the morning?"

Hundreds Attend National Fly-In

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

On March 15th and 16th ASCE members across the country met in Washington D.C. for the annual ASCE Legislative Fly-In. The event brought together 200+ attendees, representing all 50 states, to meet with Legislative officials and their staffers. Their purpose is to educate our senators and representatives on civil engineering issues and lobbying for pending legislation in Congress related to civil engineering. This intensive two-day event provides participants with an inside look at the political process of our senators and representatives on Capitol Hill.



Fly-In attendees are briefed before departure to Capitol Hill

Attendees faced a full agenda during their visit. The first day was dedicated to briefings on the latest civil engineering issues pending in Congress. A special younger member's session

was held that morning with the intent of educating younger members about ASCE Government Relations and providing them with the tools to have a successful experience at the Fly-In and continue with outreach activities back at home. On the second day, participants visited their state senators and representatives on Capitol Hill to educate them and lobby on these issues.



The sun following a day of lobbying by ASCE members

Specific talking points were determined ahead of the event to create a unified message to take to Congress. The main issues ASCE members discussed on the Hill this year included: the Federal Aviation Administration bill reauthorization, passage of a Water

Resources Development Act so that it is on a two-year cycle, and the importance of increased investment for water infrastructure.

SECTION GEOTECHNICAL NEWS

Submitted by: Thomas Imholte, P.E., Geotechnical Co-Chair



**GEO-
INSTITUTE**

Susquehanna
Valley Chapter

The Geotechnical Committee continues to remain active. We are pleased to announce that we are now an official chapter of the ASCE Geo-Institute (GI). You can find us listed on the ASCE GI website under the name Susquehanna Valley Geo-Institute (SVGI) <http://chapters.geoinstitute.org>. We are actively recruiting geotechnical professionals from the Central PA Section to join the SVGI to help increase the scope of the events that we provide and plan more diverse events. If you are interested in getting involved please contact Paul Lewis plewis@GFNET.com or Tom Imholte timholte@navarrowright.com.

On March 28, 2016 the Geotechnical Committee again hosted a free webinar on the strengthening and underpinning of foundations at Gannett Fleming's Training Room at their Camp Hill Office. These free webinars are a way for the Central Pennsylvania Section to provide value to our membership. The thirty or so attendees earned 1.5 Professional Development Hours to help with their professional continuing education requirements.

Mr. Alexander Newman, P.E. began with an overview of the reasons foundations require strengthening. After explaining the basic philosophy of foundation strengthening and underpinning, Mr. Newman examined the available approaches in detail. The first one is an often overlooked but typically cost-effective method of adding structural supports in lieu of strengthening existing foundations. Next, Mr. Newman discussed shoring and replacement of foundations with larger or deeper ones. Following that, Mr. Newman discussed enlarging footings and ground improvement options.



Member of Central PA Section is Recipient of 2016 Hans Albert Einstein Award

By: Christopher Smith, P.E., M.ASCE, Section President 2015-2016

Each year a committee comprised of members from the Coasts, Oceans, Ports, Rivers Institute and the Environmental & Water Resources Institute is tasked with selecting an ASCE member to receive the Hans Albert Einstein Award. This award was created to honor Hans Albert Einstein for his outstanding contributions to the engineering profession and his advancements in the areas of erosion control, sedimentation and alluvial waterways.

Since its inception by the Societies' Board of Direction in 1988, this distinguished award has been presented to a member of the Society who has made significant contribution to the engineering profession in the areas of erosion control, sedimentation and/or waterway development either in teaching, research, planning, design or management.

Dr. Peggy A. Johnson is the recipient of the 2016 Hans Albert Einstein Award. Dr. Johnson is a Professor of Civil Engineering at The Pennsylvania State University. She conducts research in the areas of hydraulic engineering, bridge scour, resilient infrastructure, stream



Joe Eberly, 2016-2017 Section President, Dr. Peggy Johnson, Christopher Smith, 2015-2016 Section President

restoration, reliability analyses, and river

Dr. Johnson is a Past-President and Fellow of the ASCE Environmental and Water Resources Institute (EWRI). Dr. Johnson has received a number of awards, including recently the ASCE-EWRI Outstanding Woman of the Year award, the Penn State Mentoring award, Lily teaching award, National Science Foundation Young Investigator award and, in 1995, the National Science Foundation Presidential Faculty Fellow award.

Dr. Johnson has recently completed a National Cooperative Highway Research Program (otherwise known as NCHRP) on Risk-Based Approach for Bridge Scour Prediction. She has published numerous papers in peer-reviewed journals on bridge scour, stream restoration, uncertainty in hydraulics, bridge scour, and stream restoration, and the probability of bridge failure due to scour.

She is currently working on vulnerability analyses and risk matrices for bridge crossings. Dr. Johnson's stream stability assessment method for bridge-stream intersections is incorporated as part of the FHWA's manual on stream stability at bridges (HEC-20). Dr. Johnson currently serves as the Chair of the Maryland State Highway Hydraulics Panel, Chair of the ASCE Institute Advisory Committee, and member of the ASCE Resilient Infrastructure Division, the Social Science, Policy, Economics, Education and Decision Committee, and the ASCE-EWRI Education and Research Council.

The Award committee selected Dr. Johnson for this honor in part due to her substantial contributions in the use of sediment transport for evaluation and design of in-line control structures and stream restoration projects. The committee also noted her work to lay the foundation for the use of Uncertainty and Risk Management for scour analyses.

Dr. Johnson will officially receive this award at the World Environmental and Water Resources Congress in West Palm Beach, Florida at the end of May.

Central Pennsylvania Section Member Spotlight

By: Thomas Imholte, P.E., Geotechnical Co-Chair



Name: Paul Lewis

Company, Position and brief job description: Gannett Fleming, Senior Vice-President, Geotechnical, Dams and Hydraulics Business Line Leader. Paul provides management oversight for 165 engineers and scientists with a focus on developing technical talent, advancing industry-transforming innovation, and maintaining technical quality within the firm's U.S. and international offices.

Education: BSCE from West Virginia University

Family: My wife Dona and I have four children, Jessie, Bill, Joe, and Connor.

How long have you been a member of the ASCE Central Pennsylvania (PA) Section? 22 years

What was the experience or motivating factor that compelled you to get involved with the Central PA Section? Was there someone who influenced you to join? My supervisors / mentors, Jim Langer and Jack Diviney were dedicated members and very involved in ASCE. I wanted to follow their example.

List any Central PA Section positions held or committees you have been a part of: Treasurer; Co-Chair of Geotechnical Technical

Committee

What is the biggest challenge you have faced in business and how did you overcome it? Staff reductions. I really care about our staff which makes separation emotionally draining. Preparing for and having an open personal conversation with them.

What do you do for fun in your spare time? I like the outdoors. Hunting, fishing and hiking.

What are you passionate about? Teamwork. Helping everyone on the team reach their full potential and providing best value to our clients.

If someone wrote a biography about you, what do you think the Title should be? Paul Lewis, an open and genuine person.

What 2 business tips can you share with others? Develop a relationship with your client by listening and being responsive to their needs. Provide exceptional and value added service and never lose a valued client.

If you could spend the day with one celebrity, who would it be and why? I'm not really big on "celebrities". I would pick a business leader. Maybe Warren Buffet or Bill Gates. I guess you could consider them celebrities?

What is your dream vacation spot? Canoeing, camping and fishing in Algonquin Park, Ontario, Canada

**New Menu
Selections to
Celebrate our 15th
Annual Picnic!**

Location: Knoebels Amusement Park
Elysburg, PA (See 2nd Page for Directions)

When: Saturday, July 23, 2016 (Rain or Shine)

Who: ASCE members and immediate family or guest.
Additional guests may attend @ a cost of \$10.00 each (4 & under \$5 each).

Cost: **FREE !!!**
Includes \$10 worth of Ride & Game tickets and lunch (admission is free and additional ride tickets may be purchased at the park). Tickets from last year's picnic are still valid.

Ride & Meal tickets distributed 11:00 AM to 12:30 PM at **Pavilion A**

Lunch: Served at **12:30 PM** in Pavilion A and includes:
1/4 BBQ Chicken, Hot Dog, Macaroni & Cheese, Cole Slaw, Ice Cream, Iced Tea, and Soda. **Arrive by 12:30 to ensure you receive lunch!!**

To Do: Over 50 amusement rides, games, miniature golf, swimming pool (bring suits and towels if desired), restaurants, and shops.

Park Hours: 11:00 AM - 10:00 PM; Call (570) 672-9555 for Campground Reservations

More Information: www.knoebels.com

Questions: Contact Rachel Govelovich, rgovelovich@gfnet.com (717) 763-7212 x2629

Cut here

Detach and mail or email to:

Rachel Govelovich, Gannett Fleming, Inc., PO Box 67100, Harrisburg, PA 17106; rgovelovich@gfnet.com

DUE BY WEDNESDAY, JULY 6, 2016

Name: _____

Phone Number: _____

Address: _____

Email: _____

No. Adults & Children over 4 years old: _____

No. Children 4 years old and under: _____

No. Additional Guests over 4 years old: @ \$10 each: \$ _____

No. Additional Guests 4 years & under: @ \$5 each: \$ _____

Checks Payable to: ASCE Central PA Section

TOTAL Cost (\$): \$ _____

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Upcoming Events

Event	Date	Location
HSS Design with the Latest Codes/Material Specifications	June 3, 2016	Gannett Fleming West Building
Annual Knoebels Picnic	July 23, 2016	Knoebels Amusement Park
ASHE/ASCE/WTS Joint Picnic & Casino Night	August 26, 2016	Details to come
29 th Central PA Geotechnical Conference	January 25, 2017	Hershey, PA

Please visit <http://sections.asce.org/central-pennsylvania/> for more information

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@aegroup-llc.com.