

## IN THIS ISSUE

President's Message..... 1

Section Member Achieves the 2018 Civil Engineering History and Heritage Award ..... 1

April Dinner Meeting ..... 2

Section Members Attend 2018 Multi-region Leadership Conference ..... 3

GeoInstitute (G-I) Susquehanna Valley Chapter News ..... 4

Dream Big: Engineering our World..... 5

Annual Senators Baseball Game and Picnic ..... 5

Central Pennsylvania Section News ..... 6

Sponsors ..... 10

Events..... 12

Job Postings..... 12

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## President's Message



Happy Summer. Hope you are enjoying the summer and spending time outside.

Thank you to all members of the Board of Directors and all volunteers for making 2017 - 2018 ASCE Central PA a great success. We had many tours, training sessions, dinner meetings and fun this year.

My term as president is complete. I would like to introduce our new President of ASCE Central PA, Kerry Henneberger. Kerry has served in many positions within ASCE Central PA and brings many ideas and enthusiasm. When you see Kerry, please congratulate her.

The 2018-2019 year looks to be very exciting. In November, the PA State Council will unveil the 2018 State Report Card. Currently the report card is in review. The release date will be sometime after the election day.

ASCE National Convention will be held in Denver Colorado on October 12 – 15, 2018. As always this is a great event to attend with many networking opportunities and also opportunities to get PDHs. Our own Michelle Madzellan will continue to be a Committee member of the National Convention Technical Program Subcommittee (TPS) again this year.

If you would like to get involved with the Board of Directors of ASCE Central PA, there are current positions available (see page 6).

Thank you for a great year.  
Gary Garbacik  
Immediate Past President ASCE Central PA

## Section Member Achieves the 2018 Civil Engineering History and Heritage Award

ASCE Central Pennsylvania Section would like to Congratulate Dr. Thomas E. Boothby, P.h.D. P.E. for winning the 2018 Civil Engineering History and Heritage Award. His selection for this award is based on his unique perspective as both engineer and architect, to the assessment, evaluation, and preservation of the history and heritage of civil engineering structures, while instilling interest and appreciation for the value of heritage among future engineers. Dr. Boothby is a professor at Penn State.

WELCOME NEW MEMBERS

Professional:

Rhen Bentrsl  
Paul Shaefer, P.E.  
Nikolas Woods  
David Gaffney, E.I.T.  
Joseph Plaza  
Matthew Kambic, E.I.T.  
David Schreck  
Lauren McPhillips

Students:

Elnaz Kermani  
Rodrigo Villafuerte  
Grace Ports  
William Dam  
John Thompson  
Cayden Godsey  
Sudheer Sudhakaran Prabhu  
Andrew Stanton  
Elena Gowdy  
Carol Chen

April Dinner Meeting

*Submitted By: Paul Lewis, P.E., Geotechnical Group Co-Chair*

The April dinner meeting was held on Wednesday, April 18<sup>th</sup> at the Park Inn. We were pleased have Mr. John Casana, ASCE Director and Chair Region 2 Board of Governors, in attendance to provide insights on ASCE Regional activities. He also presided over the induction of our Board of Directors and Officers for the upcoming year. Special congratulations and thank you to all of our past and incoming Board Members and Officers for your dedication and service to ASCE.

Our dinner speaker was Mr. David Williams, P.E. PLS, Mining Engineering Consultant for the Department of Environmental Protection's Pottsville Mine Safety Office. He was assisted in his presentation by Mr. Richard Tallman, Civil Engineer (General). Mr. Williams discussed how anthracite coal mines are developed and how to interpret mine maps, the Map Scanning Project conducted by the DEP, and the importance of reviewing historic mine maps and the potential impacts of historic mining on general civil engineering projects. Several examples of mine subsidence impacts on civil projects were presented.



Photo 1: Mr. David Williams



Photo 2 Left to Right; Paul Lewis, Mr. David Williams, Mr. Richard Tallman

## Section Members Attend 2018 Multi-region Leadership Conference

*Submitted By: Kerry Henneberger, P.E., Section President-Elect*

The ASCE Multi-Region Leadership Conference (MRLC) was held on February 9<sup>th</sup> and 10<sup>th</sup> in Buffalo, NY. This annual leadership training event brought together current and rising leaders from the numerous Sections, Branches, Younger Member Groups, and Student Organizations 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 Buffalo Branch of the New York Section.



MRLC attendees from the Central PA Section, and Pennsylvania State University - Harrisburg

Organized under the umbrella of the MRLC, three major Society components met concurrently, as well as individually, during this event: the Workshop for Section and Branch Leaders (WSBL), the Eastern Regional Younger Member Council (ERYMC), and the Workshops for Student Chapter Leaders (WSCL). Section attendees included Bill Kingston, P.E., Younger Member Group President, Duke Slifko, P.E., Section Treasurer, Kerry Henneberger, P.E., Section President-Elect, and Jack Raudenbush, P.E., Region 2 Governor. Representatives from Pennsylvania State University – University Park and Harrisburg campuses also represented Central Pennsylvania at the WSCL.

MRLC attendees from the Central PA Section, and Pennsylvania State University - Harrisburg



Enjoying the Ice Skating Social at Canalside.

Over the course of the event, Section leadership attended lectures presented by high ranking ASCE National staff (including current President Kristina L. Swallow, P.E., ENV SP, President-Elect Robin A. Kemper, P.E., LEED AP, and Executive Director Thomas W. Smith, ENV SP CAE) and Regional leadership on topics pertaining to professional and leadership development. A social event was held at **the Pearl St. Grill and attendees were able to experience Buffalo's** wintry temperatures with ice skating and curling at Canalside.

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 sunny Orlando on January 25<sup>th</sup>-26<sup>th</sup>.**



## Geolnstitute (G-I) Susquehanna Valley Chapter News

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

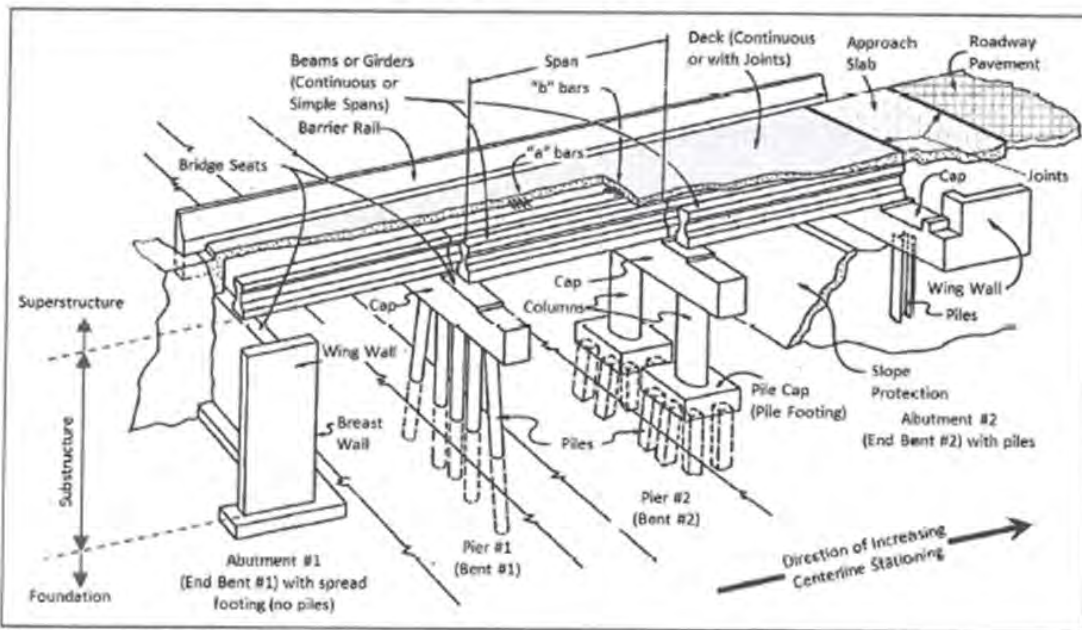
On March 26, 2018 the G-I Susquehanna Valley Chapter hosted a webinar on Effect of Foundation Movements on Bridge Structures. Nearly 30 engineers and geologists attended the event that was held at the American Engineers Group's Harrisburg, PA Office. The presenter was Naresh Samtani, Ph.D, P.E., D. GE, F. ASCE, President of NCS GeoResources, LLC.



Mr. Samtani's presentation was very informative with extensive references for further study if desired by the attendees. He began with the basics as illustrated below to get everyone off on the right foot.

Mr. Samtani then discussed the modes of foundation movements such as vertical, lateral; rotational and torsional. He stressed that there are relevant stages (construction points) for determining the impact that foundation movements have on the bridge superstructure. These relevant stages include: load after foundation construction; load after substructure construction; load after superstructure construction; and load after wearing course construction. He noted that the percentage of all foundation movements between the superstructure construction and the wearing course construction is generally between 25 to 75 percent of the total foundation movements. He recommends that the foundation movements be calculated for each relevant stage to provide a complete picture of the foundation movements through the life of the bridge.

## Typical Bridge Components and Definitions



Reference: Modified from an Iowa DOT Website Sketch

Mr. Samtani's presentation continued with a lengthy discussion on how to determine the foundation movements and stressed that horizontal movements are typically more damaging than vertical movements. The impacts of the various foundation movements were discussed such as abutment tilt and approach slab "bumps" and how to incorporate foundation movements into bridge design. He noted that there are proposed changes to the AASHTO LRFD Design Standards that will utilize the construction-point concept to better refine foundation movements and hopefully make the use of shallow foundations more feasible and thereby making bridge construction more cost effective.

## Dream Big: Engineering our World

*Submitted By: Gary Garbacik, P.E., Section President*

Many members and families have had the exciting opportunity to view the Dream Big: Engineering Our World movie at the IMAX theaters over the last year. BIG NEWS the movie is being released on NETFLIX on July 1, 2018. If you have not seen it - now is the time. Please add it to your queue and watch it to help it 'trend' on NETFLIX. As it 'trends' it will pop up more frequently as an option for viewers.



## Annual Senators Baseball Game and Picnic

On June 1, 2018, the ASCE Central Pennsylvania Section held its annual baseball game and Picnic. The night out featured the Portland Sea Dogs Vs. the Harrisburg Senators and was an exciting game. The game included extra-innings and a walk-off win by the Senators with a final score of 4 to 5. Members were treated to food and fireworks during and after the game. Children enjoyed the fun zone.



## Central Pennsylvania Section News

### Central Pennsylvania Section Memorabilia

The Central Pennsylvania Section will be celebrating 60 year of service this upcoming year. For this anniversary, the Section is look for past memorabilia from its members. The Section plans to share these items on our social media platforms. Any individual with pictures, newsletters, etc from previous Section events are encouraged to forward them to Kerry Henneberger ([khenneberger@larsondesigngroup.com](mailto:khenneberger@larsondesigngroup.com)).

### Support the Central PA Section- Volunteer

The ASCE Central PA Section Board has the following open positions and are looking for interested individuals to fill them. If you are interested in any of the below positions, please contact Gary Garbacik ([ggarbacik@gfnet.com](mailto:ggarbacik@gfnet.com)) or Kerry Henneberger ([khenneberger@larsondesigngroup.com](mailto:khenneberger@larsondesigngroup.com)).

#### Open Positions:

Construction Management Technical Group Chair  
Bucknell University Practitioner (two openings)  
Legislative Committee Chair  
Awards Committee Chair

### Upcoming Corporate Sponsorship Drive

The Central Pennsylvania Section is looking for Corporate sponsorship for the 2018-2019 year. This will include company logos being displayed at the monthly dinner meetings and in the newsletters. The newsletter **is distributed to all ASCE members in the Section's 19-county area**, from the Maryland line to the New York state border. Included are the metropolitan areas of Lancaster, York, Harrisburg, Lebanon, Sunbury, Williamsport, Lewistown, and State College. The distribution averages over 1,000 copies per issue.

It also allows business to post job opportunities on the section website and newsletter. In addition, press releases concerning company news and announcements can also be submitted for inclusion on the website and newsletter.





**WELCOME**  
**Picnic & Casino Night**



**WHERE:**

Lower Allen Township  
Park Barn  
4070 Lisburn Road  
Mechanicsburg PA 17055

**PRICE:**

\$40 per person for  
ASHE, ASCE, and WTS Members  
AND their guests  
\$45 per person for all others

**WHEN:**

Friday, August 24, 2018  
Social and Golf Chipping Contest:  
4:30 to 6:00  
Dinner: 6:00 to 7:00  
Casino Night: 7:00 to 8:30  
Prizes: 8:30 to 9:00

**PRIZES:**

Fitbit, Hershey Spa  
Gift Card And More!!

**BUFFET:**

Hard Shell Crabs, Steamed Shrimp & Clams, Hot Dogs, Hamburgers, Potato Salad,  
Baked Beans, Tossed Salad with Dressings Rolls, Ice Cream Sundae Bar

Beer/Soda/Water

**Please RSVP by August 16, 2018**

**[CLICK HERE](#) for online registration OR Fill out and mail the form below**

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Email: \_\_\_\_\_

No. Guests: \_\_\_\_\_ Name(s): \_\_\_\_\_

Check Affiliation(s):  ASHE  ASCE  WTS

Amount Enclosed: \_\_\_\_\_

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**Accommodations:**

- Hotel reservations are to be made directly with the Hershey Lodge.
- Be sure to mention you are attending the PA Geotechnical Conference to receive the reduced seminar rate of \$165 single or double.
- Cutoff date for special seminar rate is October 1, 2018.
- There are a limited number of rooms available. Please register early.

**Speakers**

Dr. Robert Holtz, Ph.D., P.E., D.GE – University of Washington  
 Robert Koerner, Ph.D. P.E. NAE, D.GE – Geosynthetic Institute  
 Michael Anderson - U.S. Army Corps of Engineers  
 Rick Deschamps, P.E. - Nicholson Construction  
 David Elton, Ph.D., P.E. – Auburn University  
 Benjamin Ferguson, P.E. – EQT Midstream  
 Milton Gomez, M.S. – Aerix Industries  
 Russell Green, Ph.D., P.E. – Virginia Tech  
 Joe Krupansky, P.G. – Gannett Fleming, Inc.  
 Sebastian Lobo-Guerrero, Ph.D., P.E.- American Geotechnical &  
 Environmental Services, Inc.  
 Michael McGuire, Ph.D., P.E. – Lafayette College  
 Silas Nicholas, P.E. – Federal Highway Administration  
 Kerry Petrasic, P.E. - Pennsylvania Dept. of Transportation  
 Travis Shoemaker - Lafayette College  
 John Turner, Ph.D., P.E., P.G., D.GE - Dan Brown and Associates

**Registration**

**Early Bird:**            Displayer: \$1,200  
                                   Individual: \$500

**After 9/28/18**        Displayer: \$1,500  
                                   Individual: \$650

**Government Rate:** \$175  
**Student Rate:**        \$25

\* Displayer Registration includes 2 attendees; extra attendees are \$200 each. Display area is 8'X10' space suitable for large Skyline type display frame or table top, table, 2 chairs and electric.

*Opportunity to obtain up to 12 PDH's*

For a program schedule and registration details, please visit our website:  
<http://www.central-pa.asce-geotech.org>

**Presented by:**







# **ASCE** AMERICAN SOCIETY OF CIVIL ENGINEERS

## **ASCE Region 2 Assembly**

**Saturday, November 17th, 2018**

**George Mason University, Fairfax, Virginia**

All Sections, Branches, Younger Member Forums, Student Chapters, Faculty Advisers, and Practitioner Advisers are strongly encouraged to attend the 2018 Region 2 Assembly.

The 2018 Region 2 Assembly theme will focus on **Leadership** and **Professional Development** through presentations and activities. This event offers a chance for interaction between students, professors, practitioners, and job employers/recruiters the opportunity to grow professionally and to learn more about what ASCE can do for you.

Please plan on sending a representative or emerging leaders from your section to the Assembly. We encourage the sections to mentor new leadership from your section to the assembly and younger member groups and students chapters at this event.



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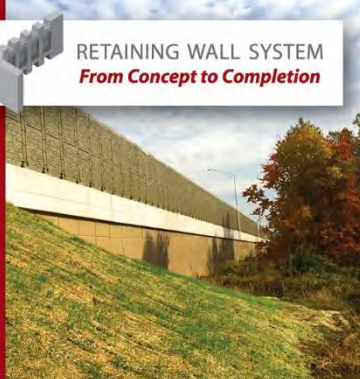
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## Events

| Event   | Date                           | Location   |
|---|--------------------------------|--|
| ASHE/ASCE/WTS Picnic & Casino Night                 | August 24, 2018                | Lower Allen Township Park Barn, Mechanicsburg, PA    |
| September Dinner Meeting                            | September 12, 2018             | Park Inn, Mechanicsburg, PA                          |
| 2018 ASCE National Convention                       | October 12-15, 2018            | Denver, CO   |
| October Dinner Meeting                              | October 10, 2018               | Pennsylvania College of Technology, Williamsport, PA |
| 30 <sup>th</sup> Central PA Geotechnical Conference | October 31 to November 2, 2018 | Hershey, PA  |
| ASCE 2018 Region 2 Assembly                         | November 17, 2018              | George Mason University, VA                          |

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

## Job Postings

C.S. Davidson, Inc. – [Municipal Engineer: Project Manager](#)

Jobs postings are included on the Section Website at <http://sections.asce.org/central-pennsylvania/node/10>

### Address Change? Questions About ASCE?

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

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

Questions about the ASCE Central PA Section Newsletter? Send an email to Jason Taylor, Newsletter Editor, at [jtaylor@sqcivil.com](mailto:jtaylor@sqcivil.com).