



CROSS SECTION



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Section Officers 2014-2015

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Marc Garfield, P.E.

David Mikec, P.E.

Maggie Moore, P.E.

2 YEAR DIRECTORS

John Lepri, P.E.

Chuck Nash, P.E.

John Nicholson, P.E.

Chris Prisk, P.E., P.T.O.E.

3 YEAR DIRECTORS

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Dave Williams, P.E.

Jason Esser, P.E.

Jamie Unger, E.I.T.

IMMEDIATE PAST PRESIDENT

George Zboyovsky, P.E.

REGIONAL REPRESENTATIVE

Brian Krul, P.E., P.T.O.E.



ASHE
AMERICAN SOCIETY OF HIGHWAY ENGINEERS
PITTSBURGH SECTION

**PITTSBURGH SECTION
DINNER MEETING**

FEBRUARY 11, 2015

With

Robert Latham, CAE



**Executive Vice President,
Associated Pennsylvania Contractors (APC)**

**Presenting on current legislative issues and upcoming
transportation initiatives in Pennsylvania**

The Dinner Meeting will be held at:

Engineers' Society of Western PA

337 Fourth Avenue, Pittsburgh, PA 15222

RSVP by February 6, 2015

Contact John Nicholson:

J.nicholson@gaiconsultants.com

(412) 476-2000 ext. 1730

NO SHOWS WILL BE INVOICED

5:30 PM—Social Hour

6:30 PM—Dinner

7:30 PM—Presentation

Registration

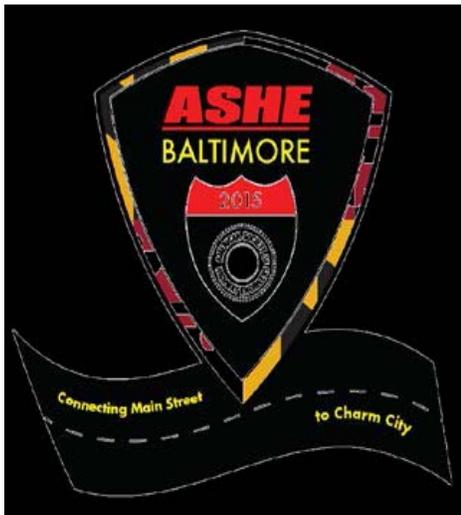
\$40 Members

\$50 Non-Members

\$20 Public Employees

****** Due to venue policies and popularity of our dinner meetings, we cannot accept walk-ins. Please register prior to the event or you will be turned away at the door.***

VOLUNTEERS NEEDED



Are you planning on attending the ASHE National Conference in Baltimore this year?

If you will be in Baltimore, May 27th thru the 31st, for the National Conference, please help us to promote the 2016 Conference that will be held in Pittsburgh!

The Public Relations Committee is seeking volunteers to work at a promotional exhibit booth during the conference in Baltimore. Your role will be to meet other ASHE members, promote the Pittsburgh Section, encourage attendance at the 2016 Conference, and pass out promotional items.

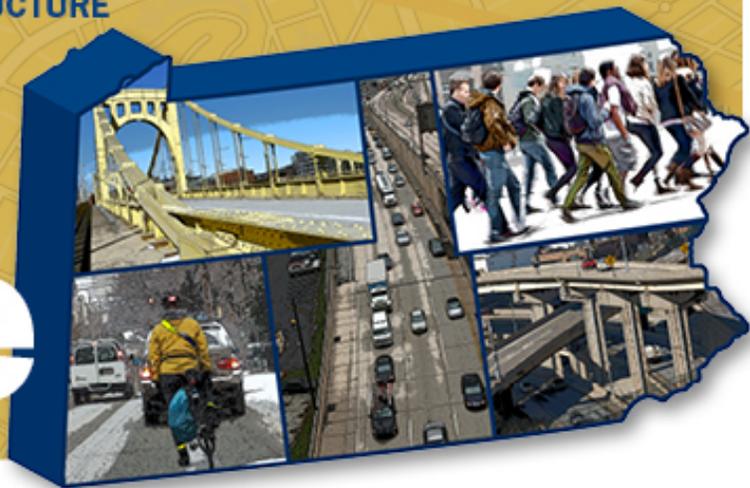
2016 PITTSBURGH

IF YOU'RE GOING TO BALTIMORE, CONTACT KATHRYN POWER, CHAIR OF THE PR COMMITTEE FOR THE 2016 CONFERENCE.

KPOWER@PA.GOV OR (412) 429-4966

CENTER FOR SUSTAINABLE
TRANSPORTATION INFRASTRUCTURE

save
the
date



2015 TRANSPORTATION FORUM

Research & Education in Transportation Engineering

Wednesday

March 18, 2015

8:30 a.m. – 3:00 p.m.

8:30 – 9:00 a.m. *Coffee and networking*

9:00 a.m. – 3:00 p.m. *Program*

University Club, *Ballroom B*
123 University Place
Pittsburgh PA 15260

**Contact Monica Bell at ENGRevents@engr.pitt.edu
for more information.**

PRESIDENT'S MESSAGE

Kathryn E. Power, P.E.



It's 2015 and ASHE Pittsburgh is celebrating its 49th birthday. Unlike the rest of us, the Section is actually looking forward to the big 5-0, as we will be celebrating the milestone by hosting the 2016 National Conference.

This edition of the 'President's Message' is going to be short and sweet...the opposite of winter, which can't end soon enough! I'll use this opportunity to share some interesting ASHE Pittsburgh facts and photos from the holiday social event.

Congratulations to Brian Krul, who has been nominated to serve as a Northeast Region Director on next year's ASHE National Board.

The Holiday Party in December was a great night, so we'll do it again next year. Thank you to Maggie for taking the lead on planning and hosting the party!



Past National Directors from our Section:

John DeRoss
Kevin Duris
Anthony Gaeta
Albert Kozel, Jr.
Gerald J. Pitzer
G. Michael Tiani
James M. Weaver, Sr.
Lisle Williams

Did you know that 5 ASHE National Presidents have come from our Section?

James M. Weaver, Sr. - 1973-74
John F. DeRoss, P.E. - 1976-77
G. Michael Tiani - 1986-87
Albert Kozel, Jr. P.E. - 1992-93
Kevin E. Duris, P.E. - 2008-09

The Pittsburgh Section has hosted the second-most National Conferences (we've had five). The only Section with more conferences is the Harrisburg Section, where the ASHE organization was founded.

ASHE Pittsburgh is the largest Section with 576 current members!



February ASHE Social

Beat the cold and get Fired up! Pens vs Senators!!

- * Bar Louie-Station Square
- * February 12th @ 6PM
- * Cash Bar
- * Appetizers provided



- Young Members - \$5 Donation!
- Others - \$10 Donation!!
- FREE - if you join ASHE onsite!!!



RSVP by Feb. 9th to John Nicholson -
j.nicholson@gaiconsultants.com



Congratulations!

Jason Esser & his wife, Leah, have a new addition to their family! Rigby Grae Esser was born on December 11, 2014. Congratulations to the Esser Family!



Anyone who has any information about members of ASHE, such as births, deaths, marriages, registrations, etc. are asked to email the information to Ron Todorowski at forthepr@yahoo.com if they would like the information to be listed in the next Cross Section Newsletter.

Featured Century Club Members

Whitman, Requardt & Associates, LLP
300 Seven Fields Blvd., Suite 130
Seven Fields, PA 16046

Phone: 724.779.7940

Contact: Eric C. Meyer, P.E.
Email: emeyer@wrallp.com

Principals: Joseph S. Makar, P.E., Walter P. Miller, P.E., David McCormick, Dennis J. Hasson, P.E.

Type of work performed: Engineering Services—Full Service Consulting Firm. Design Services provided: Transportation Engineering, Traffic Engineering, Bridge Design, Structure Design, Urban Planning, Architectural Services, Water/Wastewater and Design-Build Services.



HDR
11 Stanwix Street, Suite 800
Pittsburgh, PA 15222

Phone: 412.497.6000

Contact: Jeffrey P. Hans, P.E.
Email: Jeff.Hans@hdrinc.com

Principals: Michael P. Crall, James D. Carnahan, Jeffrey P. Hans

Type of work performed: Engineering Services including highways, bridges, geotechnical, traffic, planning, design and construction management and environmental



Gibson-Thomas Engineering Co., Inc.
1004 Ligonier Street
Latrobe, PA 15650

Phone: 724.539.8562

Contact: Eric P. Robl, P.E.
Email: eric.robl@gibson-thomas.com

Principals: Mark J. Gera, P.E., Edward F. Schmit, Eric P. Robl, P.E.

Type of work performed: Full Service Engineering Company including: Structure, Traffic, Survey, Right-of-Way, Environmental, Permitting, Water, Wastewater, Sewer



Gibson-Thomas Engineering Co., Inc.
Consulting Engineers

A.D. Marble and Company
1000 Gamma Drive, Suite 203
Pittsburgh, PA 15238

Phone: 412.968.5977

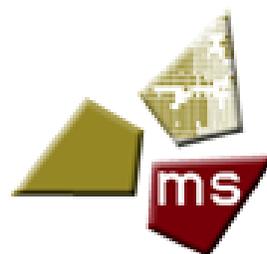
Contact: Stephen Wiedemer
Email: swiedemer@admarble.com

Principals: Roseline H. Maiston, Jason Vendetti, Peter Dodda, Ed Loy

Type of work performed: Natural Resources, Cultural Resources, Engineering Services, Public Involvement, Graphic Design



OUTSTANDING HIGHWAY ENGINEERING AWARD RECIPIENT MILL STREET BRIDGE, NEW CASTLE, PA



The Mill Street Bridge, also known as the American Veterans Memorial Bridge, carries South Mill Street over the Neshannock Creek in the City of New Castle, Pennsylvania. This project won the ASHE Pittsburgh Section's Outstanding Highway/Bridge Project for 2014 (Category B: Projects costing between \$5 million and \$15 million) announced at the Pittsburgh Section's Past Presidents' Banquet in October, 2014.

The bridge is owned and maintained by Lawrence County. The existing 219-foot long single span, through-truss bridge was constructed in 1920 and carried two 15'-10" lanes of bi-directional traffic with 9'-0" wide sidewalks on each side. The original deck included two sets of trolley tracks that were removed during the 1982 rehab. It was determined that the bridge should be replaced due to advanced deterioration of the superstructure that required posting of the structure due to inadequate structural capacity.

To provide an adequate hydraulic opening, the single span bridge was replaced with a two span steel multi-girder bridge with a crest profile closely matching the existing profile on the same alignment as the existing bridge. One of the main design challenges with replacing the bridge was the close proximity of the four-story New Castle Notions Co. Building, built in 1905, located at the southeast corner of the bridge. The existing south approach roadway sidewalk and existing bridge abutment abutted this historical building. The bridge was built so close to the building that the basement of the building retained the approach roadway embankment. Also, another historical building, currently called The Cascade Riverplex Building, located at the northeast corner of the bridge, had recently been renovated inside and out with outside patios and walkways with a decorative railing made of stone pillars and black wrought iron railing, decorative street lighting and water features. The historic building was the Warner Cascade Building, Warner Brothers' first permanent theatre. Due to limitations imposed by these buildings, the replacement of the existing abutments would require extensive amount of temporary shoring and great care by the contractor not to disturb the integrity of the buildings and recently constructed streetscaping.

To avoid the historic buildings, the recently constructed streetscaping and the retaining walls in the channelized stream, it was determined that **ms consultants (ms)** should investigate re-using the existing 90 year-old stone abutments, in lieu of replacing them. **ms** performed an in-depth inspection of the existing abutments and found no signs of existing cracking, settlement or



rotation and only minor deteriorated masonry joints and some slight surface deterioration of the stone facing. To verify the condition of the abutments, several cores were taken from the stone and concrete and tested for strength and chloride levels. The testing of the core samples indicated that the stone and concrete in the abutments were in good condition and could be reused. Additional investigation was needed to determine the structural integrity of the existing abutments and determine the condition of the deep foundation system supporting the abutments. The existing bridge drawings indicated the abutments were constructed on pile foundations but did not indicate the type or size of the piles. During the coring of the abutments, some of the cores were drilled through the abutment footing to try and obtain samples of the existing piles. One of these cores extracted a piece of timber. Based on this information, it was assumed that the existing piles were timber. This conclusion was supported by PennDOT when they discovered timber piles during the replacement of a nearby bridge located just downstream of the Mill Street Bridge. These timber piles were extracted and found to be in good condition, with no rot or insect infestation.



However to determine the condition of the existing timber piles, it was necessary to inspect and test them. In order to expose the piles, an area at the southwest corner of the bridge was excavated in front of the abutment where the streambed was dry during low flow. The excavation needed to extend over 15 feet deep to expose the timber piles. Because the subsurface was wet loose fine grain material, the contractor proposed the use of drilling and installing a 42 inch diameter steel casing. A window was cut on one side of the pipe to provide access below the foundation. The steel casing was dewatered and the top 1' to 2' of several timber piles were exposed. Inspection and sampling of the timber piles indicated that the outer ½ " of the piles were soft but the interior of the timbers was hard and intact with no rot or signs of insect infestation. The good condition of the timber piles was contributed to the fact that the timbers were submerged in a continuous wet environment.

Considering the good condition of the abutments and their foundations, the reduced loads on the existing abutments with the replacement of the single span bridge with a two span bridge and the impacts to the nearby features associated with constructing new abutments, it was determined that the existing abutments could be reused. It was estimated that reusing the abutment saved over a \$2,000,000 in construction costs and greatly minimized the disturbance to the existing streetscape and nearby building foundation.

To ensure that the aesthetics of the project would blend with its surroundings, an architectural finish (formliners) with staining was used on the new pier to match the stone facing on the existing abutments. This helped tie the new (pier) with the old (abutments). The concrete portion of the PA Barriers were also treated with an architectural finish and stain to match the stone pillars on the walkway at the northeast corner of the bridge. Decorative light poles and fixtures were installed on the bridge to provide a seamless continuation of the downtown streetscape across the bridge.



By working closely with the County, the City of New Castle and PennDOT, a bridge was able to be built within very tight constraints, with minimum disruptions to nearby businesses and parking areas at a reasonable cost and during only one construction season.

\$2,000 SCHOLARSHIP CIVIL ENGINEERING

The Pittsburgh Section of the American Society of Highway Engineers (ASHE) is pleased to announce a scholarship program for the 2015-2016 academic year. *Interested students shall complete the attached application and submit all necessary documents by February 23, 2015 to:*

ASHE
c/o Jim Weaver
ATTN: Scholarship Committee
Zell Engineers, Inc.
2200 Liberty Avenue
Pittsburgh, PA 15222

Applications may also be submitted digitally, by scanning completed and signed forms and email to hcessna@pa.gov.

AWARD

The amount of the scholarship will be \$2,000.00. The student selected for the scholarship will be announced and recognized at a Spring 2015 ASHE dinner meeting.

ELIGIBILITY

The applicant must be a citizen of the United States whose home residence is in Allegheny, Beaver, Butler, Lawrence, Washington, or Westmoreland County, Pennsylvania. Students residing outside of these counties are eligible if a member of the Pittsburgh section of the American Society of Highway Engineers sponsors them. The applicant must have at least sophomore status during the Spring 2015 semester in a program leading to a Bachelor of Science Degree in Civil Engineering. The applicant must have at least one (1) 12 credit semester of school beyond Spring 2015 before graduation. Anyone who has received this award in the past is not eligible.

SELECTION OF AWARDEE

The scholarship will be awarded based on the recommendation of the Scholarship Committee. Applicants will be judged equally based on Scholastic Achievement, Letter of Recommendation, Extra Curricular Activities, Honors/Awards and Written Essay.

Essay: On a separate sheet of paper, please write a brief essay (300 words, double spaced, 12 point font max) regarding the following:

ASHE is an advocate of the transportation industry. Describe your passion for the transportation industry and the ways in which you as a transportation professional intend to positively impact the industry.

I give my permission to have this information shared with ASHE and the public.

Signature: _____ Date: _____

Want to get in on the fun?

Be a part of the future of the Pittsburgh Section?

Work with a great group of people?

Have the honor of serving as President of the ASHE Pittsburgh Section some day?



ASHE Board Members are Cool!



I WANT YOU



Then consider serving on the ASHE Board of Directors.

**Contact Immediate Past President and Nomination Committee Chair,
George Zboyovsky, PE for more information at
gzboyovsky@brentwoodboro.com**

ASHE Pittsburgh welcomes its newest members...

Jessica Bladow

Patricia Burke

Ryan Catena

Daniel Fuhrman

Oliver Green

Lisa Hoeke

Vico Innocenti

Daniel Laird

Anthony Mertante

Katelyn Novak

Joseph Plummer

Tony Sadaka

Dave Snively

Nicholas Streets

Bryan Teschke

Chris Zivkovich

Eileen Botti

Ethan Carrier

Eamonn Clements

Michael Girolami

Matthew Groznik

Eric Holland

Leon Jeziorski

Cassandra Lloyd

Jeremy Merryman

John Papciak

Andrew Roberts

Katherine Schmotzer

Dylan Soller

Darlene Stringos-Walker

Jordan Wilcox

Craig Broadbent

Mike Cassata

Paul DiGirolamo

Jay Goldstein II

Darin Hettich

Ryan Hough

DJ Kropf

Jason Machula

Eric Meyer

Allen Peng

Nicholas Ross

Kyle Smiach

Charles Stajewski

Anthony Switlick

Daniel Wills



Thomas Monda

Jonathan Peters

Joe Rusiewicz

Douglas Smith

Eric Stein

Ethen Taylor

Shanhong Wu

Mark your calendars



Upcoming ASHE Pittsburgh Events

February 11, 2015—ASHE Pittsburgh Dinner Meeting at ESWP in Pittsburgh

February 12, 2014—ASHE Young Members Event

February 24, 2014—2016 Conference Committee Chair Meeting

March 18, 2015—Educational Seminar at University of Pittsburgh

April 2015—ASHE Young Members Joint Social with ASCE, EWSP, SAME

May 13, 2015—ASHE Pittsburgh Dinner Meeting

May 22, 2015—ASHE Pittsburgh Annual Golf Outing at Ponderosa Golf Course

June 13, 2015—Annual Pirate Game & Tailgate

Upcoming Events from Our Region

East Penn: February 3rd—Dinner Meeting, Sands Hotel

Williamsport: February 17th—PennDOT P3 at The Villa

Franklin: February 17th—Crane Room, New Castle

Delaware Valley: February 18th—Bridge Presentation at the Radisson Hotel Valley Forge

Southern NJ: February 18th—Radisson Hotel, Valley Forge

Altoona: February 25th—Meeting

Southwest Penn: February 25th—Caporella's, Uniontown

Delaware Valley: February 24th—Young Members, Manayunk Brewing Company



Get ASHE Updates on social media:

Facebook:

<http://facebook.com/ASHEPittsburgh>

Twitter: @ASHEPittsburgh

LinkedIn: ASHE Pittsburgh



ASHE Pittsburgh thanks the 2014-2015 Century Club Members

A.D. Marble & Company
A. Morton Thomas & Associates, Inc.
A&A Consultants, Inc.
ACA Engineering, Inc.
AECOM
Amelie Construction and Supply, LLC
American Geotechnical &
Environmental Services, Inc.
Arrow Land Solutions, LLC
Bruce and Merrilees Electric Co.
Buchart Horn, Inc.
Cardno TBE
Carmen Paliotta Contracting, Inc.
CDR Maguire, Inc.
CDM Smith, Inc.
Constructors Assoc. of Western PA
David E. Wooster and Associates, Inc.
Earth, Inc.
East Jordan Iron Works
Erdman Anthony
Frank Bryan, Inc.
Foresight Construction Services, LLC
GAI Consultants, Inc.
Gannett Fleming, Inc.
Gibson-Thomas Engineering Co., Inc.
Golden Triangle Construction Company
Greenman-Pedersen, Inc.
Gulisek Construction LLC
HDR Engineering, Inc.
Hill International, Inc.
HRV Conformance Verification
Associates, Inc.
Jeff Zell Consultants
Johnson, Mirmiran & Thompson, Inc.
KCI Technologies, Inc.
L.R. Kimball
M.A. Beech Corporation
Mackin Engineering Company
Management Engineering Corp.
Markosky Engineering
McCormick Taylor, Inc.
McTish, Kunkel & Associates
Michael Baker International, LLC
Monaloh Basin Engineers
ms consultants, inc.
O.R. Colan Associates, Inc.
Olszak Management Consulting, Inc.
P. Joseph Lehman, Inc.
Parsons Brinckerhoff
Penn Line Service, Inc.
Pennoni Associates Inc.
Printscape Imaging & Graphics
Rettew
Romualdi, Davidson & Associates, Inc.
SAI Consulting Engineers, Inc.
Skelly and Loy, Inc.
Stahl Sheaffer Engineering, Inc.
Stantec
STV, Incorporated
Sucevic, Piccolomini & Kuchar
Engineering, Inc.
T.W. Consultants, Inc.
Traffic Planning & Design, Inc.
Trans Associates Engineering
Consultants, Inc.
TRC Engineers, Inc.
TranSystems
Tri-State Design & Development
Trumbull Corporation
Whitman, Requardt & Associates, LLP



c/o Jim Weaver
Jeff Zell Consultants, Inc.
2200 Liberty Avenue
Pittsburgh, PA 15222

This issue of the Cross Section Newsletter was designed and created by Kathryn Power. To report any corrections, please email kathrynpower@live.com