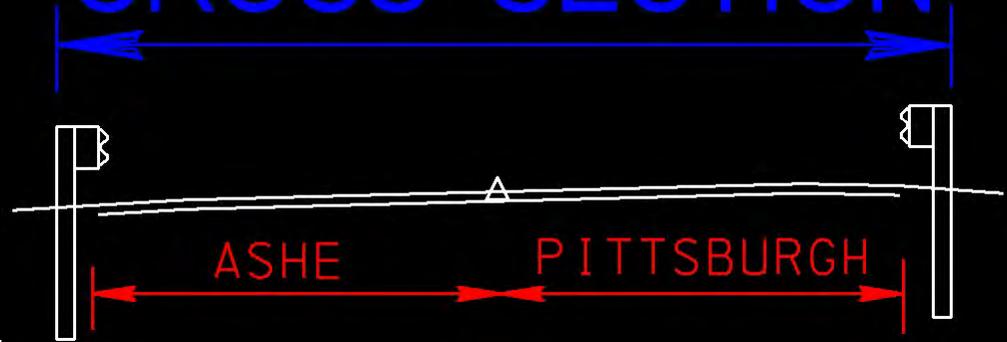




CROSS SECTION



Section Officers 2014-2015

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Inside this issue:

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ASHE

AMERICAN SOCIETY OF HIGHWAY ENGINEERS
PITTSBURGH SECTION

November 12, 2014 - Dinner Meeting



At the
Pittsburgh Marriott North
in Cranberry, PA

100 Cranberry Woods Drive
Cranberry Township, PA 16066
(724) 772-3700



5:30 PM—Social Hour
6:30 PM—Dinner
7:30 PM—Presentation

Bradley J. Heigel, P.E.

Chief Engineer of the Pennsylvania Turnpike Commission

Speaking on the PA Turnpike for the Fiscal Year 2015

RSVP by November 7, 2014

Contact John Nicholson:

J.nicholson@gaiconsultants.com

(412) 476-2000 ext. 1730

Registration

\$40 Members

\$50 Non-Members

\$20 Public Employees

**We are expecting a high number of attendees at this event, reservations will be filled on a first come, first serve basis. Please RSVP early!

Young Members



October 22nd @ 6 PM



WANTED!

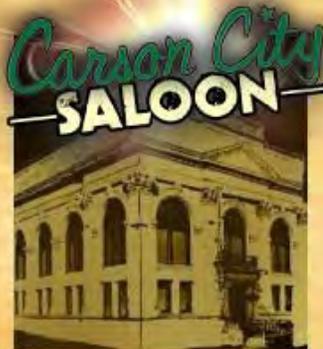


**ASHE YOUNG MEMBERS &
DISTRICT 11 CIVIL ENGINEER COUNCIL**

When: October 22nd 6-9PM

Where: Carson City Saloon
1401 East Carson Street
Pittsburgh, PA 15203

FREE Appetizers Sponsored by
ASHE
Drink Specials (Cash Bar)



VS



YOUNG MEMBERS - \$5 DONATION!
OTHERS - \$10 DONATION!!
FREE - IF YOU JOIN ASHE ONSITE!!!

***ALL PROCEEDS BENEFIT CHARITIES**

RSVP BY OCTOBER 17 TO JOHN NICHOLSON - j.nicholson@gaiconsultants.com

Any questions, contact: Jamie Unger, jaunger@pa.gov

President's Message

What a great start to kick off the new ASHE season! Our first dinner meeting at the Hofbrauhaus was attended by 134 people. A big thank you goes out to our featured speaker, Cheryl Moon-Sirianni! Way to draw a crowd, Cheryl!

Our official membership count to start the year is 527 members and we already have 25+ new member applications for this year. Our Section was very pleased to report a low number of only 21 membership-drops this year. Thank you John Lepri, Dave Mikec, and everyone who has encouraged new membership and retention of existing.

We do owe several members an apology if you have not been receiving ASHE notifications. The Section's Board is working to develop and improve communications to the membership. It has become an ongoing problem with members having changes in contact information and making sure that the appropriate ASHE leaders receive and update these changes in the directories. In an effort to eliminate this problem, we are streamlining the membership database into one document. Merging the existing documents, cleaning up un-deliverables, and working through the technology bugs has been challenging. Some members contact information may have reverted back to an old email address, and that's possibly why you may have not received recent correspondence. But Jason, John, and John have been doing a fantastic job with this task. In the mean time, bare with us, and check out the Section's website for updates. <http://www.pittsburgh.ashe.pro>

I do encourage everyone to check our Section's website. The website is being actively updated and maintained by Jason Esser, who is doing a fantastic job working to modernized our Section's practices with web-based features. In the near future, each member will have his or her own login ID and password to be able to access your ASHE membership profile. Through this personal profile login, you'll be able to update contact information, pay your membership dues online, and eventually, register and pay for dinner meetings or other ASHE events. Keep an eye out for updates on these features.

Hashtag! # ASHE Pittsburgh is on Twitter....and Facebook, and LinkedIn. Great job, Jamie!



See you on November 12th!

— Kathryn

Kathryn Power, P.E., 2014-15 ASHE Pittsburgh President

Thank you to our volunteers!

Fall 2014 Adopt A Highway



Pictured from left to right: Kathryn Power, Doug Lang, Kevin Ferry, John Sada, and 14 bags of trash. Behind the camera: Marc Garfield

ASHE Pittsburgh held its fall clean-up of the Campbells Run Road interchange on Saturday October 4, 2014. Since ASHE Pittsburgh has a spring and a fall clean up, the area is usually pretty good and this weekend was proof to that. We only had five volunteers and it seemed to take no time at all maybe 45 minutes at the most. Luckily we did it at 9 AM before it started to hail. ASHE Pittsburgh would like to thank all our volunteers and look forward to another successful clean-up in the spring.

Courtesy of Marc Garfield

S.R. 0079, Section P10

(I-79 Meadow Lands Interchange Project)

By: David Kozel, P.E., Gannett Fleming, Inc. & Barry Lyons, P.E., PennDOT District 12-0

Located at I-79 Exit 40, the nearly 50-year-old, half-diamond Meadow Lands Interchange served the northbound exit and southbound entrance movements at S.R. 1009 (Locust Avenue/Pike Street) and S.R. 1047 (Manifold Road) in South Strabane and Chartiers Townships, Washington County, Pennsylvania. To enter northbound I-79 and exit southbound I-79, traffic used the Race Track Road interchange located to the north along with the local roadway network through the Meadow Lands community.



Aerial photo of the completed I-79 Meadow Lands interchange, looking in a northeastern direction.

Factoring in commercial and industrial growth in the area, increasing truck traffic, and future development, the need to improve access at this interchange became evident. To address the need, PennDOT initiated the project to reconstruct the interchange to provide full access at the interchange along with reducing traffic through the adjacent community. The project also needed to improve safety by utilizing current design standards and improving existing conditions while minimizing impacts to adjacent Chartiers Creek, the nearby communities, existing roadways and I-79 traffic.

During preliminary design, the “split diamond” interchange was determined to be the best fit for the project as the configuration provided the necessary design components while minimizing impacts. The major design and construction components were:

- ◆ Construction of new northbound entrance and southbound exit ramps
- ◆ Reconstruction of existing ramps to meet design criteria
- ◆ Construction of one-way connector ramps between the exit and entrance ramps
- ◆ Relocation and widening of S.R. 1047 to intersect with the new ramps
- ◆ Construction of new dual structures to carry I-79 over relocated S.R. 1047
- ◆ Replacement of the functionally obsolete bridge carrying S.R. 1047 over a tributary
- ◆ Closure of a local road and construction of a cul-de-sac
- ◆ Relocation of 835 feet of a tributary to mitigate the interchange construction
- ◆ Construction of steepened rock slopes that eliminated additional walls



A view looking east at the southbound exit ramp retaining wall and Chartiers Creek to the left.

The project was complex involving numerous challenges including:

Chartiers Creek and the New Southbound Exit Ramp –

The new southbound exit ramp needed to be located between I-79 and Chartiers Creek. With the Meadow Lands community along the creek to the north, impacts to the 100-year flood plain needed to be minimized. To eliminate impacts to the creek, a 530' reinforced concrete retaining wall was constructed along the new exit ramp.

Dual structures carrying I-79 over S.R. 1009 –

The design of the project avoided the need to replace the existing dual (three span) bridges carrying I-79 over S.R. 1009. Bridge replacement would have resulted in 1,400 feet of I-79 reconstruction. S.R. 1009 was widened while maintaining the existing alignment and maintaining the existing clearance between the bridge piers. Maintaining the alignment avoided impacts to the existing golf course located in the southeast corner of the interchange.

S.R. 1009 Bridge over Chartiers Creek – The existing three-span bridge remained in place and was re-decked as part of the project. To further complicate the design, the bridge was located in a superelevation transition from the adjacent horizontal curve within the interchange and the existing transition over the bridge did not meet current design requirements. To address this, variable haunch depths were utilized to provide the required transition on the new deck. A detour was implemented to complete the work on S.R. 1009 and access to a UPS facility (driveway at the northern corner of the bridge) was maintained during construction.



A view looking west at the new I-79 southbound exit ramp and connector ramp (I-79 with steepened rock slope to the left and retaining wall to the right).

Tributary to Chartiers Creek and the New Northbound Entrance Ramp –

The new ramp required the relocation of 835 feet of the tributary. The tributary was designed and constructed in two parts: the main channel (bottom width of 66') and the low flow channel meandering within the main channel. The result was no loss of stream length. The project incorporated mitigation features including plantings, mud sills, boulders, and two wetland areas. A mine pond along the new ramp was partially filled to construct the ramp and flow entering the mine pond was diverted back into the original channel with the construction of a weir at the pond inlet. This resulted in stream mitigation credits utilized on other projects. A 14' diameter pipe culvert located under I-79 north of the ramp was also



A view of the Tributary to Chartiers Creek—relocation and mitigation.

rehabilitated. An archaeological site in the ramp and tributary area was fenced off. The project was coordinated with the Pennsylvania Department of Environmental Protection, U.S. Army Corps of Engineers, Pennsylvania Fish and Boat Commission, and U.S. Fish and Wildlife Service.

S.R. 1047 Relocation and Mainline I-79 – S.R. 1047 was relocated to pass beneath I-79 to form the split diamond configuration. With the location of Chartiers Creek, the flood plain of Chartiers Creek, the archaeological site, the new southbound exit ramp, maintaining the current grade of I-79, and the need to provide 16-6" underclearance, the design had to "thread a needle." This was achieved by developing horizontal and vertical alignments on S.R. 1047 in coordination with the new mainline dual bridges. The bridges were designed and constructed with full height abutments to minimize the span length and superstructure thickness. Spread box beam superstructures were utilized to further mitigate grade issues (result: no need to raise the profile grade on I-79). The key advantage is that only 300 feet of mainline I-79 reconstruction was required, resulting in cost savings. The relocation and widening of S.R. 1047 required the replacement of a two-lane narrow bridge over the tributary with a reinforced concrete box culvert and avoided impact to the archaeological site. The construction of the new northbound connector ramp required the displacement of two residences and a large cut in the hillside located in the area of the ramp.

Noise Impacts – As a result of the noise investigation and to address noise impacts to residences along S.R. 1047, a 180' sound barrier was designed and constructed.

Mine Grouting Program – Because of the close proximity of abandoned mines, a cost-effective mine stabilization program was developed under the direction of the District Geotechnical Engineer and was accomplished by establishing a sequential, risk-based approach. Five individual undermined areas within the project limits were identified and stabilized in an assigned order. Contract requirements included performing real-time monitoring of the accumulated quantities and costs. Subsequent authorization to continue the program was granted based upon the funding available for this item of work. Tremie grouting of undermined areas located within 50 feet of the ground surface consisted of injection of alternating layers of cement concrete grout and coarse aggregate materials to form intermittent support columns. Saturation grouting was only performed beneath proposed structures. The grouting program for all five areas was completed under budget.

Maintaining Traffic on I-79 – During construction, two lanes of traffic were maintained in each direction during peak periods. This was achieved by constructing the new northbound mainline bridge over S.R. 1047 first to a width of 60'. This bridge accommodated four lanes of traffic when the southbound bridge was constructed. A temporary support system was constructed between the new bridges to allow for staged construction. The distance of 800' between the existing bridges over S.R. 1009 and the new bridges over S.R. 1047 required detailed design of two-lane crossovers through the median. The mainline I-79 staging occurred over a two-year period.

Detours and Maintaining Access to Local Residences and Businesses – Detours were implemented during construction on both S.R. 1009 and S.R. 1047 to maintain access to residences and businesses. Work on S.R. 1047 was staged at each side of the Panorama Drive intersection to maintain access to this local road. The new northbound connector ramp was temporarily utilized for two-way local traffic to complete S.R. 1047 construction.

Safety was one of the primary components of the project. To address safety, the project reconstructed existing ramps and constructed new ramps to meet current design criteria (including acceleration and deceleration lengths), improved existing ramp intersections at S.R. 1009, added highway lighting at the interchange, installed four new traffic signals at the ramp intersections and installed ITS to reestablish the Dynamic Message Sign along southbound I-79.



Aerial photo of the I-79 interchange, looking in a western direction, showing intersections, ramps (including entrance, exit and connector), existing dual bridges over S.R. 1009 (top of picture) and new dual bridges over S.R. 1047 (bottom of picture).

The completion of the interchange project simplified navigation, reduced through traffic (including truck traffic) on S.R. 1009 through the community of Meadow Lands, provided direct access to Interstate 79 from areas south and east of the interchange and improved access for existing and future commercial and industrial facilities. The construction cost was \$23.2 million.



CIVIL ENGINEERING CAREER FAIR

Brought to you by:



WHEN : Friday, November 14th 2014 | 1:00 PM to 3:30 PM

WHERE : The University Club | 123 University Place Pittsburgh, PA 15260

TO REGISTER: Companies - Contact Dylan Soller (drs87@pitt.edu)

Students - Contact Ivan Chuaca (iwc3@pitt.edu)

Our Sponsors:

PITT | SWANSON
ENGINEERING

YOUR LOGO HERE

On behalf of the student chapters of the American Society of Civil Engineers and the Institute of Transportation Engineers at the University of Pittsburgh, I would like to invite you to join us on Friday, November 14th 2014 for a Civil Engineering Career Fair.

The event will be held at the University Club at the University of Pittsburgh from 1:00 PM to 3:30 PM. This is a great opportunity to gain access to students in the Civil and Environmental Engineering Dept. at the Swanson School of Engineering. If your company is looking to hire entry-level engineers or interns, then you will not want to miss this event.

To register, please fill out the registration form attached to your invitation email. You may register as a sponsor, or register as general admission. The sponsors will have their company logo advertised throughout the engineering school on the flyer attached to your invitation email. Your registration fees will cover parking, reserve you a table at our event, and act as a donation towards our organizations fundraising efforts.

Should you have any questions, feel free to contact Dylan Soller at (drs87@pitt.edu)

We look forward to seeing you at the Fair!

Sincerely,
Dylan R. Soller

Civil Engineering Career Fair | Payment Instructions:

Thank you for your interest in assisting our fundraising efforts by attending this event!

We are looking for 5 to 7 sponsors for the event. To sponsor the event, your firm will pay \$500 as the registration fee. All other firms registering for the event are required to pay \$200 for the registration fee.

The availability to sponsor is run on a first-come-first-served approach. Please contact Dylan Soller (drs87@pitt.edu) to ensure the availability of sponsorship positions.

Check or Money Order

- 1) Make checks payable to the American Society of Civil Engineers (ASCE) University of Pittsburgh Student Chapter.
- 2) Mail checks to the University of Pittsburgh.

Memo: ASCE/ITE
104 Benedum Hall
3700 O'Hara Street
Pittsburgh, PA 15261

- 3) Please indicate the contact that you would prefer to receive the confirmation email that the funds have been received and ultimately deposited into our Student Organization Resource Center (SORC) bank accounts.

Credit Cards

- 1) Go to www.giveto.pitt.edu
- 2) Select the "Give Now" button on the top right corner of the page
- 3) Follow the steps to place your donation to the American Society of Civil Engineers University of Pittsburgh Student Chapter.



Notice:

Your firm will be receiving a hardcopy of the invitation package in the mail in the coming weeks. Enclosed will be another guide to making/mailing donations.

ALL REGISTRATION FEES ARE DUE BY FRIDAY, OCTOBER 24th BY 5:00 PM

Featured Century Club Members

RETTEW Associates, Inc.
Twin Towers—4955 Steubenville Pike– Suite 305
Pittsburgh, PA 15205

Phone: 412.446.1728

Contact: Jennifer Bertoni
Email: JBertoni@rettew.com



Principals: Jeffrey S. Case, P.E.—Director of Transportation Engineering, Edward Reese—Regional Vice President

Type of work performed: Highway Engineering, Bridge Engineering and Inspection, Bridge Construction Support Services, Culvert Engineering, Geosynthetic Reinforced Soil Integrated Bridge Systems, Design-Build, PennDOT and PA Turnpike Projects, Traffic Analysis and Studies, Roadway Management and Bonding, Highway Occupancy Permitting, Survey, and Environmental Services.

Stantec
5000 Ritter Road, Suite 102
Mechanicsburg, PA 17055

Phone: 717.691.3355

Contact: Michael P. Bougher, Branch Manager
Email: mike.bougher@stantec.com



Principals: Mike Bougher, P.E., Doug George, P.E., Missak Sisserian

Type of work performed: Consulting Engineers, full service, multidisciplinary consulting engineering firm specializing in Roadway Design, Bridge Design, Traffic, Environmental, Construction Inspection and Right of Way Acquisition Services.

Stahl Sheaffer Engineering, LLC
5000 Waterdam Plaza Drive, Suite 120
McMurray, PA 15317

Phone: 724.960.1111

Contact: Aaron Fayish
Email: afayish@sse-llc.com



Principals: Rod Stahl, Jeffrey Shaeffer, and Aaron Fayish

Type of work performed: roadway design, construction management, construction inspection, traffic engineering, transportation planning, pedestrian and bicycle studies, and GIS services, as well as bridge, building structural engineering.

O.R. Colan Associates
3119 Pleasant Valley Blvd.
Altoona, PA 16602

Phone: 814.942.3052

Contact: Allen Thompson SR/WA
Email: athompson@orcolan.com



Principals: Catherine Colan Muth

Type of work performed: Right of Way Acquisition, Appraisal, Appraisal Review, Title & Settlement, Property Management

Job Corner

Please visit our [website](#) to view recent job postings:

<http://www.pittsburgh.ashe.pro/job-corner>



EXPERIENCE | Transportation

TranSystems is seeking a Roadway Project Engineer / Assistant PM responsible for the design and preparation of plan submissions related to interstate and arterial roadway design, complex highway interchanges, local roadways, bridge replacements/rehabilitations, and intersection projects for PennDOT, PA Turnpike and other various public agencies. This is a technical position with future management opportunities. This position is based out of the Pittsburgh Office in Two Gateway Center.

Basic Qualifications:

Bachelor's degree in the civil engineering field

Minimum 6 years of highway engineering and design experience; prefer 10+

Registration as a licensed PA Professional Engineer

Proficiency in MicroStation, In Roads, AutoTab, AutoTurn, OpenPlan, HEC-RAS, and MS Office

Familiarity with PennDOT / PA Turnpike procedures, policies, standards, and publications

Experience in the entire design development process including preliminary engineering, final design and services during construction

Engineering tasks include but are not limited to erosion and sedimentation control plans, traffic control, geometrics and roadway design, H&H, utilities, ROW plans, signing and pavement marking plans, pavement design, drainage and SWM, cross sections, earthwork, and PS&E packages

Strong leadership attributes; communication (written and verbal) skills; ability to be a team player; ability to lead and manage younger engineers; display of high energy; and perform problem solving skills

Preparation of proposals and technical writing, as well as presentations

Ability to prepare and monitor project schedules and budgets -

Ability and willingness to participate and assist in business development activities, marketing, and industry events

This is a full-time position with a competitive salary and benefit package. EOE. Please send resumes and/or contact Brian Krul at bakrul@transystems.com or 412-402-4813.

Job Corner

Please visit our [website](#) for more information on these recent job postings:

<http://www.pittsburgh.ashe.pro/job-corner>

COMPANY NAME: AECOM Technical Services, Inc.

GENERAL/COMPANY INFORMATION

AECOM is a premier, fully integrated infrastructure and support services firm, with a broad range of markets, including transportation, facilities, environmental, energy, water and government. With approximately 45,000 employees - including architects, engineers, designers, planners, scientists and management and construction services professionals - serving clients in more than 150 countries around the world, AECOM is a leader in all of the key markets that it serves. AECOM provides a blend of global reach, local knowledge, innovation and technical excellence in delivering solutions that create, enhance and sustain the world's built, natural and social environments.

Position: CIVIL ENGINEER (LEVEL II AND III)

Location: Pittsburgh

CONTACT INFORMATION

Contact Person: Lori Rossetti, PE

E-Mail Address: Resume can be sent to lori.rossetti2@aecom.com

Web Address: Please visit www.aecom.com, Careers Link, search postings in Pittsburgh

Physical Address: You may also submit a cover letter and resume to: AECOM 707 Grant Street, 5th Floor, Pittsburgh, PA 15219

MACKIN ENGINEERING COMPANY, a full service engineering, planning, and land development firm based in Pittsburgh, is searching for personnel to fill the following positions in our Pittsburgh office.

EXPERIENCED LANDSCAPE ARCHITECT - Responsibilities include project management, master site planning, site design, and completion of construction documents for the following project types: park & recreation planning; pedestrian and bike trails; streetscapes; and land development. Minimum requirements include a B.S. degree in Landscape Architecture with 5-years of experience and graphic abilities. Registration as a RLA is preferred.

BRIDGE & HIGHWAY ENGINEERS – Minimum requirements include a B.S. in Civil Engineering, a thorough knowledge of PennDOT & AASHTO Design Criteria, and 0-7 years of experience in bridge design projects or highway design projects. An EIT or P.E. is desirable.

Mackin Engineering Company is an E.E.O. employer and offers competitive salary and benefit packages. Please send resumes in confidence to:

Mackin Engineering Company

RIDC Park West

117 Industry Drive

Pittsburgh, PA 15275

Fax: 412-787-3588

employment@mackinengineering.com

Website: www.mackinengineering.com

GeoMechanics, Inc. (GMI) is a professional civil/geotechnical/environmental engineering organization located in Elizabeth, PA. GMI was incorporated in 1969 and utilizes in-house test drilling, laboratory soils and rock testing, instrumentation, design engineering and inspection capabilities to provide a full range of services to its clients from project inception through completion. GMI employs a current full-time staff of 35 including civil engineers, mining engineers, engineering geologists, water resources engineers, designers, draftspersons, drillers and laboratory and field technicians. GMI is capable of providing a broad range of services within the civil, geotechnical and environmental engineering disciplines. Completed projects are located throughout the United States with the majority located within 300± miles of the Greater Pittsburgh area. GMI is an Employee Owned Stock Option Company that provides competitive wage/benefits package including family medical coverage, 401(k) plan and paid time off for vacation and sick leave.

GeoMechanics, Inc. is looking for: Project Engineer/Manager, Project Geologist/Manager, and graduate engineers and geologists

Please email resumes to gmi@geo-mechanics.com.

Mark your calendars



Upcoming ASHE Pittsburgh Events

October 18, 2014—Past Presidents' Banquet at the Rivers Casino Ballroom

October 22, 2014—Young Member Social: Carson City Saloon, Southside

November 12, 2014—ASHE Pittsburgh Dinner Meeting

December 2014—Member Holiday Party

January 14, 2015—ASHE Pittsburgh Dinner Meeting

February 11, 2015—ASHE Pittsburgh Dinner Meeting

Upcoming Events from Our Region

Franklin: October 21, 2014—Golf Outing/Dinner Meeting, Hunters Station

Albany: October 21-22, 2014—Transportation & Planning Symposium, Latham, NY

Williamsport: October 28, 2014—Dinner Meeting, Holiday Inn, Williamsport

SW Penn: October 29, 2014—Dinner Meeting, DeNunzio's at Palmer Airport

Altoona: November 7, 2014—Rocky Gap Casino Bus Trip

Franklin: January 27, 2014—Venison Dinner Meeting, Conneaut Lake



omg ASHE on FB

Facebook: <http://facebook.com/ASHEPittsburgh>

Twitter: @ASHEPittsburgh

LinkedIn: ASHE Pittsburgh



ASHE Pittsburgh Welcomes the Following New Members...

Jeremiah Roehrig

Bryan Teschke

DJ Kropf

Mike Butrice

Eric Stein

Joseph Plummer

Tony Sadaka

Nicholas Ross

Joe Rusiewicz

Eileen Botti

Shanhong Wu

Ethan Taylor

Ryan Catena

Lisa Hoeke

Anthony Switlick

Darin Hettich

Ryan Hough

Ethan Carrier

Jay Michael

Chris Zivkovich

Cassie Lloyd

To join ASHE Pittsburgh, please contact Dave Mikec, Chairman of the Membership Committee!

D.Mikec@gaiconsultants.com

2016 ASHE National Conference Planning Continues

Planning continues for the 2016 National Conference, to be held in Pittsburgh. The Executive Committee is now on a bi-monthly cycle of meetings. Most of the sub-committees have met one or more times and formulated strategies to accomplish their respective goals.

Some of the notable milestones accomplished recently include signing a contract with a local hotel to host the conference, the establishment of a draft program agenda, booking of a venue for the Saturday golf outing, and budgeting of many sub-committee activities. We are also very close to finalizing our conference logo.

While the leadership roles and many of the committees have been filled, there is still an opportunity to help with the 2016 Conference. Most of the volunteer needs yet to be filled will be required during the event. It's not too early to send an e-mail with your name, company affiliation, and phone number to Kevin Duris or Pat Kane.

Kevin Duris-Conference Co Chair
Trumbull Corporation



225 North Shore Drive
Pittsburgh, PA 15212
412-807-2121
kduris@trumbullcorp.com

Pat Kane-Conference Co Chair
KCI Technologies



400 Penn Center Boulevard, Suite 305
Pittsburgh, PA 15235
412-824-7046, Ext 8201
Pat.kane@kci.com

ASHE PITTSBURGH: NOW & THEN

Past Presidents' Banquet 2013



Past Presidents' Banquet 2003



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.
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Mackin Engineering Company
Management Engineering Corp.
Markosky Engineering
McCormick Taylor, Inc.
McTish, Kunkel & Associates
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Penn Line Service, Inc.
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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