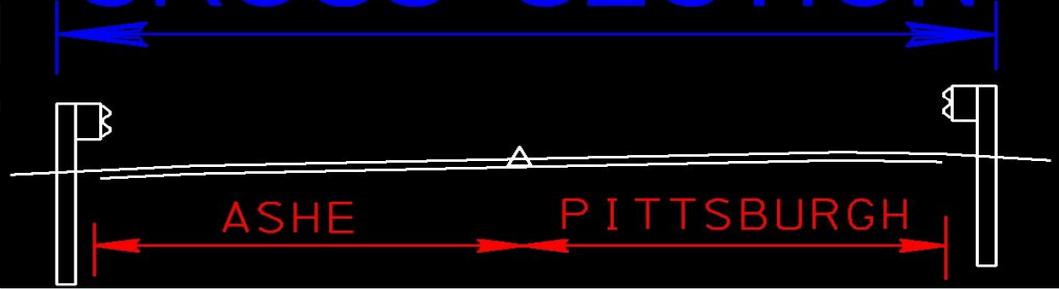




CROSS SECTION



August 2015

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Section Officers 2015-2016

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Paul Boggs, E.I.T.

SECOND VICE PRESIDENT

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Chuck Nash, P.E.

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

2 YEAR DIRECTORS

Jason Esser, P.E.

Pat Kane, P.E.

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Mariya Rowley, P.E.

IMMEDIATE PAST PRESIDENT

Kathryn Power, P.E.

REGIONAL REPRESENTATIVE

Kathryn Power, P.E.



President's Message

Anthony Castellone, P.E.



Buon Anno! Well, not exactly, but this is certainly a New Year for your ASHE Board, who have been working diligently over the summer to plan, budget and organize our activities and events through May of 2016. We hope that our membership is well rested and each of you has had an opportunity to spend quality time with family and friends at a comfortable, relaxing vacation venue!

During our two transition meetings, I have introduced the following goals and objectives that will set the backdrop for our activities over the next nine months:

KEEP THE STATUS QUO OF SUCCESS & POPULARITY

Each of our Board Members and Committee volunteers make this organization run efficiently via unselfish dedication of their time. We are always looking for volunteers to assist, so let us know if you want to get involved!

EASY / NO HASSEL EVENT REGISTRATION (AND PAY) VIA EVENTZILLA

We have introduced a new "spin" to event registrations (except Past President Banquet) and we trust our membership will embrace its convenience. We would like to transition to 100% on-line payments and registrations by our January dinner meeting.

LOWER OUR TAXES PAID

We hope to leverage our non-profit status to save on taxes for some of our major events; potentially saving thousands of dollars that can defray the rising costs of events.

HOST PENNDOT'S SECRETARY RICHARDS

With Act 89 now a "reality" we are all interested to hear what direction PennDOT's new leader will outline for our Transportation Engineering industry.

CONTINUE HOLIDAY HAPPY HOUR CELEBRATION TRADITION

A rousing success was had at the Cheesecake Factory last December, so stay tuned for details from our Programming Committee for this year's event!

HAVE FUN!

What a better way to enjoy the companionship of our fellow ASHE members and colleagues than over a good meal and great speaker. All of our events provide an opportunity to network and build relationships - relationships that will last a career and sometimes a lifetime!

In addition to our numerous ASHE dinner meetings, other notable events include: Past President's Banquet (October 24th at Heinz Field), Young Member Socials, Future Cities, University of Pittsburgh Transportation Forum, PDH Seminars, Pirates Outing and Adopt-a-Highway pick-ups. Also, our Pittsburgh section will host ASHE's National Conference at the Wyndham Grand Hotel, May 18-21, 2016. As part of this event, we will co-sponsor and participate in the National Conference Golf Outing in lieu of our Ponderosa outing next Spring.

In closing, I am honored to be your President this year, and am forever grateful for the dedicated Board of volunteers that are the true leaders who make ASHE Pittsburgh the great organization that it is.

Salute e Cent'Anni!



Pittsburgh Section Dinner Meeting



September 16, 2015

With

Cheryl Moon-Sirianni, P.E.

Assistant District Executive (Design)
PennDOT Engineering District 11-0



The Dinner Meeting will be held at:

Hofbräuhaus Pittsburgh

2705 S. Water St., Pittsburgh, PA 15203 (Southside Works)

RSVP by Friday, September 11, 2015

Registration information is available
via the chapter website
@ <http://pittsburgh.ashe.pro>

Online registration and payment via
credit card is now available through the
chapter web-page!

5:30 PM—Social Hour

6:30 PM—Dinner

7:30 PM—Presentation

Registration

\$40 Members

\$50 Non-Members

\$20 Public Employees

* NO SHOWS WILL BE INVOICED FOR THE FULL PRICE OF THE EVENT.

*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.



Summary of the 2015 National Conference

The 2015 ASHE National Conference was held in Baltimore, Maryland on May 28-31, 2015 with hot and humid weather. The conference was hosted by the Chesapeake Section and the Mid-Atlantic Region who did an outstanding job. The conference was held in the Renaissance, guests and ASHE members. Activities included the Baltimore Trolley Tour, Railroad Museum Tour, and Babe Ruth Museum. Though it wasn't officially part of the conference, many conference attendees made their way over to Camden Yards to catch a Baltimore Orioles game.



The conference golf tournament was held on Thursday, May 28 at the Woodlands Golf Course, which provided a beautiful and challenging layout. There were plenty of golfers and lots of prizes, and a delicious BBQ lunch - It was a perfect day for golf!

The annual business meeting included the traditional roll call of the Sections. Pittsburgh typically wins the award for the largest attendance at the conference and this year was no exception. As the Pittsburgh Section is preparing for the 2016 National Conference, we had a large group of Section members in Baltimore to promote the 2016 Conference, as well as learn some "tips-and-tricks" in conference planning.

Friday evening, ASHE friends gathered at the Top of the World on the 26th floor for an awe inspiring, panoramic view of Baltimore's Inner Harbor, while enjoying hors d'oeuvres, a dinner buffet and an open bar. We learned about Baltimore's history and saw some of the nationally significant, iconic sites from one of the best vantage points in Baltimore.

Saturday's annual banquet included the installation of National's officers for the 2015-2016 year, including Pittsburgh's own, Brian Krul, who is now serving as a 3-year Director on the National Board. The 2016 Conference PR Committee debuted the promotion video, showcasing Pittsburgh and the many reasons to attend next year's conference! The banquet was followed by comedian, Frank Del Pizzo, who poked fun at many audience members.

Baltimore has quite the nightlife, and many attendees made it out to various restaurants, pubs, nightclubs, and even a piano bar!

Baltimore's conference was wonderful, now it's our turn in Pittsburgh to plan and host the 2016 ASHE National Conference while celebrating the fiftieth anniversary of the Pittsburgh Section!





ASHE Member Update



Katie M. Anderson

The members of ASHE would like to extend our condolences and prayers to:

Member Catherine “Katie” M. Anderson’s family and friends. Katie passed away on August 19, 2015 at the age of 78. Katie had been an ASHE member since March 20, 1996 and served as the first female president of ASHE—Pittsburgh, and is also the founder of CMA Consultants.



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.

2016 Conference Information



Please keep the 2016 ASHE National Conference on your calendars!

Our section will be the host section for this upcoming year's conference, which also coincides with our 50th Birthday celebration!

The conference will take place May 19-22nd at the Wyndham Grand Hotel in Downtown Pittsburgh.

For more information please visit the conference website:

<http://2016conference.ashe.pro/>



Scholarship Winner!

Our Scholarship Committee was very pleased to award a scholarship to a very worthy candidate this past May. We were pleased to present a \$2,000 scholarship to Eric T. McCall of Ellwood City, PA. He is a senior at Penn State this fall and is very active in Bridges for Prosperity, serving as the Safety Manager, and spent 5 weeks in both of the last 2 years, in Panama, working on a community based bridge building project along with a team from Penn State. He is passionate about bridges and has maintained an excellent academic record at Penn State as well as being very active in Bridges for Prosperity, ASCE, the Snowboard Club, and as the public relations manager for the National Society of Collegiate Scholars.



Eric McCall on the Caimital Bridge in Panama.

Young Members Event



The Young Members section will be co-hosting an event with PennDOT District 11's Civil Engineer Council to support a charity in October.

Details are still being developed. Stay tuned! This will be our kick-off event for the next season!

Pennsylvania Society of Professional Engineers 2015 State Conference



September 23 – 26, 2015

DoubleTree by Hilton Pittsburgh in Cranberry Township, PA

Visit www.pspe.org for details.

Conference Highlights:

- ◆ 44 Peer Reviewed Sessions (Up to 12 PDHs available for License Renewal— Information regarding that below)
 - ◆ Build Your Professional Team—meet engineers in multiple disciplines
 - ◆ Entertainment
 - ◆ Vendors
-
- ◆ 3D Printing/Additive Manufacturing - Current and Future Applications
 - ◆ 5 Palmetto SR 826/836 Interchange
 - ◆ Anchoring & Restraint of Rooftop Equipment in High Wind Areas; Vibration Isolation of Mechanical Systems
 - ◆ Boundary Data Conflicts
 - ◆ Buckled Piling at I-43 Leo Frigo Memorial Bridge
 - ◆ Building Commissioning and RetroCommissioning
 - ◆ Coke Battery Rehabilitation
 - ◆ CSX Transportation J&L Tunnel Modification Project
 - ◆ Delivery of a Program Through a Public Private Partnership
 - ◆ Diverging Diamond Interchange (I-70)
 - ◆ Economic Metrics for Engineering Projects
 - ◆ Engineering Lessons to be Learned to Reduce Falls - The #1 Cause of Accidents in Buildings & Sites
 - ◆ Ethical Risk Management
 - ◆ Ethics Case Study: Johnstown's Flood
 - ◆ EXCELent Engineering Worksheets: Advanced Tips & Tricks
 - ◆ Expert Witness/Engineering Ethics: The Landslide of Unethical Practice
 - ◆ Falk School of Sustainability, Chatham
 - ◆ Forensic Project Management I
 - ◆ Forensic Project Management II
 - ◆ Full-Scale Collision Load Test Builds Confidence in Deployable Flood Wall at World Trade Center
 - ◆ Green Infrastructure for Stormwater Management
 - ◆ Hermitage's Self Sustaining Wastewater Treatment
 - ◆ High Roller Observation Wheel
 - ◆ How to Easily Automate Your Job Site Monitoring Using Drones
 - ◆ Installation of Deep Foundations at Kentucky Lake Bridge
 - ◆ Lean Six Sigma; An Engineering Perspective
 - ◆ Maintenance and Protection of Traffic (Traffic Control During Construction)
 - ◆ Minimizing Corrosion in Fire Protection Piping
 - ◆ PA Route 28, East Ohio Street Improvements – Project Completion
 - ◆ Pennsylvania Turnpike/I-95 Interchange Project – Update
 - ◆ Phipps Conservatory Reconstruction
 - ◆ Planning for the Future: Understanding BIM and the Emerging Technologies for Collaboration and Efficiency
 - ◆ Powering the Telephone I
 - ◆ Powering the Telephone II
 - ◆ Rail Welds – Failure Analysis and Testing
 - ◆ S.R 0021-A10, Masontown Bridge Replacement
 - ◆ Seismic Restraint
 - ◆ Solar Generation – From Concept to Interconnect
 - ◆ Specifying LED Lighting – The Challenges
 - ◆ TechShop - Accessing the Tools of Innovation
 - ◆ The Smart Grid – What Is It?
 - ◆ The State of the IBC in PA
 - ◆ Tower Designs, Structural Upgrades and Maintenance using ANSI/TIA-222-G
 - ◆ Veteran's Memorial Bridge, Fallston, Beaver County



Featured Century Club Members

Constructors Association of Western PA
800 Cranberry Woods Dr., Suite 110
Cranberry Township, PA 16066

Phone: 412.343.8000

Contact: Rich Barcaskey

Email: richb@cawp.org

Principals: Rich Barcaskey, Executive Director

Type of work performed: trade association for heavy/highway construction contractors in the 33 counties of Pennsylvania.



Frank Bryan Inc.

100 South 3rd Street
Pittsburgh, PA 15219

Phone: 412.719.8888

Contact: Jordan T. Bryan

Email: jordanthomasbryan@gmail.com

Principals: Thomas Bryan, David Bryan, Matt Bryan, and Justin Bryan

Type of work performed: Ready-mixed concrete supplier for the Greater Pittsburgh Area



Greenman-Pedersen, Inc.
4900 Ritter Road, Suite 110
Mechanicsburg, PA 17011

Phone: 814.241.1975

Contact: Frank Slezak

Email: fslezak@gpinet.com

Principals: Lou Morella, SVP; Gary Etter, COO

Type of work performed: Coatings Inspection, Construction Inspection, Highway and Bridge Design



Hill International, Inc.
2000 Oxford Drive, Suite 560
Bethel Park, PA 15102

Phone: 412.595.8800

Contact: Vic Spinabelli

Email: vspinabelli@hillintl.com

Principals: Michael Griffin, SVP & Regional Manager; Vic Spinabelli, SVP; Ken Olup, Vice President, Joe Onesi, Senior Project Manager

Type of work performed: consulting engineers—forensic engineers



Employment Announcements

Engineer II – Pittsburgh, PA Office – Civil



WSP and Parsons Brinckerhoff have combined and are now one of the world's leading engineering professional services consulting firms. Together we provide services to transform the built environment and restore the natural environment, and our expertise ranges from environmental remediation to urban planning, from engineering iconic buildings to designing sustainable transport networks, and from developing the energy sources of the future to enabling new ways of extracting essential resources. We have approximately 31,500 employees, including engineers, technicians, scientists, architects, planners, surveyors, program and construction management professionals, and various environmental experts. We are based in more than 500 offices across 39 countries worldwide.

www.wspgroup.com; www.pbworld.com

Position Description:

Parsons Brinckerhoff's Pittsburgh Office is seeking a qualified engineer to provide technical design support and gain experience in roadway, drainage, and site design projects. The position provides design support for a wide variety of project types and locations that range from small local projects to large national projects. The candidate must have communication skills, good work ethic, flexibility to work on a variety of projects, and the ability to work on multiple projects at a time.

The engineer will perform civil and highway related design tasks from small to large scale highway and transportation projects for PennDOT, PA Turnpike, Allegheny County, Port Authority and City of Pittsburgh. The design work will include, but not limited to: geometric studies, preliminary engineering, final engineering plan production, drainage design, hydrology studies, construction staging, quantity calculations, estimates, and other related engineering duties.

Working in a strong team environment will help keep your career continuing on the right path and provide you with multiple professional opportunities.

Requirements:

- ◆ BSCE from an accredited University or College
- ◆ 3-5 years of civil/highway engineering experience in Transportation Engineering
- ◆ An P.E in PA (preferred) or F.E. certification (or the possibility of obtaining it within six months from date of hire is required)
- ◆ Experience is required in the development of horizontal and vertical geometries using InRoads and Microstation
- ◆ Experience is preferred in drainage and E&S design drainage/stormwater management software such as InRoads Storm and Sanitary or equivalent software and HEC-RAS for H&H Reports for culverts and bridge structures
- ◆ The candidate is required to have a good understanding of civil engineering principles and practices
- ◆ Legally authorized to immediately work in the US

If you are looking for an exciting opportunity to work on exciting projects, while being part of an energetic team environment, then you should apply today!

Parsons Brinckerhoff is an equal opportunity employer committed to diversity in the work place. EOE minorities/ Females/Protected Veteran/Disabled.

For consideration, please apply online at www.pbworld.com under People & Careers/ Employment Opportunities. Job ID # is 27188.

For questions, contact Dave Cooper at cooperde@pbworld.com.

Senior Highway Engineer – Pittsburgh, PA Office – Civil



WSP and Parsons Brinckerhoff have combined and are now one of the world's leading engineering professional services consulting firms. Together we provide services to transform the built environment and restore the natural environment, and our expertise ranges from environmental remediation to urban planning, from engineering iconic buildings to designing sustainable transport networks, and from developing the energy sources of the future to enabling new ways of extracting essential resources. We have approximately 31,500 employees, including engineers, technicians, scientists, architects, planners, surveyors, program and construction management professionals, and various environmental experts. We are based in more than 500 offices across 39 countries worldwide. www.wspgroup.com; www.pbworld.com

Position Description:

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The engineer will perform the engineering design for civil site work and roadway design for PennDOT, PTC, Allegheny County and Port Authority projects, including independent capabilities for completing horizontal and vertical geometry, drainage and E&S, quantities, and general plan preparation. The position provides an opportunity to work in a professional environment with diverse projects, working independently without supervision and as a task manager working with and directing other engineers to complete bid-ready design contracts. The position will provide an opportunity to be Project Manager or Deputy Project Manager on assignments working directly with clients along with performing some business development related tasks.

Working in a strong team environment will help keep your career continuing on the right path and provide you with multiple professional opportunities.

Requirements:

- ◆ A B.S. degree in Civil Engineering preferably with a major in transportation.
- ◆ A P.E. in PA.
- ◆ A minimum of 7 years of civil engineering design experience.
- ◆ Experience is required in development of horizontal and vertical geometries using InRoads and Micro station.
- ◆ Experience is preferred in drainage and E&S design using HEC –RAS for H&H reports for culverts and bridge structures and stormwater management/drainage software, such as InRoads Storm and Sanitary or equivalent software.
- ◆ Ability to control budget and schedule at task level.
- ◆ Ability to perform and manage a variety of technical tasks.
- ◆ Ability to coordinate technical matters between disciplines and provide direction in the best interest of the project.
- ◆ Legally authorized to immediately work in the US

If you are looking for an exciting opportunity to work on exciting projects, while being part of an energetic team environment, then you should apply today!

Parsons Brinckerhoff is an equal opportunity employer committed to diversity in the work place. EOE minorities/ Females/Protected Veteran/Disabled.

For consideration, please apply online at www.pbworld.com under People & Careers/ Employment Opportunities. Job ID # is 27189. For questions, contact Dave Cooper at cooperde@pbworld.com.

Employment Announcement

MANAGER, TRAFFIC ENGINEERING

Mackin Engineering Company, a provider of engineering and consulting services since 1960, has a position open for Manager of Traffic Engineering.

The minimum requirements include 10-years of experience in all facets of traffic engineering, registration as a professional engineer in Pennsylvania, experience with PennDOT projects and with the automated PennDOT HOP process. The ideal candidate will also have extensive experience in Pennsylvania Turnpike Commission projects, and have the ability to provide common sense solutions and recommendations to clients.

Mackin Engineering Company is an EEO employer and offers competitive salary and benefit packages. Salary will be commensurate with experience and qualifications. Please send resumes in confidence to:



Mackin Engineering Co.

RIDC Park West

117 Industry Drive

Pittsburgh, PA 15275-1015

Fax: (412) 412-3588

employment@mackinengineering.com





2015 Golf Outing

This year's outing took place on May 22nd, 2015 and saw a theme of new "senior tee" graduates posting low scores while everyone enjoyed a wonderful day on the course.



Congratulations to the foursome of Eric Meyer, Jeff Moore, Jason Skvarla, and Chad Slaughenhaupt who were the 2015 Champions with a TEAM NET score of 52.





ASHE PAST CHAMPIONS

TEAM

1ST PLACE

2015	Eric Meyer, Jeff Moore, Jason Skvarla, Chad Slaughenhaupt	52
2014	Randy Seaver, Jerry LaMendola, Glen Stickel, Rich Kauffman	46
2013	Bob Nedzesky, Andy Nedzesky, Ryan Yocum, Bill Young	43
2012	Jason Hoover, Bill Woodford, Bob Barnes, Vince Kraynak	48

2ND PLACE

2015	Jim Lombardi, Don Gennuso, Tom Donatelli, Alex Sciulli	53
2014	Brian Krul, Bob Collins, George Zboyovsky, John Pisula	47
2013	Randy Seaver, Jerry LaMendola, Greg Cerminara, Jim Swet	44
2012	Jason McCabe, Brad McCalla, Ben Reitz, Keith Sala	49

3RD PLACE

2015	John Petulla, Ty Murko, Bob Collins, Jennifer Threats	53
2014	Bob Nedzesky, Andy Nedzesky, Mason Young, Bill Young	48
2013	Karl Nejak, Dan Wills, Mike Dillon, Bernie Rossman	47
2012	John Kurgan, Steve Wilson, Tom Donatelli, Tom Zagorski	51

INDIVIDUALS

"A" FLIGHT

2015	Jerry LaMendola	62
2014	John Tricini	63
2013	Paul Scheuneman	57
2012	Jeff Moore	65
2011	Mark Catullo	65

"B" FLIGHT

2015	Jim Lombardi	59
2014	Brian Bohenic	58
2013	Keith Halas	59
2012	Bob Thumpston	64
2011	Virgil Barton	64

"C" FLIGHT

2015	Joe Primo	65
2014	Bob Collins	55
2013	George Zboyovsky	60
2012	Joel Shodi	61
2011	Paul Ostrowski	57

"D" FLIGHT

2015	Steve Leibhart	60
2014	Randy Seaver	61
2013	Greg Cerminara	55
2012	John Wood	60
2011	Dennis Davin	50

THANK YOU TO OUR 2015 HOLE SPONSORS:

HOLE #1



HOLE #2



HOLE #3



HOLE #4



HOLE #5



HOLE #6



HOLE #7



HOLE #8



HOLE #9



HOLE #10



HOLE #11



HOLE #12



HOLE #13



HOLE #14



HOLE #15



HOLE #16



HOLE #17



HOLE #18



AMERICAN SOCIETY OF HIGHWAY ENGINEERS
PITTSBURGH SECTION



Design and Construction of the Trafford Memorial Bridge

By Daniel J. Patterson, PE, Mackin Engineering Company, ASHE Pittsburgh Section

The Trafford Memorial Bridge carries S.R. 130 (Fifth Street) over Turtle Creek, the former site of the Westinghouse Trafford Foundry, Stewart Station Road and a spur of Norfolk Southern Railroad. The bridge is a vital link between Allegheny County and Westmoreland County in Southwestern Pennsylvania. The existing viaduct required replacement as it was structurally deficient.

The former Westinghouse Trafford Foundry site is now owned by Viacom. Years of industrial use have left behind PCB contamination and the site is now considered a Brownfield area, subject to Act 2 Restrictions. It was determined during preliminary design that a new viaduct structure would cost less than a bridge/embankment alternative because placing embankment would require the replacement of a 72" brick storm sewer that runs parallel to the bridge; along with large quantities of excavation for the toe benches that would have to be sampled, tested, and disposed of off-site.

The new bridge is a nine span, 980' long prestressed concrete bridge, comprised of an 8 span continuous I-beam unit with a single spread box beam span over the railroad. Abutment No. 1 is supported by a spread footing on bedrock and Abutment No. 2 is supported on vertical piles, with all eight piers 8.5' diameter single drilled shafts.

The project included the design and construction of the bridge with a new improved intersection at the east end of the bridge (Westmoreland County) in Trafford Borough, and reconstruction of roadway and sidewalks at the west end of the bridge in Allegheny County.



Typical Pier with downspouts, splash blocks and rock aprons

The bridge carries two – 12'0" lanes, with 2'0" gutters and two 5'8" sidewalks with 1'0" pedestrian walls. The superstructure is composed of an 8 span continuous unit supported by 5 AASHTO I-Beams spaced at 8'9". The span over the railroad is comprised of spread box beams with varying spacing to fit under deck utilities and drainage. The superstructure is supported by the aforementioned abutments and single shaft mass concrete piers.

Available pier locations were restricted not only by the underpassing creek, roadway and railroad, but also by foundations for the existing bridge, foundations for the previous bridge, a vortex vault (sewage facility), a pump house, functioning fire lines from the old foundry and a brick storm sewer system.

The 8 span continuous unit is fixed at Pier 4 and expands toward Abutment No. 1 and Pier 8. Both elastomeric bearings and high load multi-rotational bearings were used to accommodate expansion. Design of the tooth dam at Pier 8 was challenging because it was supported by I-beams on one side and variably spaced box beams on the other side.

Collection of deck drainage was challenging. A total of 36 scuppers were required because the deck is on a very flat grade (+1%/-1% crest curve) with narrow gutters (2'-0"). Free falling scuppers were not allowed because of the contaminated soils. All drainage was routed to the piers and drained onto splash blocks on rock aprons.

The ability to adjust the vertical grades of the bridge was extremely limited – the vertical profile had to provide required clearance over the RR and meet the intersections at each end of the bridge – the existing approach profiles could not be adjusted.

Abutment No. 1 is a stub abutment with a spread footing perched at the top of a 40' high vertical rock outcrop adjacent to Turtle Creek. Abutment No. 2 is a taller abutment (17') on vertical piles. The piers are 8.5' diameter single drilled shafts with 8.0' diameter rock sockets, with total depths of 45' to 60'. The drilled shafts were Mass Concrete pours. Single drilled shafts proved to be more economical than pile footings because the pile footings were very large due to the length of continuity. They required less sampling, testing and off-site removal of contaminated and hazardous waste. Crosshole Sonic Logging was conducted on each pier to determine the integrity of the concrete in the completed shafts.



Abutment No. 2 with Architectural Surface Treatment

Approaches were constructed on each end of the bridge, with a new intersection giving Trafford its first traffic signal at the Westmoreland County end. Traffic flow was improved by increasing truck turning radius on the approaches, while new improved sidewalks were constructed, as well as ADA ramps. New drainage was constructed on the approaches. The west approach was reconstructed with new sidewalks and roadway, ADA ramps were also constructed. The project included PAT bus stops at both ends, including a shelter at the east end.

The Contractor (Mosites Construction Company) was required to construct an area adjacent to the construction site for decontamination, material staging and liquid holding. Mosites proposed testing the materials in situ to avoid the high cost of material staging. This proposal was accepted by DEP. Mosites was also required to lay down a Soil Barrier consisting of geotextile and 6" of compacted granular material. Mosites opted to cover the whole site. The completed project exceeded the expectations of PennDOT District 12 and Trafford Borough. PennDOT Project Manager Troy Pritts said, *"The Mackin design team did a commendable job delivering the bid package for complex viaduct replacement project. Thank you."* Inspector in Charge Bill Bromyard said *"Mackin and AGES were involved and very responsive in assisting both the contractor and the inspection team."* Borough Council member Richard Laird said, *"This bridge is like a new door on a house."* The original estimate for construction was \$11,938,110.51, the bid cost was \$10,747,348.20, and final constructed cost was \$10,207,891.25. The bridge was opened to traffic and dedicated to the veterans of Trafford on Saturday October 26, 2013, a month ahead of schedule.



Trafford Bridge looking west



At the dedication, Mayor Rey Peduzzi said, "In the 760 year history of Trafford, hundreds of Trafford residents have served in the armed forces of the United States of America, some during periods of armed conflict, some during periods of peace. But they all had one thing in common: As they left Trafford and their civilian life to join their military life, they crossed the bridges of Trafford. Many returned and resumed their civilian life: however, 38 residents never returned alive to Trafford."

ASCE Student Award Foundation Announces the Establishment of the Italo V. (Ody) Mackin Achievement Award!

The Student Award Foundation (SAF) of the American Society of Civil Engineers (ASCE), Pittsburgh Section, is proud to announce the naming of its primary student achievement award, which is presented annually in February at its Engineers' Week Awards Banquet. This prestigious award will now and perpetually be known as the "SAF Italo V. (Ody) Mackin Achievement Award." SAF student awards are given to outstanding students of Civil Engineering who reside in or attend an engineering school within the bounds of the ASCE, Pittsburgh Section.

Ody Mackin was born in the Friuli region in the northeastern Italian Alps in the village of Pesariis, about 10 miles from the Austrian border. He emigrated to the United States as a tot and has resided in Pennsylvania for all but five years of his life. Almost three of those years were served in the U.S. Army during World War II, 27 months of which were spent in the Pacific Theater of Operations. Upon his discharge, Ody took advantage of the G.I. Bill to attend the Carnegie Institute of Technology, now Carnegie Mellon University, where he received his Bachelor of Science in Civil Engineering.

Ody, an icon in the engineering field, is the ideal person to have his name associated with this achievement award because of all that he has achieved over his 62 years (and counting) as a professional engineer. Ody has been a Registered Professional Engineer since 1953, having reached that distinction when he worked for Richardson Gordon Associates (RGA) in its Pittsburgh office. He served in various capacities in his 10-year tenure with RGA, where he worked in both the bridge and highway departments. Ody served as project engineer on the Point Park Portal Bridge (the only one of its kind in the United States) and the Delaware River Turnpike Bridge, which connects Pennsylvania and New Jersey. He also gained experience on both the Ohio and Indiana Turnpikes as well as with the Pennsylvania Department of Highways (PDH), now the Pennsylvania Department of Transportation (PennDOT).

It was because of this wealth of experience, enhanced by his field surveying exposure, that Ody decided, together with a colleague (George Davic), to form a partnership to provide bridge, highway, and surveying services, a partnership that lasted three years. The partnership was dissolved and Ody decided to provide those services as Mackin Engineering Company, a Subchapter S corporation. The date of that transformation was May 1963.

In its 50 plus years of operation, Mackin Engineering has served a diverse set of clients, namely, PennDOT (all 11 engineering districts), the Pennsylvania Turnpike Commission, the County of Allegheny, the City of Pittsburgh, several municipal governments throughout the Commonwealth of Pennsylvania, and a litany of public and private clients.

Ody served as President of the American Council of Engineering Companies (ACEC/PA) in 1980, where he received the Distinguished Award of Merit, the most prestigious award of the organization, in 1999. He also received the Lifetime Achievement Award from the Airport Corridor Transportation Association (ACTA) in 2012 and the Distinguished Service Award from the Pennsylvania Society of Professional Engineers (PSPE), Pittsburgh Chapter, in 2014.



Ody Mackin, P.E. of Mackin Engineering





PAST PRESIDENTS' BANQUET



This year's Past Presidents' Banquet will be held at Heinz Field! We hope that you will plan to attend this wonderful event filled with Cocktails, Awards, and much more! RSVP by **October 2, 2015** in order to reserve your seats. Pricing and dinner specific information is available on the invitation.

For more detailed information please contact **Paul Boggs** at ASHEPastPresidentsBanquet@gmail.com.

Please join us at ASHE Pittsburgh's Annual

Past Presidents' Banquet

Heinz Field

 | 100 Art Rooney Ave
Pittsburgh, PA 15212

October 24

Join us for an evening of Cocktails, Dinner, Prizes, and the 2015 Outstanding Highway Engineering Awards

\$90 per person for ASHE Pittsburgh Members and Guest
\$75 per person for Government Employees & Guest
\$100 per person for Nonmembers

ASHE PITTSBURGH'S ANNUAL

PAST PRESIDENTS' BANQUET

OCTOBER 24, 2015
HEINZ FIELD - EAST CLUB LOUNGE

PLEASE COMPLETE OPPOSITE SIDE & RETURN BEFORE OCTOBER 2, 2015

- PROVIDE NAMES AS YOU WOULD LIKE THEM TO APPEAR ON NAME BADGE
- INDICATE ANY SPECIAL DIETARY REQUESTS
- PAYMENT MUST ACCOMPANY RSVP

\$90 PER PERSON FOR ASHE PITTSBURGH MEMBERS & GUEST
\$75 PER PERSON FOR GOVERNMENT EMPLOYEES & GUEST
\$100 PER PERSON FOR NONMEMBERS

INDICATE ENTRÉE SELECTION BY CIRCLING: B - BEEF SHORT RIBS, C - PROSCIUTTO-GOUDA CHICKEN, F - SEARED STRIPED BASS, V - VEGETARIAN

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2015 Past Presidents' Banquet

Heinz Field - East Club Lounge

use Suite Entry B on Art Rooney Ave.

6:00 Cocktails
7:00 Dinner
8:30 Awards, Prizes & More!

Complimentary Parking with enclosed voucher in Gold Lot I

Contact Paul Boggs for more information
ASHEPastPresidentsBanquet@gmail.com



Choice of Entrée:
Braised Beef Short Ribs
Prosciutto-Gouda Stuffed Chicken
Seared Striped Bass
Vegetarian Polenta & Roasted Eggplant

TABLES OF UP TO 8 ARE AVAILABLE.
EVERYONE LISTED WILL BE SEATED TOGETHER.

ENTRÉE SELECTION CIRCLE ONE:

1 _____ B/C/F/V \$ _____

GUEST _____ B/C/F/V \$ _____

2 _____ B/C/F/V \$ _____

GUEST _____ B/C/F/V \$ _____

3 _____ B/C/F/V \$ _____

GUEST _____ B/C/F/V \$ _____

4 _____ B/C/F/V \$ _____

GUEST _____ B/C/F/V \$ _____

TOTAL ENCLOSED \$ _____

RSVP PLACED BY: _____ PHONE: _____

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ASHE Pittsburgh Adopt – A - Highway

- Where: Campbell's Run Road Interchange (meet @ the Marathon Oil)
- When: Saturday, October 17th @ 9:00 AM
- Questions: Contact Marc Garfield
724-935-8188
marc.garfield@gibson-thomas.com



New Members!



*To join ASHE Pittsburgh, please contact Dave Mikec, Chairman of the Membership Committee!
D.Mikec@gaiconsultants.com*

ASHE Pittsburgh would like to welcome its newest members! Congratulations on joining this organization to further promote a safe, efficient and sustainable highway system by means of innovation and fellowship.

We cannot wait to get to know you!



Mark Your Calendars



Upcoming ASHE Pittsburgh Events

September 16, 2015—Pittsburgh Section Dinner Meeting (Cheryl Moon-Sirianni)

October 17, 2015—Adopt-A-Highway (Campbells Run Road Interchange)

October 24, 2015—Past Presidents' Banquet/Heinz Field

November 11, 2015—Pittsburgh Section Dinner Meeting

December 2015—2nd Annual Holiday Happy Hour

January 13, 2016—Pittsburgh Section Dinner Meeting

February 10, 2016—Pittsburgh Section Dinner Meeting

March 2016—Education Seminar at University of Pittsburgh

April 2016—Adopt-A-Highway (Campbells Run Road Interchange)

May 2016—Pittsburgh Section Dinner Meeting

May 18-22, 2016—National Conference: Pittsburgh, PA—Wyndham Grand Hotel

Summer 2016—Golf Scramble

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ASHEPittsburgh](http://facebook.com/ASHEPittsburgh)



Twitter: @ASHEPittsburgh



LinkedIn: ASHE Pittsburgh

ASHE Pittsburgh thanks the 2014-2015 Century Club Members

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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
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c/o Jim Weaver
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Pittsburgh, PA 15222

This issue of the Cross Section Newsletter was designed and created by Danielle List. To report any corrections please email ListD@pbworld.com