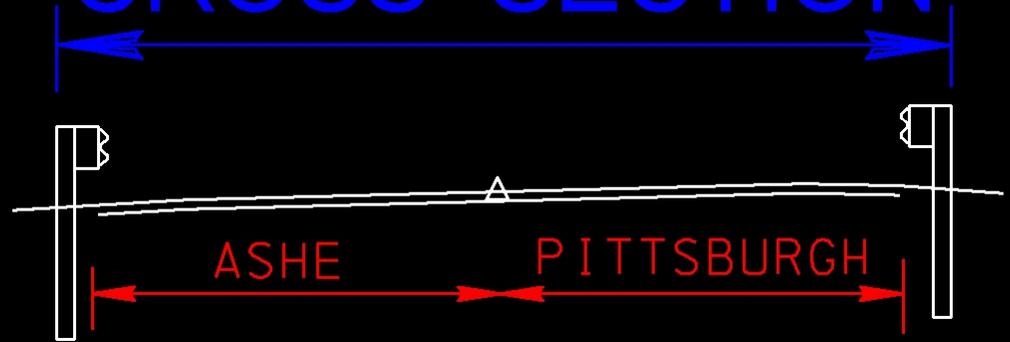




# CROSS SECTION



*Spring*  
**2015**

## Inside this issue:

- ◆ May 13, 2015 Dinner Meeting
- ◆ Are you going to Baltimore?
- ◆ 2015-16 Board of Directors Slate of Candidates
- ◆ President's Message: Kathryn Power, P.E.
- ◆ Young Members Event 04.10.15
- ◆ Featured Century Club Member Companies
- ◆ SR 2040 Brownsville / Broughton Road
- ◆ ASHE Pittsburgh sponsors Future Cities
- ◆ 2015 Annual Golf Outing
- ◆ Adopt-A-Highway
- ◆ Century Club Membership List

## Section Officers 2014-2015

### PRESIDENT

Kathryn Power, P.E.

### FIRST VICE PRESIDENT

Anthony Castellone, P.E., P.T.O.E.

### SECOND VICE PRESIDENT

Paul Boggs, E.I.T.

### SECRETARY

Jim Weaver, Jr.

### TREASURER

Jerry Pitzer, P.E.

### 1 YEAR DIRECTORS

H. Daniel Cessna, P.E.

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

Pat Kane, P.E.

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



## MAY 13, 2015

*With*

# James Foringer, P.E.

**Assistant District Executive—Construction**

**PennDOT Engineering District 11**

The Dinner Meeting will be held at:

**Narcisi Winery**

4578 Gibsonia Road, Gibsonia, PA 15044



**RSVP by May 8, 2015**

**Contact John Nicholson:**

**nicholsonja@pbworld.com**

**(412) 644—3050**

**NO SHOWS WILL BE INVOICED**

5:30 PM—Social Hour

6:30 PM—Dinner

7:30 PM—Presentation

**Registration**

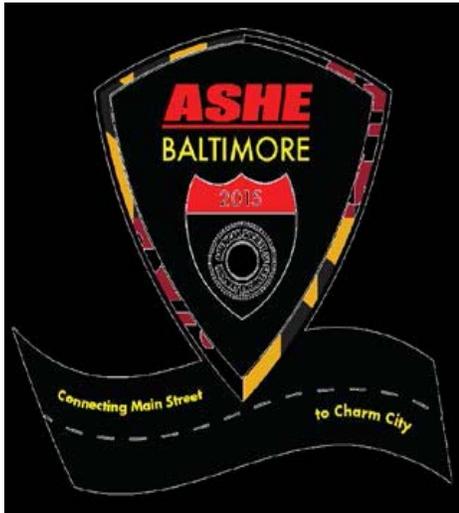
**\$40 Members**

**\$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](mailto:KPOWER@PA.GOV) OR (412) 429-4966**



# AMERICAN SOCIETY OF HIGHWAY ENGINEERS

## PITTSBURGH SECTION

### 2015-16 ASHE PITTSBURGH SECTION OFFICERS AND DIRECTORS SLATE OF CANDIDATES

#### Officers

President –	Anthony Castellone
1 <sup>st</sup> Vice President –	Paul Boggs
2 <sup>nd</sup> Vice President –	Maggie Moore
Secretary –	Jim Weaver
Treasurer –	Jerry Pitzer
Immediate Past President –	Kathryn Power
Regional Representative –	Kathryn Power

#### 3-Year Directors

Dan Cessna  
Marc Garfield  
Dave Mikec  
Mariya Rowley

#### 2-Year Directors

Jason Esser  
Pat Kane  
Jamie Unger  
Dave Williams

#### 1-Year Directors

John Lepri  
Chuck Nash  
John Nicholson  
Chris Prisk

Nominating Committee Approval – February 19, 2015

ASHE Board of Directors Approval – February 27, 2015

Respectfully submitted to the Membership – March 2, 2015

Jim Weaver – ASHE Pittsburgh Section Secretary

## PRESIDENT'S MESSAGE

**Kathryn E. Power, P.E.**



We've made it through the winter and gladly welcoming the warm, Spring time weather. Besides being a very cold and snowy couple months in Pittsburgh, the winter season was quite filled with ASHE Pittsburgh events and business. Our January meeting featuring Lou Ruzzi, P.E., brought out the largest crowd for a January meeting in our Section's history. The Pittsburgh Section sponsored a prize at this year's Future Cities Competition (look for the article featured in this newsletter). The February dinner meeting featuring Bob Latham was also highly attended, especially considering the numerous competing engineering events scheduled during the month of February. Dan and the

Young Members Committee hosted a casual networking event on one of those cold winter nights in February. Paul did an excellent job planning and coordinating the Transportation Forum Seminar at the University of Pittsburgh. It's been a busy winter!

Bring on the Spring and the sunshine! I hope to see many of you come out for some fresh air and help clean up our favorite section of highway. Our Section's Adopt-A-Highway clean-up is on April 18th at the Campbell's Run Road Interchange. And the best way to get some fresh air is by attending our Section's May dinner meeting, held at the outdoor pavilion at the Narcisi Winery on May 13th. As it has become tradition for our May meetings, Jim Foringer, P.E. will be providing us with an update on this year's construction season.

The other important Section business that will take place during the May 13th dinner meeting is the annual election of our Section's Officers and Directors. On the previous page of this newsletter, the Slate of Candidates is published. Next year's term begins on June 1st, and at which time, my term serving as your ASHE Pittsburgh President is complete. I have truly appreciated the opportunity to serve as President of this outstanding organization. The skills, wisdom, and friendships that I gained from being involved in ASHE are priceless. I owe every member of our Section a big thank you for your participation and support. And I look forward to passing the reign and gavel over to Anthony.

# Thank you ASHE Pittsburgh!

Don't forget our Section's Annual Golf Outing is on May 22nd at Ponderosa Golf Club. Be sure to register early for this very popular event.

ANNUAL  
ASCE-ASHE-CAWP-EWSP-PSPE-SAME



YOUNGER MEMBER JOINT SOCIAL

FRIDAY, APRIL 10<sup>TH</sup>, 2015

5:00 PM



<http://www.mariospgh.com/eastside/>

MARIO'S EAST SIDE SALOON

5542 WALNUT ST, PITTSBURGH, PA 15232

\$5 cover for drinks and heavy appetizers

*Come out to network with other young professionals from the Pittsburgh area and hear what the various organizations are all about! We'll see you on the roof!*

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

Former Life Member Gary D. Miller and his family.

Gary passed away on January 15, 2015. He was 72 years old. He was a civil engineer for Gannett Fleming, Inc. Gary was a highway and bridge designer.

The members of ASHE would like to congratulate our fellow member, Richard B. Kauffman, P.E. on his recent promotion at SAI Consulting Engineers. Rich was promoted to Principal and Vice-President in their Pittsburgh, Pennsylvania, headquarters.

**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](mailto:forthepr@yahoo.com) if they would like the information to be listed in the next Cross Section Newsletter.**

## ***Featured Century Club Members***

A. Morton Thomas and Associates, Inc.  
800 King Farm Blvd. Suite 400  
Rockville, MD 20850

Phone: 301.881.2545

Contact: David A. Snively, Jr., P.E.  
Email: [dsnively@amtengineering.com](mailto:dsnively@amtengineering.com)

Principals: Michael J. Wiercinski, P.E., LS, President and CEO

Type of work performed: Civil engineering, construction management and inspection, traffic and transportation design, water and wastewater systems, environmental engineering and landscape architecture



P. Joseph Lehman, Inc., Consulting Engineers  
1 Forsythe Road  
Presto, PA 15142

Phone: 814.695.7500

Contact: Tom Dougan, P.E.  
Email: [TDougan@lehmanengineers.com](mailto:TDougan@lehmanengineers.com)

Principals: P. Joseph Lehman, Jr., P.E., President

Type of work performed: Consulting engineering services, bridge design, highway design, structural design, site design and development, survey, environmental, construction, environmental remediation, GIS



Hatch Mott MacDonald  
1600 W. Carson Street  
Pittsburgh, PA 15219

Phone: 412.497.2906

Contact: Blair Stocker, P.E.  
Email: [Blair.stocker@hatchmott.com](mailto:Blair.stocker@hatchmott.com)

Principals: Blair Stocker, P.E., Darryl Brogan, P.E.

Type of work performed: 3 thousand person company with 13 practices including: highway/bridge, heavy light rail, airports, tunnels, and pipelines.



Romualdi, Davidson & Associates, Inc.  
385 East Waterfront Drive  
Homestead, PA 15120

Phone: 412.476.8201

Contact: Richard A. Bragg  
Email: [al@rdaweb.com](mailto:al@rdaweb.com)

Principals: Richard A. Bragg, Hugh L. Davidson, Irving Oppenheim, David Bizzak, Bert Davis

Type of work performed: consulting engineers—forensic engineers



# **S.R. 2040, Brownsville Broughton/Library Road Roadway Improvement Project**

**By: Rosanne C. Rodgers, P.E.  
SAI Consulting Engineers, Inc.**

Historically, traffic flow at the intersection of Curry Hollow, Brownsville Road and Broughton Roads has been problematic for travelers in the South Hills of Pittsburgh. In 1975, this intersection was deemed the “single worst intersection for green time” of all the intersections studied by the Allegheny county Department of Public Planning. With this in mind, Allegheny County Department of Public Works teamed with SAI Consulting Engineers, Inc. for the design of S.R. 2040, Brownsville Broughton/Library Road Improvement Project in South Park Township, Baldwin Borough, and Pleasant Hills Borough in Allegheny County, Pennsylvania.

The primary project goal was to provide a better and safer way to travel through the South Hills of Pittsburgh. To accomplish this, the design and construction of the Brownsville Broughton/Library Road project alleviated this once hazardous, confusing, and complex intersection by reconfiguring the main intersection of S.R. 2040 (Curry Hollow Road) with Brownsville Road to create a conventional “T” intersection. As part of this project, nearby Philippe Road became a single access dead-end street, the Brownsville Road Spur roadway was eliminated, and additional local roadway intersections were improved. Complementing the geometric roadway improvements, state of the art coordinated traffic signals, signing upgrades, storm water drainage, guiderail, and pedestrian accommodations collectively transformed the operation and safety of roadways within the project limits.



Additional design considerations and features included:

**Traffic Control during Construction** –Effective traffic control was essential to ensure that the 26,000 vehicles that travel on S.R. 2040 (Curry Hollow Road) over Lick Run could reach their destinations. Traffic was maintained during construction through the work zone in five stages with limited use of short-term detours. Business drive access and on-street parking were maintained throughout construction activities. Meetings were held with adjacent property and business owners during design and construction activities to effectively address business access needs.

**Utility Coordination** –Within the urbanized project limits, extensive underground and overhead utilities were present throughout the project limits, which required relocations prior to and during the Contractor’s construction activities. Due to the age and condition of public utilities, modifications to the planned utility work required additional considerations and coordination to complete.

**Culvert Extension over Lick Run** –The original project scope was to include total replacement of a closed spandrel masonry arch, which had been previously widened on both sides with reinforced concrete slabs carrying S.R. 2040 over Lick Run. After considerable evaluation of site conditions, existing structure conditions, potential impacts to an adjacent building structure, and traffic control requirements, an alternate design was developed to repair the existing structure and to include a 120 linear foot culvert. Advancing this alternative resulted in construction cost savings, a reduction in temporary stream impacts, and preservation of the adjacent business building structure.

**Mine Void Grouting** –The project area has long been known for mine subsidence issues, where at least three events had been recorded including one along Brownsville Road which reportedly subsided four feet. A saturation grouting program was developed to provide a solid foundation and adequate support from the grouted mine and grouted fractured overburden above the mined-out coal seam. The grouting program consisted of drilling numerous 6" grout holes in a planned sequential format and then grouting the entire area necessary to maintain the stability of the existing culvert, proposed culvert, and wingwalls. The grout area was determined using a 15-degree support angle, which extends 16' beyond the foundations. This resulted in a grout area of about half an acre. The grouting plan was to form a curtain wall around the perimeter with a low slump concrete, then saturation fill the interior with higher slump concrete. This was performed in two phases in order to maintain traffic within tight space constraints and involved approximately 2,000 linear feet of test holes, 11,000 linear feet of drilled grout holes, and 65,000 cubic feet of cement filler grout.

**Environmental Enhancement, Rain Garden** – Although structural Best Management Practices were not required at this location, a rain garden was proposed as an enhancement to provide infiltration and groundwater recharge while reducing volume and runoff in this urbanized location. Vegetated channels, swales, and graded grass areas allow overland flow, infiltration, and groundwater recharge. By protecting trees and stream banks, the peak runoff volume was reduced by preserving the existing soils and stream buffer areas, thus allowing more infiltration, groundwater recharge, and evapotranspiration. A new riparian buffer zone consisting of over 60 Pennsylvania native plantings was planted between Lick Run and Brownsville Road.

**Community Revitalization** –Local residents have noted the potential revitalization of the business area due to the demolition of neglected building structures and naturalizing of the hardscapes. The project involved total acquisition of three properties and partial acquisitions of 21 properties.

The completed Brownsville Broughton/Library Road Roadway Improvement Project not only met the transportation goals identified more than 30 years ago, but is meeting the travel needs of present day commuters, local residents, and businesses within this southwestern Pennsylvania community.

# ASHE Pittsburgh Sponsors Future City Competition



ASHE Pittsburgh Section was excited to be part of the Future City Competition held at the Carnegie Music Hall on Saturday January 17<sup>th</sup>. The Future City Competition was a national, project-based learning experience where students in 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> grade from 30 different schools imagined, designed, and built cities of the future. Students worked as a team with an educator and engineer mentor to plan cities using SimCity™ software; researched and wrote solutions to an engineering problem; built tabletop scale models with recycled materials; and presented their ideas before judges at Regional Competitions. ASHE participated

ed by sponsoring and judging the Special Award - Best Transportation System. After a very difficult decision, St. Alexis School won Best Transportation System for their efficient and innovative design. Regional winners, The Ellis School will represent our region at the National Finals in Washington, DC in February. Good Luck!



Thank you to Jamie Unger and Marc Garfield who volunteered at the event representing ASHE Pittsburgh!



**AMERICAN SOCIETY OF HIGHWAY ENGINEERS  
PITTSBURGH SECTION  
2015 SPRING GOLF OUTING**

<http://www.pittsburgh.ashe.pro/content/annual-golf-outing>



**TIME:** 9:00 AM, Friday, May 22, 2015 - **SHOTGUN START!**

**PLACE:** Ponderosa Golf Club  
2728 Route 168  
Hookstown, PA 15050

**FORMAT:** Best 1 of 4 – Traditional **HANDICAP DOTS** format  
(See website for additional details regarding scoring format prior to event)

**ATTENTION:** All golfers must be at the Pro Shop no later than 8:15 AM for registration, pairings, and directions for the SHOTGUN START. Only the first 144 golfers submitting applications (with payment) will be entered...so please submit early.

**COST:** Golf and Dinner: \$75.00 ASHE Members / \$85.00 Non-Members  
Golf Only: \$60.00 ASHE Members / \$65.00 Non-Members  
Dinner Only: \$30.00 ASHE Members / \$35.00 Non-Members

- ◆ Coffee, bagels and doughnuts before golf
- ◆ Hot dog and beer/pop after nine holes
- ◆ Snacks, beer and pop during/after golf
- ◆ Buffet dinner at 3:30 PM (all you can eat)
- ◆ Sleeve of balls and goodie bag for every golfer
- ◆ Prize for best team score and individual A, B, C and D flight scores
- ◆ Prizes for “skill” contests on course
- ◆ Many door prizes!!!

**NOTE...**Handicaps will be computed based on the most recent 3 gross scores logged by each golfer at THIS function on THIS course (40 max). Those who have never participated or have not since 2003 MUST provide handicaps within registration form below. “Last-minute” changes/submissions WITH HANDICAPS must be forwarded to [cprisk@langan.com](mailto:cprisk@langan.com) or (724) 514-5154 PRIOR to 5 pm Wednesday, May 20<sup>th</sup> in order for substitute’s foursome to remain eligible for TEAM prizes and for substitutes to be eligible for A, B, C and D flight prizes.

**REGISTRATION FORM**

NAME	EMAIL	PHONE	HDCP. (Max. 40)	MEMBER (Y) or (N)	PRICE (see above)

**Registration due by Friday, May 8, 2015. - ALL money must accompany registration form.**

**NO PHONE OR FAX REGISTRATIONS!**

TOTAL ENCLOSED \_\_\_\_\_

- ◆ Choose your own foursome or pairings. **Reminder:** Each foursome must have at least 2 ASHE members!
- ◆ If a foursome is not specified, you will be assigned one.
- ◆ Refunds cannot be guaranteed after May 8, 2015.
- ◆ Make checks payable to “A.S.H.E.” and mail to:

LANGAN  
Attn: Chris Prisk  
601 Technology Drive, Suite 200  
Canonsburg, PA 15317

# ASHE Pittsburgh Adopt – A - Highway

- Where: Campbell's Run Road Interchange (meet @ the Marathon Oil)
- When: Saturday, April 18<sup>th</sup> @ 9:00 AM
- Questions: Contact Marc Garfield - 724-935-8188  
[marc.garfield@gibson-thomas.com](mailto:marc.garfield@gibson-thomas.com)



**Thank you to the 2014-2015  
ASHE Pittsburgh Board of Directors!**



**Your service to the Pittsburgh Section is greatly appreciated.**

# ***Mark your calendars***



## **Upcoming ASHE Pittsburgh Events**

**April 10, 2015—ASHE Young Members Joint Social with ASCE, EWSP, SAME**

**April 18, 2015—Adopt-A-Highway (Campbells Run Road Interchange)**

**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**

**October 24, 2015—Past Presidents' Banquet**

## **Upcoming Events from Our Region**

**East Penn: April 7th—Sands Resort & Casino, Bethlehem**

**Northeast Penn: April 7th—Colaruzzo's LaPalazzo Moosic**

**Harrisburg: April 10th—PennDOT, ASHE, PTC—Best Western Harrisburg**

**Delaware Valley: April 15th—Radisson Valley Forge**

**Southern NJ: April 14th—Cranbury Inn, Cranbury**

**Franklin: April 21st—TBD**

**Clearfield: April 23rd—Straub's Brewery Tour, St. Mary's**

**Mid-Allegheny: April 24th—Golf Outing**

**East Penn: May 1st—Golf outing**

**Harrisburg: May 7th—Annual Past Presidents' Banquet**



**Get ASHE Updates on social media:**

**Facebook:**

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

**Twitter: @ASHEPittsburgh**

**LinkedIn: ASHE Pittsburgh**



# ASHE Pirate Game Outing

## June 13, 2015



Pittsburgh Pirates

vs.

Philadelphia Phillies

4:05 PM Game

**Tailgate at 1 PM**

**Includes:**

- ◇ Game Ticket
- ◇ Post-game concert
- ◇ Tailgating food and drinks
- ◇ Drawings for door prizes
- ◇ Games for the kids



For additional information,  
contact Paul Boggs at:

paul.boggs@trumbullcorp.com or



Tailgate will be set up in Gold Parking Lot 1, parking not included.  
Look for the ASHE banner

To register, please complete the following section & mail to: Trumbull

Registration deadline is May 23, 2015

ATTN: Paul Boggs

P.O. Box 6774

225 North Shore Drive

Pittsburgh, PA 15212

**ASHE Member Name:**

\_\_\_\_\_

**Address:** \_\_\_\_\_

\_\_\_\_\_

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

**Number of Adults:** \_\_\_\_\_ X \$45 = \_\_\_\_\_

**Number of Children (under age 12):** \_\_\_\_\_ X \$35 = \_\_\_\_\_

**Total Amount Enclosed \$** \_\_\_\_\_

**How many parking passes are needed?** \_\_\_\_\_

**On the back side, please list the age and gender of children attending.**

# ANNOUNCING

*THE 46<sup>TH</sup> ANNUAL  
PAST PRESIDENTS' BANQUET*

OCTOBER 24<sup>TH</sup>, 2015 AT HEINZ EAST HALL

## **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](mailto:kathrynpower@live.com)***