

The INTER-SECTION

September 2017



ASHE
Altoona

ASHE Altoona October Dinner Meeting

Event Details

What: Dinner and Presentation

When: October 11, 2017
Social at 5 pm
Dinner at 6 pm
Presentations at 6:30 pm

Where: Jethro's Restaurant
417 Park View Lane
Altoona, PA 16601

Presentation Details

Speakers:

Brian Krul, ASHE National Director
Topic: 55th Anniversary Presentation

Michael Castellano, Safety Engineer
FHWA-Pennsylvania Division
Topic: Roadway Safety

Dinner Selections: Choose from 3 Options

\$22 - Entree of Your Choice with Non-Alcoholic Beverage
\$27 - Entree of Your Choice with Unlimited
Domestic Beers and House Wines

The Pittsburger

½ Pound Black Angus topped with white cheddar, pulled pork, coleslaw, potato strings, and honey mustard on a brioche roll

Seafood Alfredo

Shrimp and scallops served over fettuccine alfredo

Prospector's Salad

Mountain of lettuce loaded with tomatoes, carrots, red onions, pepperoncinis, and black olives. Topped with shredded provolone, Jethro fries, steak, grilled chicken, and your choice of dressing

Please RSVP to Bill Wieserman at

w.wieserman@gaiconsultants.com

by Monday, October 9th to reserve your spot!

~Reservations made and not honored will be invoiced~

ASHE National Board Nominations for 2018-2019

REMINDER: *It's that time again to seek nominations for the Northeast Region's representation on the National Board of Directors!*

We must elect an individual to serve on the National Board of Directors. Please review the application conveniently located on the ASHE Altoona website.

Please review the [Nomination Guidelines](#) and submit your nominee by **November 4, 2017** to:

Richard N. Cochrane, PE
Secretary, Northeast Region
c/o McTish, Kunkel & Associates
3500 Winchester Road, Suite 300
Allentown, PA 18104

If you have any questions, please contact Richard:
610-841-2700 (office)
484-225-4358 (cell)

GUIDELINES

The submittal for the National Director shall include:

1. Name of Nominee
2. Address and phone number of Nominee
3. Email address of Nominee
4. Resume/biography of Nominee
5. Statement addressing the Nominee's willingness to serve
6. Name of the ASHE section placing name of Nominee into nomination



Flight 93 Tour Highlights

Flight 93 National Memorial

The Flight 93 National Memorial is located at the site of the crash of United Airlines Flight 93, which was hijacked in the September 11 attacks, in Stonycreek Township, Somerset County, Pennsylvania, about 2 miles north of Shanksville, and 60 miles southeast of Pittsburgh.

On Wednesday, September 27, ASHE Altoona members met for a self-guided tour of the Flight 93 Memorial. Attendees discovered the story of Flight 93 and explored the memorial through the convenience and versatility of their smart phones.

After the event, members met at Route 30 Cafe to have a quick bite to eat and reflect on their day.

Walkway following the flight path



*Top: Course and timeline of Flight 93
Bottom L: "A common field one day. A field of honor forever."
Bottom R: Entrance to the memorial*



Our Nation will Eternally Honor the Heroes of Flight 93

On the morning of September 11, 2001, the deadliest terrorist attack in U.S. history took place when four commercial airliners were hijacked by members of the Islamic extremist group al-Qaeda. The first two planes, American Airlines Flight 11 and United Airlines Flight 175, were flown into the two towers of the World Trade Center in New York City. A third plane, American Airlines Flight 77, hit the western side of the Pentagon, just outside Washington, D.C. The fourth hijacked plane, United Airlines Flight 93, crashed down in a field in rural Pennsylvania, never reaching its intended target because its crew and passengers fought back against the terrorists. Nearly 3,000 people lost their lives during the 9/11 attacks, a number that would almost certainly have been significantly higher if not for the actions of those aboard Flight 93.

In the weeks following the September 11 attacks, temporary memorials to the victims of United Flight 93 were erected at the Pennsylvania crash site and elsewhere, and in 2002 Congress established the Flight 93 National Memorial to create a permanent tribute to the plane's passengers and crew. The first phase of the memorial was completed in time for the 10th anniversary of the terrorist attacks in September 2011. Administered by the National Park Service and encompassing more than 2,220 acres, the memorial includes a visitor center, memorial tree groves, a mile-wide Field of Honor and the crash site itself, known as "Sacred Ground"—the final resting place of the heroes of Flight 93.

***** We Will Never Forget! *****



Builder's Club of the Month

Roadway Asset Management



Multi-Discipline Civil & Structural Engineering:

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Roadway Asset Management

Adding efficiencies to forecasting, budgeting, scheduling, and managing roadway projects at Penn State.

Maintaining a roadway system is a challenging business. A reactive, uncoordinated approach results in inefficiencies, increasing potential for total roadway failure and expensive reconstruction. The Pennsylvania State University recently acted to avoid these consequences by working with Stahl Sheaffer Engineering to implement a process to prioritize and budget for repairs over a 20-year period, based on the following major factors:

Condition – To assess roadway condition, Stahl Sheaffer conducted a 3D LiDAR scan of 100 miles of university roads, using a vehicle-mounted 360° camera and a dual laser scanner. From the resultant point cloud data and 360° imagery, technicians extracted features for roadway distresses and attributes and exported them as geodatabase entries or shapefiles. Stahl Sheaffer also created a Linear Referencing System (LRS), like PennDOT's Segment/Offset system, to locate and associate features in tables, reports, and maps. The data was analyzed to determine Pavement Condition Index (PCI) for each roadway segment as outlined in ASTM D6434-09 *Standard Practice for Roads and Parking Lots Pavement Condition Index Surveys*.

Criticality – Working closely with university personnel, Stahl Sheaffer devised individual prioritization factors to fit within Penn State's asset management software. Each factor was weighted to determine a numeric criticality ranking for each roadway segment.

Maintenance Expense – This includes costs incurred over time to keep assets functioning at desired service levels. As roadways deteriorate, maintenance needs change. Newer roads require relatively inexpensive preventive maintenance. As they age, more costly maintenance is expected until overall surface rehabilitation is completed. Deferring or failing to perform preventive maintenance results in additional expense to perform overall rehabilitation or reconstruction earlier in the service life. To predict maintenance expenses, a curve modeling the expected deterioration rate of the roadway is used. The expected distress type and quantity can be applied to the curve at a corresponding PCI, creating a trigger that assigns a specific repair modality and associated cost.

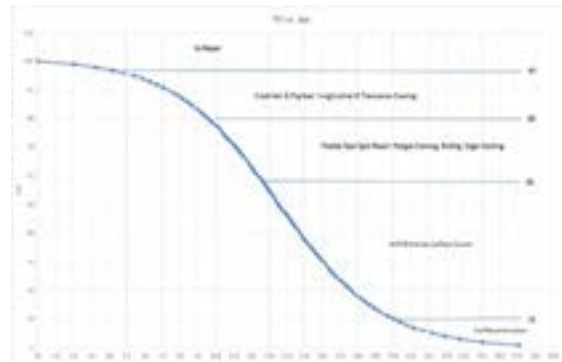


Figure 1. Paved Roadway Maintenance Condition Deterioration Curve and Repair Triggers

Budgets – Budgets can be predetermined based on funding availability or calculated based on the need to maintain assets at a certain service level.

Condition, Criticality, Maintenance Expense, + Budget = Maintenance Prioritization

The goal of combining these factors is to focus resources on more valuable projects. For example, performing a crack seal and sealcoat on a heavily-traveled road in the heart of campus is prioritized over full-depth reconstruction of a highly-deteriorated service road on the outskirts.

The Maintenance and Repair Prioritization Tool developed for Penn State provides specific maintenance schedules and costs for each roadway segment over 20 years. The tool automatically recalculates scheduling, maintenance options, and costs as updated PCI, repairs, and/or budget numbers are entered. Options can be changed to level resources or show at what point deferred maintenance becomes a capital expense. Annual budgets can be manually adjusted to find the desired balance between fund allocation and service life of the network.

Figure 2. Sample Roadway Repair Prioritization Schedule

Happy 55th Anniversary ASHE Altoona Section!

The ASHE Altoona Section is celebrating its 55th Anniversary. Let's take a look back at what was happening in the world in 1962, the year the ASHE Altoona Section was founded:

Cost of Living in 1962:

Average income per year: \$5,556

Average cost of a new car: \$3,125

Gas per gallon: \$0.28

Major News Stories in 1962:

John Glenn becomes the first American to orbit the Earth in February of 1962

First Beatles single "Love Me Do" is released

Oral Polio Vaccine used to combat polio

Andy Warhol unveiled his famous soup can painting

Johnny Carson begins as The Tonight Show presenter

The U.S. Navy Seals were created

Marilyn Monroe famously serenades President Kennedy with a breathy rendition of "Happy Birthday." Sadly, a few months later, she is found dead

Cuban Missile Crisis takes the world to the brink of war

First Walmart, K-mart, and Motel 6 opened

President Kennedy proposes a "Consumer Bill of Rights"

"The Beverly Hillbillies" and "The Dick Van Dyke Show" debuted on TV

First James Bond movie "Dr. No" was an instant success

The Space Needle in Seattle is completed in time for the 1962 World's Fair

Marvel's Spider-Man makes his first appearance in a comic

~ *Congratulations ASHE Altoona Section!* ~

The Connector...

Where in District 9-0 are Penny and Dottie?



Penny & Dottie

COME ON, VENTURE A GUESS!

Where do you think Penny and Dottie are visiting in the beautiful countryside of District 9-0?



Hint: *This structure is the last surviving 19th century truss bridge in Bedford County*

(The answer will be published in the next edition of the Inter-Section.)

Answer to Last Month's Clue: *Route 26 between Marklesburg and Entriken, near Raystown Lake*



ASHE Builder's Club Members

Thank you for supporting the ASHE Altoona Section!

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Matt Walerysiak

Newsletter

Editor

Dave Hoglund

dhoglund@rettew.com

Please submit your contributions for the next edition by October 16, 2017.



The Roundabout...

Industry Events & Other Chapter Happenings

Date	Event
October 6	PennDOT 3rd Annual SECA Golf Tourney (Shadow Lakes GC, Aliquippa)
October 10	ASHE North East Penn Dinner Meeting (Colarusso's LaPalazzo)
October 11	ACEC/PA Central Chapter Meeting (West Shore CC)
October 11	ASHE Altoona Dinner Meeting/Presentation (Jethro's Restaurant)
October 17	ASHE Franklin Dinner Meeting (Hunters Station)
November 15-17	APC/PennDOT Fall Seminar (Hershey Lodge)

Save the Date! A look ahead...

November 2017: ASHE Altoona Rocky Gap Casino Bus Trip

December 13, 2017: ASHE Altoona Holiday Dinner

May 17-20, 2018: ASHE National Conference (Westin Cleveland Downtown)

Career Opportunities

Visit the [ASHE Altoona website](#) and click "Career Opportunities."

Builders Club Sponsors can submit jobs to be posted by emailing Matt Walerysiak at mwalerysiak@markosky.com



Please like us on Facebook

If you wish to be involved with the ASHE Altoona section for the 2017-2018 season, please contact Chuck Stajewski at 412-264-8701 or at cstajewski@msconsultants.com