



ASHE

SCANNER

Fall 2013

www.highwayengineers.org



Highway Engineering, Plantations,
and Archaeology: Where the Present
Intersects the Past . . . Page 4

ALSO INSIDE:

2013 ASHE National Conference . . . page 11

Future Goals for the

Northeast Florida Section . . . page 21



is proud to present our
2013-2014 SPONSORS

URS

TPD TRAFFIC PLANNING AND DESIGN, INC.
Est. 1989
www.TrafficPD.com

pennsylvania
DEPARTMENT OF TRANSPORTATION

JBC
ASSOCIATES, INC.

benesch
engineers • scientists • planners

Reilly
ASSOCIATES SINCE 1930

KCI
TECHNOLOGIES

Pennoni
PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

GPI
Greenman-Pedersen, Inc.
Engineers, Planners, Construction Engineers and Inspectors

explorers
Geotechnical and Foundation Engineers

ceco
associates inc.
consulting engineers

RETTEW
We answer to you.

ARROW
LAND SOLUTIONS, LLC
A CERTIFIED DISADVANTAGED
BUSINESS ENTERPRISE

L.R. Kimball
ARCHITECTURE • ENGINEERING • COMMUNICATIONS TECHNOLOGY

CIWA
design/construction solutions

Baker

THE Markosky
ENGINEERING GROUP INC.

HIGHWAY
EQUIPMENT & SUPPLY CO.

MKA Consulting Engineers
Environmental Scientists
Construction Inspectors
McTish, Kunkel & Associates
Allentown • Pittsburgh • Montoursville

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future®

Borton Lawson
ENGINEERING
ARCHITECTURE

HDR

WR&A WHITMAN, REQUARDT
& ASSOCIATES, LLP
ENGINEERS • ARCHITECTS • PLANNERS // EST. 1915
www.wrallp.com

LEEWARD
CONSTRUCTION, INC.

Shoener Environmental

GREENHORNE & O'MARA
CONSULTING ENGINEERS

Gannett Fleming

STAFURSKY PAVING CO., INC.

Stantec

Cabot Oil & Gas Corporation
CLEAN ENERGY. STRONGER COMMUNITIES.



**AMERICAN SOCIETY
OF HIGHWAY ENGINEERS**

OFFICERS 2013 - 2014

Thomas S. Morisi	President
Samir Mody, PE	First Vice President
Robert Hochevar, PE	Second Vice President
Frank O'Hare, PE/PS	Past President
Charles L. Flowe, PE	Secretary
David Jones, PE	Treasurer

1 Year Directors	Region
George H. Willis, PE	Northeast
Nikki G. Reutlinger, PE	Southeast
John W. Franz, Jr.	Northeast
David Greenwood, PE	Mid-Atlantic

2 Year Directors	
Michael R. Martin, PE, AICP	Mid-Atlantic
Caroline Duffy, PE	Great Lakes

3 Year Directors	
Alice M. Hammond, PE	Northeast
Greg Dutton, PE	Southeast
Thomas Bolte, PE	Great Lakes

New Sections Contact	
Perry Schweiss, PE	Northeast
Tim Matthews	Southeast

Shirley Stuttler	President's Assistant
Sandra Ivory	Public Relations Contact

MISSION

Provide a forum for members and partners of the highway industry to promote a safe, efficient and sustainable highway system through education, innovation and fellowship.

NATIONAL HEADQUARTERS

65 Beacon Hill
Henderson, NC 27537
(919) 909-2987
ashenational@embarqmail.com

www.ashe.pro

The *SCANNER* is published quarterly by the American Society of Highway Engineers. Statements of fact and opinion are the responsibility of the authors alone and do not imply an opinion on the part of the officers or the members of ASHE. © 2013 ASHE.

Table of Contents

President's Message 3
 Highway Engineering, Plantations, and Archaeology 4
 2014 ASHE National Conference..... 7
 Recycled Plastic Bridges - Part of the U.S. Highway System 8
 2013 ASHE National Conference..... 11
 MileMarkers 16
 As the Wheel Turns 19
 Future Goals for the Northeast Florida Section 21

Advertisers

AECOM 20	HDR Engineering, Inc..... 20
ARCADIS 18	Johnson, Mirmiran & Thompson, Inc. 20
Arora and Associates, P.C..... 24	Jones-Stuckey Ltd. Inc. 23
ASHE National Store..... IBC	Keller Engineers, Inc. 12
ASHE North East Penn..... IFC	McKim & Creed 2
Berding Surveying..... 14	Michael Baker Corporation 20
Buchart Horn Inc. BC	Parsons Brinkerhoff 10
Cardno TBE 24	Pennoni Associates 14
Erdman Anthony..... 6	Sucevic, Piccolomini & Kuchar Engineering, Inc. 14
Fulcrum International 24	Whitney, Bailey, Cox & Magnani LLC..... 23
Gibson-Thomas Engineering Co. 24	

ASHE National Membership Database Upgrade

ASHE is excited to roll out its new web-based membership database. Each member can access and maintain his or her own membership data. National's goal is that this database will become the common database that both National and the Sections use to maintain all membership information.

To access the database, go to www.database.ashe.pro. You must input your personal ID number which is an eight digit number located on the *SCANNER* mailing label. This will be your ASHE ID number for as long as you are a member of the Society. Your initial password is the zip code (including the dash if it is a nine-digit code) also on the mailing label. **Change your password after your initial login to ensure the security of your data.**

Please take your first opportunity to review and update your personal data in the database.



Take A Look At Our

EXPANDING

Field of View.

From the air, on the road, in the water or underground—**McKim & Creed** delivers complete surveying, LiDAR and utility mapping services. Our industry-leading geomatics technologies and extensive experience ensure accuracy and efficiency.

See how innovation can work for you: mckimcreed.com.

©2012 McKim & Creed, Inc.



ENGINEERS
SURVEYORS
PLANNERS

President's Message

Thomas S. Morisi
ASHE National President 2013-2014

I hope you and your family had a nice summer and you were able to enjoy the season with family and friends. My family and I had a great time over the summer. As you well know, life can be busy so time passes rather quickly.

This article was prepared during the summer months for publication in this fall issue of the *SCANNER*. We are in a time just after the National Conference but before many Sections start up fall meetings, so activities within the organization are limited. However, fall promises to be an active time at the Region level and I hope to have a report on that activity for you in the winter issue.

The National Conference at Lake Placid was a grand success according to many in attendance. Congratulations to the Albany and Central New York Sections for such a great Conference. The amount of time and hard work that went into hosting the Conference was obvious. It is truly amazing what a group of volunteers working together can do.

Volunteers working together is what I would like to discuss in this article. In doing so, I would also like to give you a deeper insight into our organization that many of you may not know. ASHE currently has a total membership in excess of 6,400. At the National level, the organization is run almost completely by volunteers. We do have two paid part-time staff members, the President's Assistant and the Secretary's Assistant. Our overall annual budget at the National level is approximately \$210,000. By comparison, in discussion with a partner organization of approximately 2,500 members, we learned they had three full-time staff members at the National level and an annual operating budget more than twice that of ASHE.

The nine National Directors, six National Officers, more than 20 National Committee and Subcommittee Chairs, and numerous National Committee members are all volunteer positions who serve ASHE at the National level. These members all work diligently to run the day-to-day operations, increase membership, start new Sections, maintain guidelines, produce the *SCANNER*, maintain the National website, and so much more. It was not until I became involved at the National level that I realized how hard individuals work to make ASHE successful.

While the Sections are our driving force, the National Board sets direction and keeps the overall organization cohesive. All of the volunteers at the National level work well together to achieve our overall success. They spend a great deal of time away from their families and work to ensure the advancement of ASHE.

As I said, the 41 Sections are our driving force. A similar number of volunteers at each Section all work equally as hard to make ASHE a viable organization. They are educating members, creating social opportunities, growing membership, maintaining websites, raising funds, distributing scholarships, and providing a variety of important services to members and our industry. The Sections represent individual groups of volunteers, sometimes of competing firms, working together for an unselfish, common goal. Their success is a fine example of what can be accomplished by teamwork.

While each Section is somewhat different, they all work toward the goals set by the national organization. If you are actively involved with your Section, I would strongly encourage you to visit or converse with another Section to see how they operate. If you are struggling in a certain area, I'm sure you are not alone. I'm sure another Section has experienced that same problem. Take advantage of ASHE's communication tools. Post your issue on LinkedIn, ask your Regional Director to bring it up at a Region Board meeting, or simply grab some Section email addresses from the National website and email your fellow Sections. Tap into the vast knowledge base of industry members we have available.

Let us not forget the newest level of volunteerism within ASHE, the Region Board. Since the reorganization at the Region level, we have been struggling to establish our Regional Boards. Each Region is currently at a different level of evolution. However, they are all now focused and moving forward with their organizational efforts. Several members have been in touch with me to discuss ideas and to keep me updated on what is happening in the Regions. I am truly encouraged and amazed by the effort that is being put forth by yet another group of hard working volunteers.

The bottom line is that I am confident in what I see at the National, Region and Section levels. We have a wealth of knowledge in the organization that is working hard to make us flourish. Thank you to everyone out there working for ASHE. You are truly the reason for our success. Do not forget to stop at times, look at



"Message" continued p. 23

Highway Engineering, Plantations, and Archaeology:

Where Present Intersects Past

Brad Botwick and Rita Folse Elliott
New South Associates, Inc., Stone Mountain, Georgia

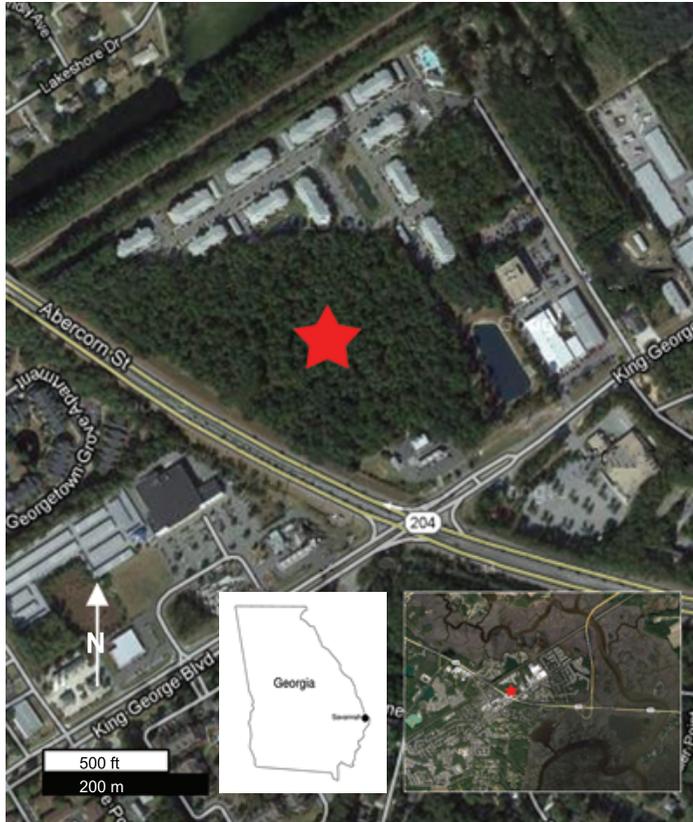


Photo 1. Site 9CH1205 is at the intersection of SR204 (Abercorn Extension) and King George Boulevard in Chatham County, Georgia (Google 2013, modified).



Photo 2. Archaeologists excavate soil from units across the site.

Entering the woods, cool filtered shade replaces bright sunlight as one encounters a 400-year old live oak that once overlooked a plantation community of enslaved African-Americans. Birdsong softens the din of motorcycles from the adjacent four-lane road. The journey from the 21st Century to the past is both figurative and literal on these 20 acres.

As early as 1750, colonists claimed this property through English Crown grants. By the late 1700s, this land, south of Little Ogeechee River in Chatham County, Georgia, had become part of a large plantation. The plantation has disappeared, leaving behind only archaeological remains and the live oak, now cloaked in a wooded tract surrounded by encroaching development (Photo 1). Population growth and suburban development south of the City of Savannah have led to significant congestion on SR 204/Abercorn Extension. The Georgia Department of Transportation (GDOT) plans to replace the at-grade intersection of SR 204 at King George Boulevard with a grade separated interchange that will reduce delays and crash rates. Construction will adversely impact archaeological site 9CH1205, triggering Federal laws mandating archaeological investigation and enabling the rare opportunity to document life at the site nearly 200 years ago.

The study combines archival research, fieldwork, and analysis to understand how the site's former occupants lived. Archaeologists from New South Associates, Inc., in consultation with GDOT, worked at the site from February to May, 2013, uncovering traces of houses, storage pits and other features and artifacts that provide significant information about daily life (Photo 2). Enslaved African-Americans left few written accounts of their experiences, and archaeology is one way to learn how they lived and formed communities within the constraints of slavery.

No historical documentation about the settlement was found, but land records indicate the property was owned by various individuals between the mid-1700s and later 1800s. The associated plantation house was approximately one-half mile away from the archaeological site, suggesting that the site was a slave settlement

located near the agricultural fields. This arrangement differs from the stereotypical southern plantation dominated by the planter's house with slave houses arrayed nearby. Maps show a small cluster of unlabeled buildings in the general vicinity of the site, which might represent the settlement (Photo 3).

Archaeological fieldwork recovered direct evidence of three structures, including two houses with brick chimneys and one small building with a trench foundation. Rather than brick, some chimneys at the site were likely built of clay and logs. A large borrow pit nearby probably provided the raw material for these. Archaeologists found several storage pits three feet in diameter and up to three feet deep. The locations of these pits could indicate as many as five houses in addition to the three known from architectural remains.

Artifacts included an assortment of household items such as European and American-made ceramics and glass bottles, metal implements such as cast iron kettles, and buttons (Photo 4). Artifacts with known dates, such as coins, suggest the site was occupied through the Civil War and minimally into the 1870s, an indication that Freedmen returned to the property. Oyster shells suggest that residents harvested the nearby estuaries for food, while an iron trap and lead shot indicate they hunted small animals and birds. Archaeologists collected soil samples to test for further traces of plant and animal foods. The on-going analysis is expected to yield important information about African-Americans enslaved on Georgia plantations, including how they organized settlements and used their domestic yards, their degree of autonomy, and how they differed from slaves who lived closer to the planter's house.

Since this study was conducted with public funding on behalf of the public, GDOT and New South Associates incorporated a program of public access to encourage visitors to participate in tours and follow the work through social media. (For more information see "Abercorn archaeology" on Facebook.) The project included creation of a children's book and development of an educator's curriculum using site information to teach state-mandated standards. A total of 1,098 visitors came to the site for 90 minute tours during nine weeks (Photo 5). Visitors included neighborhood residents, Savannah-Chatham County staff, homeschool, elementary, undergraduate and graduate students, members of museums and historical organizations, scouts, Federal agency staff, tourists, military, and the media. Many were surprised to discover that unlike Federal protections offered the site through GDOT, most archaeological sites in historic Savannah and Chatham County remain unprotected due to the lack of city or county ordinances. These sites are subject to destruction without archaeological excavations that could save their unique and valuable information.

Field work was completed in May, 2013. Road construction is scheduled to begin in 2014. An archaeology report is scheduled for delivery in 2014. Artifacts and field notes will be curated in perpetuity, where they can be studied to provide new understandings of the site. The 400-year old oak will be preserved as a heritage tree, symbolizing the site's historic community and the benefits that can accrue through the intersection of engineering, design, and preservation. ■



Photo 3. This 1865 Coastal Survey map shows several structures, probably houses, in and adjacent to the project area, as well as a large plantation house away from the site (Dennis 1865).



Photo 4. One of the larger artifacts from the site, this is the lip and top of a clear-glazed redware crock that was discarded when it broke beyond repair.



Photo 5. Visitors, such as these local Boy Scouts on tour, were exposed to a variety of concepts demonstrating the importance of archaeology as a tool for uncovering the stories of those silent in history.

ERDMAN ANTHONY ENGINEERING

We'll Get You Where You Need to Go.

Like the roads and highways we engineer, Erdman Anthony has a destination: **client satisfaction**. And we drive hard to get you there.

We've been meeting and exceeding customer expectations for over half a century. In that time, our clients' trust in our capabilities has grown tremendously. We now provide project management and design review services to some of our largest transportation clients, in addition to offering the high quality design services they have come to expect from Erdman Anthony. And with multiple offices in New York, Pennsylvania, and Florida, we're close at hand and ready to put our experience to work for you.

The projects below provide a brief sampling of our recent successes. If you'd like to know more, please give us a call.



Lake Champlain Bridge Replacement between Crown Point, NY, and Chimney Point, VT
Owner: New York State Department of Transportation, Region 1

Erdman Anthony was selected to provide erection engineering support in the initiative to replace the Lake Champlain Bridge—developing structural calculations to ensure safe, step-by-step steel erection, and preparing plans for the multi-girder approaches, delta frames, and tied-arch span.



Mills Road Pedestrian Bridge, Montgomery County, PA
Owner: Pennsylvania Department of Transportation

Erdman Anthony provided preliminary engineering, final design, and construction services for the rehabilitation of a 130-foot, two-span steel truss bridge over Skippack Creek that provides a pedestrian/equestrian link in the Evansburg State Park trail system.



SR A1A, Ft. Lauderdale
Owner: Florida Department of Transportation, District 4

Erdman Anthony provided roadway design and land surveying services on this one-mile, 3R project. Services included milling and resurfacing, sidewalk/ADA construction, signing and pavement marking, street lighting, signalization, and landscaping.

For more information, visit our website or call our Transportation Engineering Services Core Business Leader Richard E. Stees, PLS, at (717) 766-1741.

ERDMAN
ANTHONY 

www.erdmananthony.com

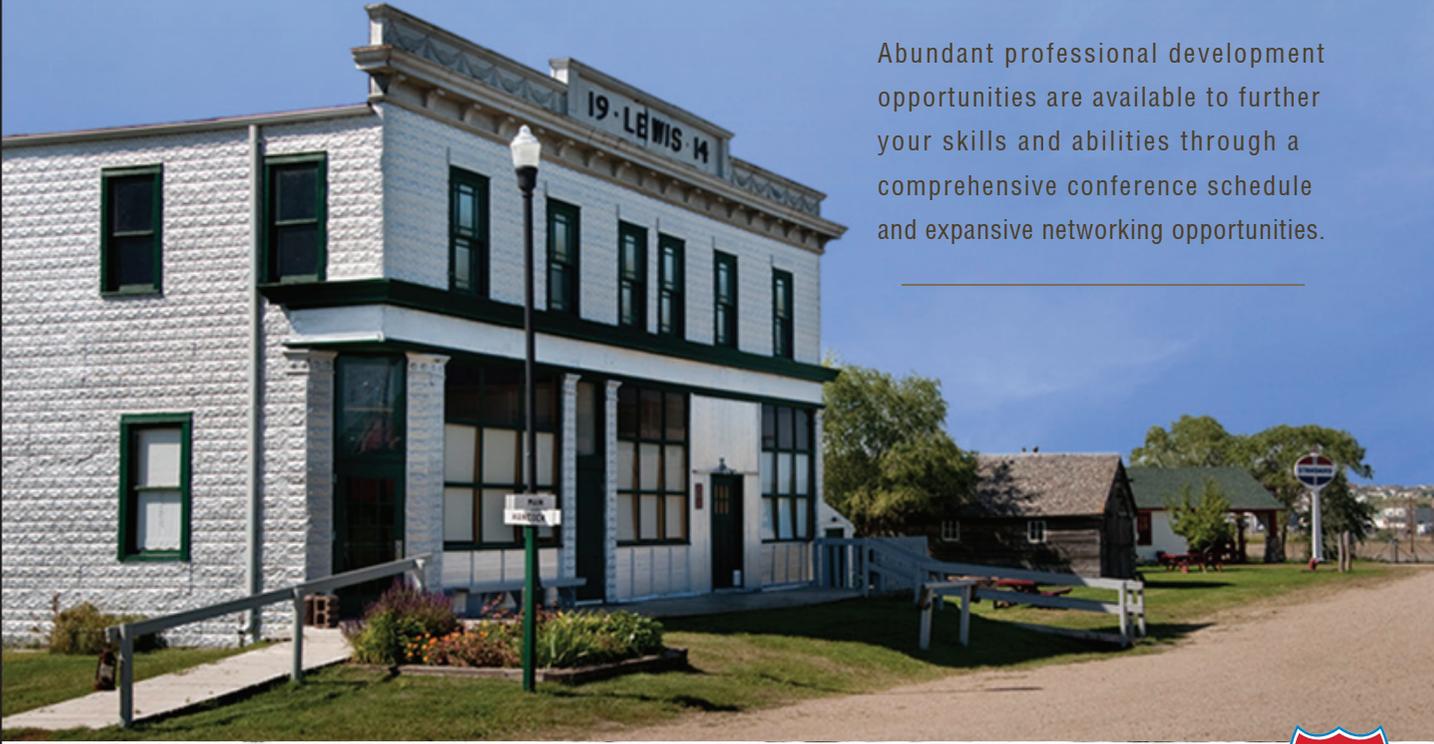
NY: ALBANY • BUFFALO • HUDSON VALLEY • ROCHESTER
PA: HARRISBURG • PITTSBURGH FL: WEST PALM BEACH • ORLANDO



JOIN US AT THE 2014 ASHE NATIONAL CONFERENCE AND EXPERIENCE A DESTINATION WEST EXPLORING NORTH DAKOTA!

ADVENTURES ALONG THE WAY

Technical Sessions and Outings | Medora Musical | Tour Bismarck
Trails of the Badlands and Theodore Roosevelt National Park | Golf Outings
Ride the Missouri Riverboat | Pitchfork Fondue in historic Medora



Abundant professional development opportunities are available to further your skills and abilities through a comprehensive conference schedule and expansive networking opportunities.

For more information or to view conference details, visit

WWW.2014.ASHE.PRO





Thermoplastic bridge in Maine.

Recycled Plastic Bridges Part of the U.S. Highway System

Vijay Chandra, P.E. and John S. Kim, Ph.D., P.E.

An innovative thermoplastic construction material made of recycled plastics was introduced to the market about 20 years ago. The thermoplastic structural composite manufactured by Axion International was first utilized for railroad cross ties and has progressively extended its application to bridge structures. Since the first bridge application of this material in 1998, most thermoplastic bridges were constructed within non-national highway system such as state parks or military bases where the AASHTO design criteria were not strictly required. With continuous improvement in material and design, a couple of thermoplastic bridges have been constructed in the U.S. highway system in the past two years.

The first thermoplastic bridge constructed in the U.S. highway system was opened in Maine in December 2011. This new bridge, located on Birch Hill Road west of York Harbor, replaced the existing concrete culvert as the waterway was widened from three feet to 12 feet to resolve frequent inundation issues in the region.

Parsons Brinckerhoff (PB) designed this two-lane thermoplastic bridge that can carry AASHTO HL-93 load. The entire bridge components, including girders, piles, pier caps, abutment backwalls, and wingwalls, are made of recycled post consumer and industrial plastics that would otherwise be discarded into landfills. Unlike the previous thermoplastic bridges, this bridge is the first one where the thermoplastic structural composite was utilized to construct abutments and wingwalls. Semi-integral abutment bridge concept was innovatively incorporated to support various bridge loads, including the lateral earth pressure from both abutments.

The bridge deck consisted of multiple 18" I-beams placed side-by-side. For accelerated bridge construction, the bridge deck was pre-fabricated in three-beam clusters connected with one inch diameter tie rods before being transported to the bridge site. Because the skid resistance of the thermoplastic deck surface is not enough for highway vehicles, the entire bridge deck was covered with four inch aggregate base and three inch asphalt concrete overlay.

Due to erratic soft soil layers and uncertain skin resistance of the pile, the 12-inch diameter thermoplastic piles were driven to a firm bearing stratum ignoring the skin capacity. Pile installation was performed by using a vibratory hammer first and driving to final set criteria utilizing a diesel impact hammer. Since the thermoplastic piles are produced in length of 45 feet, some of them needed to be spliced using a clamping steel pipe connector with through-bolts on each splice piece.

The contractors had a learning curve since this material was new to them. With technical understanding and experience in bridge design, PB's bridge design team was able to respond to the construction challenges to complete the bridge construction in time and within the budget.

Another thermoplastic bridge constructed in the National Highway System was opened to the public in Ohio in December 2012. Logan County was awarded a Federal fund of the Innovative Bridge Research and Deployment Program to replace an aged timber deck bridge using the sustainable thermoplastic material.

The Logan County Engineer's Office utilized county staff to construct their first thermoplastic bridge with an exception of pile driving. The bridge over Onion Ditch was built in an accelerated manner, called Accelerated Bridge Construction (ABC) that is presently being recommended by the FHWA to be nationally employed. To expedite the construction process, each beam cluster

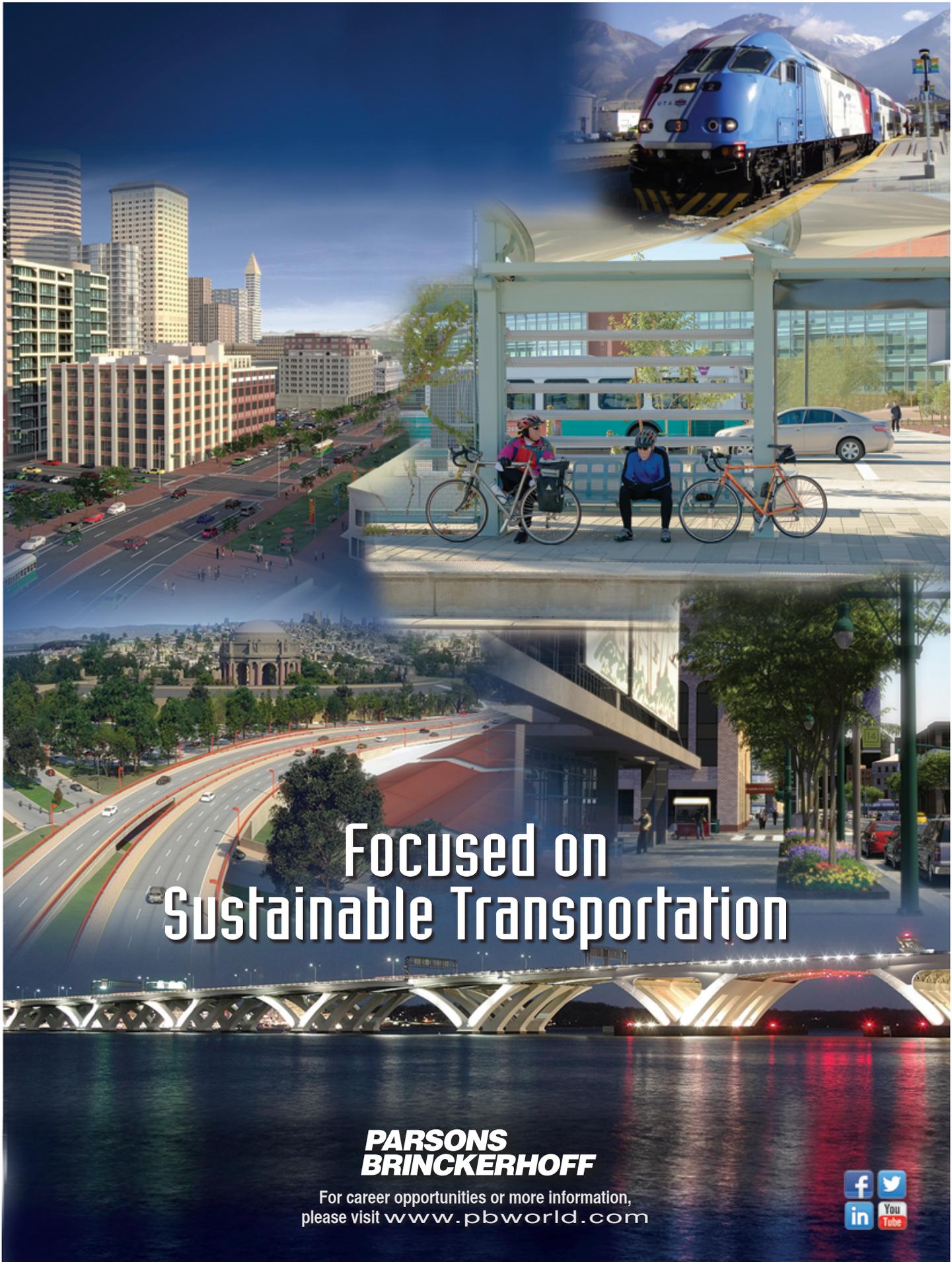
that consists of two 18" I-beams and cover plates on top of the beams was prefabricated at the factory and then shipped as one piece to the bridge site. Owing to prefabrication process and easy handling of this light weight thermoplastic composite, it took only three days to construct the bridge superstructure.

The bridge has a 25° skew and is approximately 25 feet long and 25 ft wide. PB's bridge design team successfully developed the world's first thermoplastic composite section that primarily consisted of the six inch deck panels and 18" I-beams. This composite section enabled the bridge span length to reach up to 25 feet, which is the longest of its kind to support the current AASHTO HL-93 load. The same bridge team also designed the world's first guardrails made of recycled plastics that satisfied the AASHTO barrier requirements for TL-2 level.

The abutment backwalls consisted of three inch thick and 12-inch wide planks screwed into pilings that were driven in a line 3.25 feet on center at each abutment. Since the total required pile lengths ranged from 10 feet to 15 feet, no pile splicing was needed for this bridge. Like the Maine bridge case, the semi-integral abutment bridge design concept was utilized to effectively support all the bridge loads specified by the current AASHTO specifications. The bridge superstructure was designed not to exceed a deflection of Span Length/425 under the HL-93 load. The bridge deck surface was overlaid by waterproofing membrane, four inch aggregate and three inch asphalt concrete overlay.

This new sustainable material can provide a cost-effective solution to the currently deteriorating infrastructure and at the same time provide an excellent solution to the environmental issues of plastic waste. Its use will undoubtedly increase as more research and development efforts are continuously made to enhance the material properties and manufacturing technologies. ■





Focused on Sustainable Transportation

**PARSONS
BRINCKERHOFF**

For career opportunities or more information,
please visit www.pbworld.com



2013

ASHE NATIONAL CONFERENCE LAKE PLACID, NEW YORK



The Judges have posted their scores!

The 2013 ASHE National Conference scored a near-perfect 10!

Judge 1, Frank O'Hare: *"Open skate time on the 1980 Miracle on Ice brought me back to my youth – 10.00."*

Judge 2, Tom Morisi: *"Lighting the Olympic Flame which sparked off the fireworks display was my highlight – 10.00."*

Judge 3, Shirley Stuttler: *"The New York hospitality was tops – 10.00."*

Judge 4, Richard Stees: *"My grandsons, Noah and Justin, were thrilled with the bobsled competition – 10.00."*

Judge 5, Nikki Reutlinger: *"The high-flying ski jumpers were awesome...and cute – 10.00."*

Judge 6, Charlie Kincaid: *"The food was great, but I couldn't get a peanut butter and fluff sandwich – 9.95."*



The Conference planning committee hopes a great time was had by all in Lake Placid. The **Albany** and **Central New York** Sections pulled out all the stops and treated Conference attendees to a once-in-a-lifetime event. The Crowne Plaza Resort and Golf Club was the host venue, complete with Adirondack atmosphere and majestic mountain views. Over 300 ASHE members, family, speakers, sponsors, and exhibitors joined Conference co-chairs John Franz and Michael Hurtt, and the 2013 Conference volunteers for four days of activities. Activities included meetings, continuing education courses, special events at the Olympic venues, entertainment, meals, and of course, a hospitality room that never closed. The weather may have dampened the ground, but not the spirit of the conference.



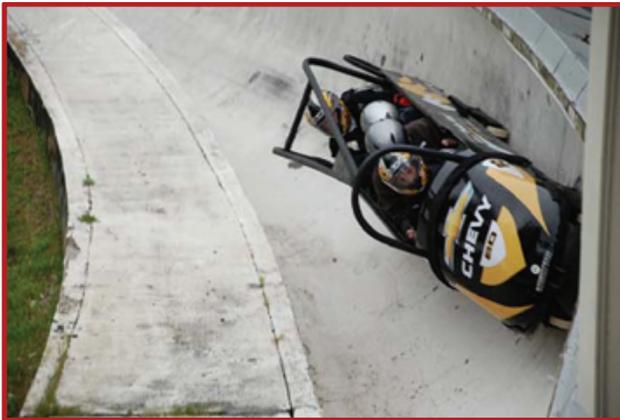
Keller Engineers' multi-discipline professional transportation engineering staff brings extensive experience to all facets of:

- Bridge
- Highway
- Bridge Inspection
- Construction Inspection
- Railroad

www.Keller-Engineers.com

The Conference began Wednesday with an Earlybird Cocktail Reception and musical entertainment in the Great Room overlooking Mirror Lake. The hospitality room opened immediately thereafter.

On Thursday, a Bobsled Competition between the ASHE Sections was held at the Mt. Van Hoevenberg Olympic Sports Complex. Participants competed in a timed bobsled run with a professional driver and brakeman, and toured the new facility. Later that evening, the Icebreaker Reception was held in the Exhibitor Hall with over 36 vendors, a well-stocked buffet, and the entertainment of *the Stilwell Experience*.



Friday was busy, starting with the Opening Session, where the Pittsburg Section claimed the prize of “most attendees,” just barely beating out the Albany Section. ASHE was once again honored by keynote speaker Victor Mendez (FHWA Administrator), a firm supporter of ASHE’s mission. Special guest speaker, ‘former NYS Governor and President of the United States, Theodore Roosevelt’, treated members with his special words about our profession and the Adirondack area.



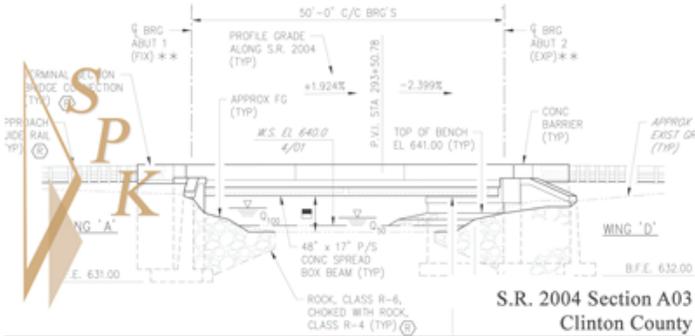
Friday continued with an array of continuing education sessions and meetings. Richard Stees was honored as the Robert E. Pearsons Person of the Year at the Past President’s Luncheon. Thomas Madison, Executive Director of the New York State Thruway Authority was the luncheon’s keynote speaker, presenting on what is currently New York’s largest public works project, “The Tappan Zee Bridge Replacement.”

Gold, silver, and bronze medals were awarded to winners of the bobsled competition by gold, silver, and bronze Conference Sponsors. Bragging rights go to the First State Section as winner of the quickest average bobsled runs. Runners-up were the Central Ohio and Georgia Sections.

Friday evening, attendees were shuttled to the Olympic Training Center for a barbecue buffet, and to watch young Olympic hopefuls perform aerobatic ski jumps into the training pool and high-flying jumps on the 90-meter Nordic Ski Jump. Attendees could watch the action at the landing area, while riding the chair lift to the top, or from high above in the 120-meter tower at the top of the facility. Just as the action was winding down, an Olympic tradition heated up...the passing of the Olympic torch from participant to participant, ending with the current ASHE National President Frank O’Hare symbolically passing the torch to incoming President Tom Morisi. As Tom lit the Olympic cauldron with the Olympic flame, a spectacular fireworks show closed the evening.



**Sucevic, Piccolomini &
Kuchar Engineering, Inc.**
Consulting Engineers and Land Surveyors



**STEADFAST IN PERFORMANCE, LOYAL IN SERVICE
STRONG IN FOUNDATION, AND STEADILY BUILDING**



Phone: 724.439.1600 126 Kaider Road, Uniontown Pa, 15401 www.spkengr.com

**PROVIDING ENGINEERING
SERVICES SINCE 1966**

Traffic Signal System Design • Traffic Studies • HOP Reviews
ITS • Toll Revenue Projection Studies • Municipal Traffic Engineering
Highway Design • Bridge Design • NBIS • Underwater Inspection



Pennoni

PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

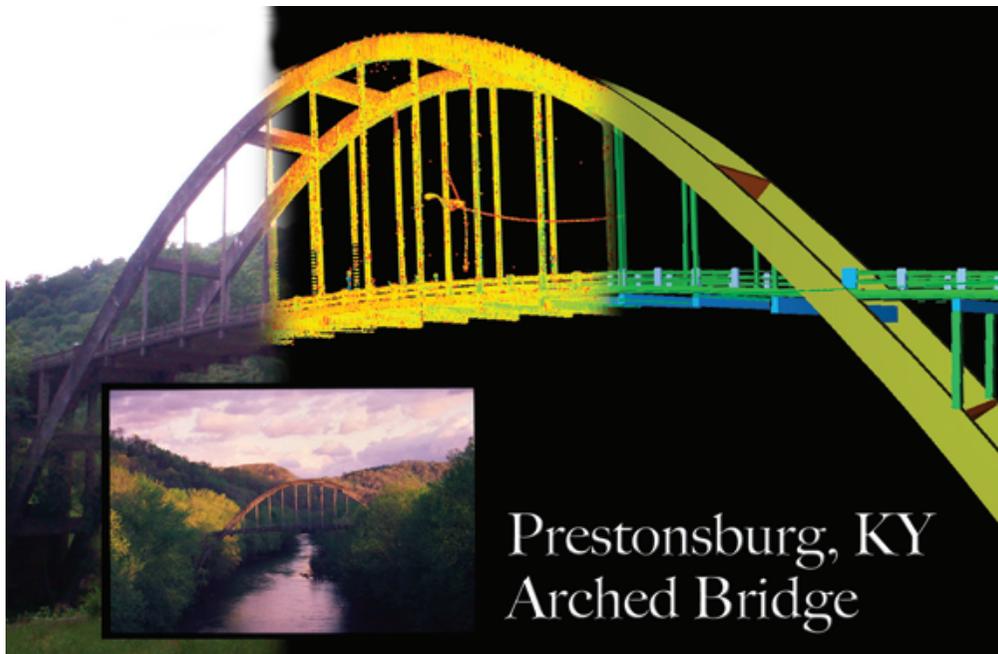
Offices Located in:
Pennsylvania, New Jersey, Delaware, Maryland, New York, Virginia, & New England

www.pennoni.com

**SUPPORTING THE DESIGN PROFESSIONAL WITH DETAILED
3D SCANNED DATA OF THE BUILT ENVIRONMENT...**

Consider our scanning service as a supplement to your own in-house survey efforts or count on our expertise as the solution for all your base mapping needs.

"Berding Surveying serves the transportation, architectural, energy and plant design professionals with solutions that accurately model and describe the built environment."



- Berding Surveying provides complete as-built data capture for your bridge, structure and roadway projects.
- Data easily integrates with aerial and conventional base survey mapping.
- Little or no interruption to traveling public.
- Accesses hard to reach, remote or unsafe structures.
- Survey grade results.



Berding Surveying

GPS Surveying • 3D Laser Scanning
741 Main St., Milford (Cincinnati), OH 45150

www.berdingsurveying.com
(513) 831.5505 • (888) 254.5755



Saturday was a day of golf at the Lake Placid Golf Club. Others participated in guest tours to Ausable Chasms, the Adirondack Museum, the Wild Center, and the Crown Point Historic Site and Bridge Tour. Many members were able to get some skating time (and a few slap shots) on the 1980 Olympic hockey rink where the “Miracle on Ice” occurred.

Saturday night closed the Conference with the President’s Reception and Annual Banquet. It was at the banquet that our new ASHE National Officers and Board Members were sworn into office, and special awards were presented. Included in the awards were ASHE Lifetime Achievement, Richard Prentice; ASHE Young Member of the Year, Patrick Herl; ASHE Member of the Year, Perry Schweiss; and President’s Award, Jacob Morisi. The ASHE 2014 Conference Co-chairs then enticed all members to join them in Bismarck, ND with their “Go West” presentation. The evening’s festivities ended with the big horn sounds of the *NY Player’s Body and Soul*.



ASHE members involved in the planning and execution of a National Conference can attest to the years of hard work and dedication required to make a National Conference successful. The entire 2013 ASHE National Conference Committee and Volunteers are now part of that group and their efforts are to be commended. Despite less-than-perfect weather, all events went off without a hitch and we hope all conference participants thoroughly enjoyed the experience of Lake Placid. We also hope that the 2013 ASHE National Conference lived up to its name...“*The Peak of Perfection!*”

Visit the Conference website, www.ASHE2013.org for photos of the entire conference.



MileMarkers



Albany Section

Thruway Reconstruction and Mobility Improvement Project

The ASHE Albany Section participated in a tour with the ASCE Hudson-Mohawk Section. The tour visited the \$99.7 million New York State Thruway Reconstruction and Mobility Improvement Project located between Exit 23 (Albany, I-787) and Exit 24 (Albany, I-87, I-90). The project section of the Thruway was constructed in the 1950s and improvements are needed to relieve congestion in this heavily trafficked commuter corridor.

Project improvements will include reconstruction of existing pavement over the seven mile Thruway section. In addition, a third travel lane in both the northbound and southbound direction will be added. Eight sections of noise abatement barriers will be installed and the highway drainage system will be upgraded. In accordance with National Environment Policy Act (NEPA) regulations, 1.8 acres of new wetlands will be constructed to offset the impact to wetlands due to project construction. The project is scheduled to be completed in fall 2013.

Ken Murray, PE, Project Engineer for the NYS Thruway Authority led the tour for 25 ASHE Albany and ASCE Hudson Mohawk Section members through the project site. At the time of this tour, over 21 lane miles of new Portland Cement Concrete Pavement (PCCP) had been placed as a part of the project. Attendees learned details about the PCCP placement operations and the current on-time project schedule.



The logo features the ASHE shield on the left, followed by the text "ASHE Southwest Penn" in a bold, sans-serif font. To the right, "Anniversary Celebration" is written in a cursive script. A large, stylized red "50" with a star in the zero dominates the right side, with "YEARS 1963 - 2013" written in red below it.

The SOUTHWEST PENN Section marked its 50th anniversary on April 26, 2013 at the Historic Summit Inn located in Uniontown, PA. One hundred thirty members/guests attended the dinner/dance to celebrate the chartering of the section in January 1963. National President Frank O'Hare, National Board Member Alice Hammond and twenty two former section presidents joined us for the festive occasion.



SOUTHWEST PENN has had several members aspire to ASHE National Leadership roles which have included three National Presidents, National Secretary, National Treasurer and eight National Board members. Growing from a handful of members in 1963 to our current membership of 300 ranks the section as the 5th largest nationally.





Connecting Lives and Livelihoods

Living and working in the same communities you do, we understand the impact of fast connections and mobility choices on the quality of life.

At ARCADIS, we create connections, designing efficient, well-running transportation systems that bring mobility, safety and improved quality of life to communities.

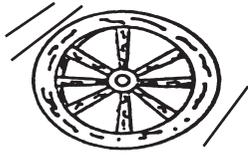
Contact us at infrastructure@arcadis-us.com to learn about mobility solutions for your community.

Together we can do a world of good.

www.arcadis-us.com

Imagine the result





As the Wheel Turns



Pennoni Associates is pleased to announce that **John Hetrick, PE, PLS**, has joined the firm as construction services division manager in the firm's Uniontown office.

"John is an experienced and talented manager who we are excited to have on our team," said Regional Vice President for Construction Services Andrew Pennoni, PE. "His expertise and focus on clients' needs will enhance our construction services in western Pennsylvania."

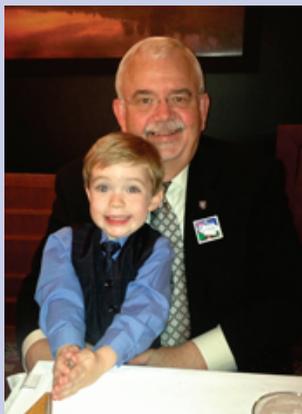
Mr. Hetrick has more than 40 years of experience. His specialties include construction management and construction inspection. He is knowledgeable in construction standards and has a comprehensive understanding of infrastructure construction for clients that include the Urban Redevelopment Authority of Pittsburgh, the Allegheny County Airport Authority, the Pennsylvania Department of Transportation, and the Pennsylvania Turnpike Commission. In addition to being a registered Professional Engineer in Pennsylvania, he is also a registered Professional Land Surveyor. A graduate of the Pennsylvania State University, he is a member and past national president of the American Society of Highway Engineers.



John A. Derr, P.E., a senior vice president and director of the West Region of Gannett Fleming, based in the Phoenix, Ariz., office, has been elected for another three-year term to the board of directors of the American Road and Transportation Builders Association (ARTBA). In this role, he will represent Gannett Fleming's sustained investment in the nation's transportation infrastructure through 2016.

With more than 26 years of experience in the transportation industry, Derr has led multiple project improvements on the National Highway System. His project experience includes numerous environmental evaluations, conceptual and preliminary engineering, final design for design-bid-build and alternative delivery projects, and construction oversight for several departments of transportation and national transit agencies.

Derr holds a Bachelor of Science in civil and environmental engineering from The University of Wisconsin-Madison. He is a licensed professional engineer in Arizona, Florida, Maine, Pennsylvania, and Texas. Additionally, he is an active member of the American Society of Highway Engineers (ASHE), the Institute of Transportation Engineers, and the International Bridge, Tunnel, and Turnpike Association. His awards include the National 2011 ASHE National Member of the Year award and the ARTBA 2010 Guy Kelcey Award.



Frank O'Hare served as President for the American Society of Highway Engineers (2012-13.) ASHE is thankful for the time he served in this capacity and all the positions leading up to it. Based on this photo taken at the 2013 ASHE National Conference, it is clear where Frank will be spending at least some of his time now. (Pictured here: Pop and Davis.)

Creating Value ...



... Delivering Solutions

Program & Project Management • Planning • Design • Construction Management & Inspection • Traffic Studies • ITS • NEPA Studies • Cultural Resources
Public Involvement • Mapping & GIS • Context Sensitive Solutions & Visualization
Software Development • Training • Asset Inspections & Inventories

Creating value by delivering innovative and sustainable solutions for infrastructure and the environment.

Baker

To learn more about Baker's comprehensive services, visit www.mbakercorp.com or call 1.800.553.1153

AECOM

**CREATE.
ENHANCE.
SUSTAIN.**



Creating, enhancing and sustaining the world's built, natural and social environments.

www.aecom.com



www.jmt.com
Toll Free (800) 472-2310

Our Markets:

- Transportation
- Buildings & Facilities
- Water, Wastewater & Utilities
- Federal Programs
- Information Technology



Our Services:

- Surveys & Mapping
- Planning
- Design
- Program & Construction Management
- Environmental & Sustainable Solutions
- Innovative Project Delivery



HDR

TRANSPORTATION
www.hdrinc.com



Forward Thinking

ENGINEERING SERVICES

- Highways
- Bridges
- Geotechnical
- Traffic
- Planning
- Design & Construction Management
- Environmental

Future Goals for the Northeast Florida Section

Len Pappalardo, PMP, LEED AP | President – Northeast Florida Section of ASHE

Being part of a professional organization such as ASHE, is just the type of situation where we can become complacent, and forget that in order to grow and prosper we need a solid plan. Board members are often recycled through director positions, treasurers and secretary positions are held for long periods by the same members, and Section leadership begins to just do things “the way we’ve always done it.” That’s not entirely bad because it lends stability to an organization, but board members must be diligent in their efforts to affect positive change. With stability and complacency comes a resistance to change. That’s not to say that all change is good, but positive changes that can diversify, strengthen and grow a Section are essential.

In April 2013, I was coming off my first year as Section President and had been nominated to run for my second and final year in June. One of my first year Directors said “So, what do you think about having a Strategic Planning Session?” We discussed it over lunch and I pulled out the notes from our Section’s 2010 Planning Session. I quickly realized how much we had accomplished as a board since 2010. I was so pleased that I wrote a letter to each board member and laid out for them all of our accomplishments over the previous three years. I thanked each one of them for their support and diligence in helping achieve those goals, and invited them to our second Strategic Planning Session.

On July 12, 2013 the Northeast Florida Section of ASHE held its second Strategic Planning Session, with nine board members attending. We began with a brainstorming session in which we mapped out our primary goals. Our session moderator solicited our “Big Ideas” for the Section, writing them all down on a flip chart. We broke down our “Big Ideas”, until we simply had three primary “Section Goals” - Increasing Membership Engagement, Increasing Membership Diversity and Increasing Revenue.

We then broke into three teams, consisting of three board members, with each team taking one of the Section Goals and breaking them down into Action Steps and Needs. Action Steps were the things we needed to do in order to accomplish each goal and Needs were the things we needed to support and ensure that each Action Step could be accomplished. Once we laid out our Action Steps and Needs, each group then laid out a three year plan, which detailed expectations for each goal over the next three years. For example, Increasing Revenue by 10% in year one of the plan, and 20% each, in year’s two and three, for a total of 50% increase in three years.

Each team presented their plan to the group and a “Champion” was named for each of the three Section Goals. This Champion will have sole responsibility over ensuring that Needs are met, Action Steps are completed, and the three year plan

stays on track. Our three Chapter Goals have been added to our Board Agenda, and each Champion will report on progress and accomplishments made, relative to the goal for which they are responsible, at each month’s board meeting.

*With stability and complacency
comes a resistance to change.*

This final step of monthly reporting is critical to the success of our plan, and it should be part of any successful plan. Monthly reporting will keep the board up to speed on the progress of our goals and will ensure that additional resources are provided when needed to make sure the Section goals are met.

I know that there are myriad ways of implementing a strategic planning session, and the methods we employed at the Northeast Florida Chapter may not be for everyone, but I will tell you that there are two ingredients that are absolutely essential to any successful planning session and they are; a willing and flexible board, and an experienced and focused moderator. With those two ingredients, combined with some good old fashioned hard work, I believe that we could improve not only our individual chapters, but the American Society of Highway Engineers on a national level as well. ■



Advertising Contract

PLACE OUR AD AS MARKED

Choose issues	Indicate ad size	SCANNER Issue	Print Date	Closing Date – Ads & Articles
		Winter 2014	December 5, 2013	October 15, 2013
		Spring 2014	March 5, 2014	January 15, 2014
		Summer 2014	June 5, 2014	April 15, 2014
		Fall 2014	September 5, 2014	July 15, 2014

ADVERTISING RATE SCHEDULE

Position	Fee per one issue	Fee per four issues
1 full page	\$ 600	\$ 2,200 (\$ 550 / issue)
1/2 page	\$ 500	\$ 1,800 (\$ 450 / issue)
1/4 page	\$ 375	\$ 1,400 (\$ 350 / issue)
Business card	\$ 275	\$ 1,000 (\$ 250 / issue)
Classified	E-mail text to editor for quote	
Consultants, contractors & suppliers	\$ 200 annually. Link your company to the ASHE website.	
<i>Revised February 2009</i>		

ADVERTISING CONTRACT

Advertiser Information			
Advertising Company:			
Contact:			
Address:			
City, State, Zip:			
Phone:		Fax:	
E-mail:			
Invoice will be mailed to advertiser listed above unless otherwise noted. Checks payable to ASHE SCANNER. Contract must be received before ad placement. Terms 30 days.			
Signature:		Date:	

AD SPECIFICATIONS

<ul style="list-style-type: none"> Electronic file formats: PDF or Windows Platform, Photoshop, Illustrator, eps, tif or jpg. File must contain layout, all image files and fonts used. Ads are printed in color. 	
Ad size:	Width Depth
Full page	7.5" x 10"
1/2 page	7.5" x 4.75"
1/4 page	3.667" x 4.75"
Business card	3.667" x 2.25"
Screen:	Scanned photos at no less than 300 dpi
Send ad files and contract to:	
Jennifer Summers P 717.236.2050 F 717.236.2046 jennifer@wannerassoc.com	

ASHE Profile

The SCANNER is published quarterly by the American Society of Highway Engineers and delivered to over 6,000 readers nationwide.

- 13% are State D.O.T. Employees
- 69% are Engineering Consultants
- 7% are Contractors
- 11% are Related Professions
- 54% of the membership has a professional status

SCANNER Correspondence

John Hetrick, PE, Managing Editor
c/o Wanner Associates
908 N. Second Street; Harrisburg, PA 17102
P 717-236-2050 | F 717-236-2046
jlhetrick12@gmail.com

"Message" continued from p. 3

what you have accomplished, and be proud of those accomplishments. You deserve it. See the fruits of your labor and be reinvigorated for your next challenge.

In closing, I would like to give you a quick update on what is happening at the National level.

- * Members of the ASHE Regional Oversight Committee are working to establish each Regional government.
- * We are working directly with two Sections that are currently struggling.
- * The Strategic Planning Committee is having monthly conference calls to evaluate our progress.
- * This is the year in which we need to recertify our IACET Membership.
- * Several new partnerships with other organizations are being investigated.
- * National is setting up a file server that will allow electronic storage of our documents in one location. The files will be backed-up regularly.
- * Several Bylaw changes are being considered.
- * New Sections west of the Mississippi are being actively pursued.

This is just a quick sample of what is happening at the National level. Once again, thank you to all of our members that are making ASHE the success it is today. Keep up the good work! ■

Whitney Bailey Cox & Magnani, LLC (WBCM), a full service AEC firm, is seeking a **Transportation Project Manager** for our expanding operations in our King of Prussia and Mechanicsburg, Pennsylvania offices. The individual shall have a minimum 10 years of progressive engineering and management experience in highway and/or bridge design, and possess a thorough knowledge of applicable PennDOT design criteria and regulatory requirements. The candidate shall be proficient in Microsoft Office Suite, Microstation, InRoads, and applicable PennDOT design, management, and scheduling software. The applicant must possess a Bachelor of Science degree from an ABET accredited engineering program and must be a registered Professional Engineer. For more information on the position, or to apply, please visit our website at www.wbcm.com. WBCM is an EOE.



Client driven and committed to diversity, innovation, value and excellence



BALTIMORE PHILADELPHIA HARRISBURG PITTSBURGH
www.wbcm.com 800.673.9312



Jones-Stuckey
Civil + Structural Engineering | Est. 1965



Award Winning Bridge Design
Highway Design + Bridge Inspection + Load Ratings
Civil/Site Design + Sewers + Waterlines
Recreation + Parks Facilities + Environmental Studies
Construction Administration

Columbus 614.486.0401 www.jonesstuckey.com **Akron** 330.794.7957

Post New Job Openings

ASHE's Online
Job Bank Partner

www.thefulcrumintl.com

Check our website for the most current job openings.

Michael Baker Jr. - Business Development/
Engineer - Alexandria, VA

CHA Companies - Roadway - Project Engineer -
Pittsburgh, PA

FDOT-District Five - Roadway - Sr. Project
Manager - Deland, FL

Alfred Benesch & Co - Civil or Structural
Engineer - Sr. Project Manager - Chattanooga,
TN

TY Lin - Project Engineer, Bethlehem, PA

So-Deep, Inc. - Subsurface Utilities Engineer,
Eastern Pennsylvania, PA

Faller, Davis and Assoc., - Stormwater Technical
Manager, Tampa, FL

The Fulcrum International offers a 10% discount to ASHE Members on new job postings.



Contact:
info@
thefulcrumintl.com
407-228-1747

Committed to Quality and Client Satisfaction



*Excellence in Engineering &
Consulting Services Since 1916*

- Water/Wastewater Management
- Transportation/Structural Engineering
- General Civil Engineering
- Surveying & Land Development
- Construction Inspection
- GIS & ITS Services

**From Planning &
Design to
Permitting, Project
Management &
Inspection, Gibson-
Thomas will Guide
You Every Step of
the Way.**

**ISO 9001:2008
CERTIFIED**



Gibson-Thomas Engineering Co., Inc.

Corporate Headquarters:

1004 Ligonier Street, Fifth Floor
P.O. Box 853 ■ Latrobe, PA 15650
Phone: 724-539-8562 ■ Fax: 724-539-3697
gtemain@gibson-thomas.com
www.gibson-thomas.com

LATROBE ■ HARRISBURG ■ PITTSBURGH ■ CLARION ■ INDIANA

FOCUSED ON EVERY DETAIL



Contact:
Mark Pitchford, PLS
Southern Region
727.531.3505
Mark.Pitchford@Cardno.com

Bob Clemens
Northern Region
317.585.3540
Bob.Clemens@Cardno.com

John Harter, PE
Western Region
727.531.3505
John.Harter@Cardno.com

- Subsurface Utility Engineering
- Ground Penetrating Radar
- 3D Underground Imaging
- Utility Coordination
- Utility Relocation Management
- Utility Relocation Inspection
- Surveying and Mapping

What is Subsurface Utility Engineering?
Learn more - SubsurfaceUtilityEngineering.com

800.861.8314



ARORA and ASSOCIATES, P.C. Consulting Engineers

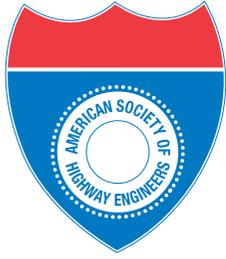
- HIGHWAY AND BRIDGE DESIGN
- SEISMIC DESIGN & RETROFIT
- HYDRAULICS & HYDROLOGY
- SURVEYING & MAPPING
- UTILITY ENGINEERING
- CONSTRUCTION MANAGEMENT
- BRIDGE & STRUCTURAL INSPECTION
- GEOTECHNICAL ENGINEERING
- ELECTRICAL & LIGHTING DESIGN
- INFRASTRUCTURE SECURITY
- LANDSCAPE ARCHITECTURE
- TRAFFIC & TRANSPORTATION



Corporate Headquarters:
1200 Lenox Drive, Suite 200
Lawrenceville, NJ 08648

Tel: 609-844-1111 • Fax: 609-844-9799
e-mail: arora@arorapc.com
visit us at www.arorapc.com

Certified Minority Business Enterprise
New York • New Jersey • Pennsylvania



ASHE

Online Apparel &
Merchandise Store

Introducing the ASHE Online Apparel & Merchandise Store

As a member of ASHE, you now have access to an amazing online resource: The new ASHE Online Apparel & Merchandise Store.

This store offers branded, logo'd merchandise that celebrates your membership, looks fantastic and is easy to order at the click of a button. Sign on today and look to see all the great items available:

- Embroidered Apparel
- Branded Apparel
- Speaker Gifts
- Bags & Totes
- Caps & Hats
- Picnic/Outing Items
- Eco-friendly Items
- Golf, Sports & Outdoors
- Tradeshow Items
- Luggage and Travel

Best of all, each item only takes about two weeks from the time you order till you have it in-hand!

****Rush Service Available!**

www.ashe-store.cathyrossner.com

OR

www.highwayengineers.org

Use the pull down menu for
ASHE Company Store

For more info:
Cathy Rossner
775-787-2003
cathyrossner@
earthlink.net

CMG
Creative Marketing Group
A Division of PROforma Albrecht & Co.



ASHE SCANNER
 John Hetrick PE, Managing Editor
 c/o Wanner Associates, Inc.
 908 N. Second Street
 Harrisburg, PA 17102

Change Service Requested

PRESORTED
 STANDARD
 U.S. Postage PAID
 Harrisburg, PA
 Permit No. #741

ASHE Membership

Northeast Region

Albany.....	107
Altoona.....	200
Central New York.....	52
Clearfield.....	94
Delaware Valley.....	395
East Penn.....	126
First State.....	152
Franklin.....	205
Harrisburg.....	372
Long Island.....	25
Mid-Allegheny.....	98
New York Metro.....	131
North Central New Jersey.....	209
Northeast Penn.....	121
Pittsburgh.....	532
Southern New Jersey.....	199
Southwest Penn.....	309
Williamsport.....	158
Subtotal.....	3485

Mid-Atlantic Region

Blue Ridge.....	81
Carolina Piedmont.....	59
Carolina Triangle.....	260
Chesapeake.....	209
Greater Hampton Roads.....	124
N. Central West Virginia.....	34
Old Dominion.....	90
Potomac.....	203
Subtotal.....	1060

Southeast Region

Central Florida.....	45
Georgia.....	437
Gold Coast.....	7
Middle Tennessee.....	155
Northeast Florida.....	210
Tampa Bay.....	103
Subtotal.....	957

Great Lakes Region

Central Ohio.....	187
Circle City.....	49
Cuyahoga Valley.....	116
Derby City.....	71
Lake Erie.....	131
Northwest Ohio.....	38
Triko Valley.....	115
Subtotal.....	707

North Central Region

Central Dacotah.....	123
Subtotal.....	123

Rocky Mountain Region

Phoenix Sonoran.....	114
Subtotal.....	114

At-Large Membership

At-Large.....	7
Subtotal.....	7

National Total.....6453

Total Membership.....	6453
Professional Status.....	55%
Government.....	13%
Consultant.....	69%
Contractor.....	6%
Other.....	12%

TRANSPORTATION | ARCHITECTURE | ENVIRONMENTAL

**BUCHART
HORN, INC.**

**Strengthening Communities
through Engineering Excellence**

Services include:
 Bridge | Highway | Survey | Inspection
 Planning | Construction Services | Aviation

ba
**BUCHART
HORN, INC.**
 Strengthening Communities®

Offices located throughout:
 Pennsylvania | Louisiana | Maryland | Mississippi
 New Jersey | Tennessee | Virginia | West Virginia
 800-274-2224 | www.bh-ba.com

