



**ASHE**  
*Southern New Jersey*

# Winter 2017 Newsletter

*Upcoming Events*

Wednesday, February 15  
**Environmental Monitoring  
 and Archaeological  
 Monitoring During  
 Construction**  
 The Hamilton Manor,  
 30 NJ-156,  
 Hamilton Township, NJ 08620

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**Message from the President**

**Carrie Strehle, ASHE SNJ President 2015-2017**

*Happy New Year!* We can all look forward to a positive 2017 after the passing of the Transportation Trust Fund late last year.

Our December program, which was a joint event with ASHE NC-NJ, highlighted that milestone with [Dana Hecht presenting NJDOT's](#) upcoming capital program and timeline for anticipated projects. The attendance was overwhelming with over 100 attendees.

Our Membership Committee recently sent an email out requesting feedback from our current and past members. Thank you to all who participated. Our entire Board has read the responses and will utilize the comments and suggestions in future planning.

Many of the comments we received revolved around student involvement. ASHE SNJ has made [student involvement](#) a priority this past year and I apologize that we haven't done enough in making those efforts known to our members. Richard Grubb, George Lobman, and John Eric Henson developed a Student Outreach presentation and visited several schools to get the word out about ASHE SNJ. That initiative led to the formation of ASHE Rowan.

I want to give a big thank you to Godfrey Joyner, ASHE Rowan President, and Parth Bhavsar, ASHE Rowan Faculty advisor. Without their vision and dedication, the ASHE Rowan Section would never have gotten off the ground. ASHE Rowan will officially become a Charter on October 31, 2017.

The ASHE SNJ Section is dedicated to ASHE Rowan and will make changes in our program schedule moving forward to ensure we have more field trips and networking opportunities that fit within their college schedule.

Our dedication to student involvement is not just limited to Rowan. ASHE SNJ understands that students are the future of our organization. We encourage students from all local colleges/universities to attend our events. In fact, we are offering a limited amount of free student registrations at each of our monthly programs. Spread the word and contact our membership chair, Richard Grubb, with additional information. His email is [rgrubb@rgaincorporated.com](mailto:rgrubb@rgaincorporated.com).

To continue with our focus on students, please join ASHE SNJ and ASHE Delaware Valley at our joint [Scholarship Fundraiser](#) being held on January 26<sup>th</sup> at the Blue Cross River Rink in Philadelphia. It should be a fun event!!

Please take note that ASHE SNJ will now be using PayPal to process online payments, which will allow members to use AMEX credit cards. We will now be able to accept credit card payments at the door. Due to ASHE National Guidelines, our web address will be changing to [www.southernnj.ashe.pro](http://www.southernnj.ashe.pro). This website is now active and our old web address will be discontinued at the end of the year.

Thank you for your continued support and participation! I hope to see you at an upcoming event.

Carrie Strehle  
 President, ASHE SNJ

## Spotlight on McCormick Taylor: Route 35 Reconstruction Revives and Improves Jersey Shore Corridor

By: Ken Burkhardt, P.E., PTOE and Nabil Hourani, P.E.



Hurricane Sandy devastated New Jersey's shoreline in October 2012, and propelled the Route 35 corridor roadway improvements in Ocean County into overdrive, as it became one of the State's top priorities to rebuild and restore safe travel on this critical coastal evacuation route. The reconstruction of mileposts 0-4 was one of three construction contracts issued to repair a 12.5 mile section of damaged roadway on the Barnegat Peninsula. The project addresses the southernmost region, stretching from Berkeley to Toms River along the coast.

McCormick Taylor was responsible for the final design and construction engineering services for the complete reconstruction of mileposts 0-4, as well as obtaining environmental permits for the entire 12.5 mile stretch of roadway. Eight environmental permits/approvals were required for the project: USACOE Nationwide Permit, NJPDES 5G3 Construction Stormwater General Permit, and NJDEP CAFRA/Waterfront Development Individual Permit, Freshwater Wetlands Individual Permit, Treatment Works System Approval, Tidelands Approval, Green Acres Approval and State Historic Preservation Office Approval. NJDOT and the McCormick Taylor team successfully accelerated design and emergency permit authorization of this complex project, within just a four month schedule.



Prior to Hurricane Sandy, Route 35 frequently flooded and lacked drainage systems in several locations. Since this area sits just above tidal elevations, five stormwater pump stations were necessary to provide adequate drainage capacity for the 25-year design storm. Prior to this project, stormwater entered



Barnegat Bay, classified as Category One Waters, untreated. As a result of construction, all stormwater is treated to remove debris and sediment and long standing local flooding issues have been resolved. Impacts to environmental resources including open waters, wetlands, submerged aquatic vegetation, shellfish beds, parklands and historic resources were minimized by McCormick Taylor’s drainage and stormwater management design; 21 points of discharge to the bay were reduced to 5.

The project also included Complete Streets and traffic calming elements to enhance safety and provide improved pedestrian and bicyclist accommodations. Some of these elements included: upgraded sidewalks and pedestrian facilities at signalized and unsignalized intersections; the addition of bike lanes where feasible; bulb-outs at select intersections; and a High-intensity activated crosswalk (HAWK) beacon to facilitate pedestrian access to the Bay Front Piers & Park. In addition, all of the curb ramps and sidewalks were brought into ADA compliance

Despite the challenges of unforeseen underground utility conflicts and a harsh winter during construction, the construction engineering support of McCormick Taylor aided in keeping the project on schedule; as of July 2015, all travel lanes on Route 35 were reopened, just in time for the busy summer season.



## Spotlight on Taylor, Wiseman & Taylor (TWT) Services: Subsurface Utility Engineering

Subsurface Utility Engineering (SUE) is an engineering practice that combines civil engineering, surveying, and geophysics to manage the risk associated with mapping utilities. Using SUE, Project Designers use this information to reduce potential utility conflicts during the design of their projects, and Contractors also use the service to avoid damaging existing utilities when they work in utility intensive areas. Since 1991, the Federal Highway Administration has encouraged the use of SUE to promote construction safety and cost effectiveness for all city, county, and state highway projects where underground utilities are present.



Until 2003, the practice of collecting, recording and managing subsurface data was widely unregulated. At that time, and in response, the American Society of Civil Engineers (ASCE) developed *ASCE C-I 38-02, Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data*, which defined the practice of SUE (<https://www.fhwa.dot.gov/programadmin/asce.cfm>). Many countries, including Canada, Great Britain, Australia, Malaysia, and Ecuador, followed the US by creating similar standards.

Taylor, Wiseman & Taylor has been performing complete utility designating and locating services for public and private sector clients for more than 20 years. Recent public sector clients include NJDOT, PennDOT, NJ Turnpike Authority, and PANYNJ. We provide a full range of SUE services as defined within the ASCE Standard Guidelines. The ASCE system to classify existing subsurface utility data is in accordance with four quality levels:

- Quality Level D: The most basic level of information for utility locations, coming solely from existing utility records or verbal recollections, both typically unreliable. QL-D is useful primarily for project planning and route selection activities.

- Quality Level C: Surveying visible above ground utility facilities (e.g., manholes, valve boxes, etc.) and correlating this information with existing utility records (QL-D). With QL-C, it is not unusual to find that many underground utilities have been either omitted or plotted erroneously. Its usefulness is therefore limited to rural projects where utilities are not prevalent, or are not too expensive to repair or relocate.
- Quality Level B ("Designating"): The application of surface geophysical methods (electromagnetic, sonic, etc.) to determine the existence and horizontal position of virtually all subsurface utilities within a project's limits. The information obtained in this manner is surveyed to project control and addresses problems caused by inaccurate utility records, abandoned or unrecorded facilities, and lost references.
- Quality Level A ("Locating"): The highest level of accuracy currently available. It provides information for the precise plan and profile mapping of underground utilities through the actual exposure of underground utilities (usually at a specific point), and also provides the type, size, condition, material, and other characteristics of underground features. Exposure is typically achieved through hand digging or vacuum excavation.



It is Taylor Wiseman & Taylor's extensive background in the field of surveying – since 1901 – that makes our SUE capabilities unique in the industry. We fully understand the importance of accurately locating and mapping physical features (topography) for both design and construction purposes. The incorporation of surveying and mapping an underground utility with approximate (or precise) horizontal locations – within the overall topographic survey/mapping process – is a logical extension. The compilation of all topographic, boundary, and SUE data into an overall Graphic Information System (GIS) digital plan base is the ultimate logical extension of Taylor, Wiseman & Taylor's SUE and survey capabilities.

If you require SUE services on a project, please contact Anthony DiMauro, PLS, SUE Division Manager (856) 437-8456, [DiMauro@taylorwiseman.com](mailto:DiMauro@taylorwiseman.com), or Thomas Costello, PE, Transportation Division Manager (856) 437-8490, [Costello@taylorwiseman.com](mailto:Costello@taylorwiseman.com).

## September 14, 2016 Meeting Highlight—*Transportation & Infrastructure in New Jersey*

### **ASHE NCNJ and ASHE SNJ Joint Dinner Meeting**

**Presentation by:  
J. Lawrence Williams, P.E. - NJTA Deputy Chief Engineer, Construction**



THANK YOU TO OUR MEETING SPONSORS,

ADVANTAGE ENGINEERING ASSOCIATES, ARORA AND ASSOCIATES, P.C., AND RGA, INC.



## October 17, 2016 Meeting Highlight— *Broadway Realignment Project*

**Presentation by:**  
**Kevin Becica, County Engineer, Camden County Dpt. of Public Works**  
**Mason DeFrank, Project Engineer, T&M Associates**  
**Anthony Guerrieri, Construction Manager, AECOM**  
**Mark Stettler, Project Manager, T&M Associates**



THANK YOU TO OUR MEETING SPONSORS, T&M ASSOCIATES, AECOM, AND RGA, INC.

ALSO A SPECIAL THANK YOU TO T&M, AECOM AND CAMDEN COUNTY FOR HOSTING THIS FIELD TRIP!

## November 9, 2016 Meeting Highlight—*Technical Safety Discussion*

### Joint Meeting with MASITE and ASCE SJ

Presentation by:

Dave Petrucci, FHWA, Office of Safety  
George Fallat, PE, Mercer County Traffic Engineer  
Bernie Tetreault, PE, Taylor Wiseman & Taylor



THANK YOU TO OUR MEETING SPONSORS,

SAFE TRAFFIC OPERATIONS PROFESSIONALS, IN.C AND KMA CONSULTING ENGINEERS, INC.



## *December 14, 2016—NJDOT Program Initiatives for FY 2017*

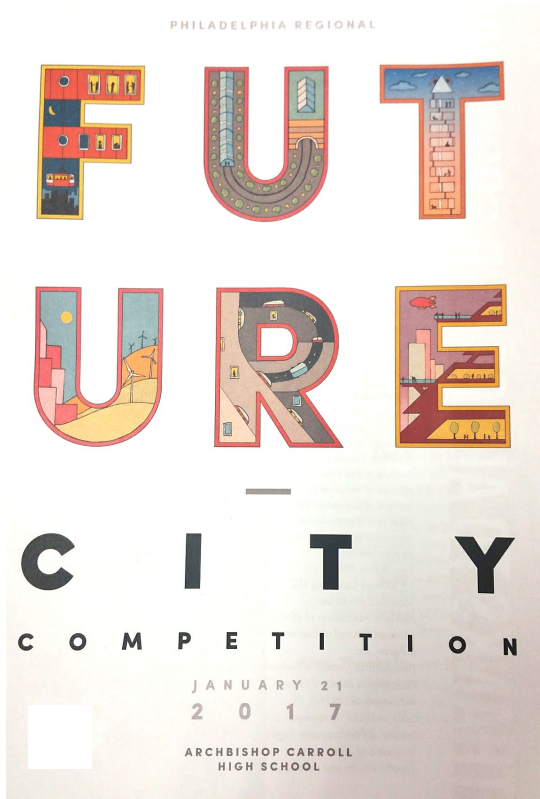
**Presentation by:  
Dana Hecht, NJDOT Director of Project Management,**



THANK YOU TO OUR MEETING SPONSORS,  
FRENCH & PARELLO ASSOCIATES, IH ENGINEERS, P.C., HAKS







ASHE SNJ IS PROUD TO HAVE PARTICIPATED AS A SPECIAL AWARD SPONSOR AT THIS YEAR'S FUTURE CITY PHILADELPHIA COMPETITION HELD ON JANUARY 21, 2017.

A SPECIAL THANK YOU TO OUR PRESIDENT, CARRIE STREAHLE, FOR WAKING UP AT 7 AM TO JUDGE THIS COMPETITION!

CONGRATULATIONS TO THE AMERICAN SOCIETY OF HIGHWAY ENGINEERS OF SOUTHERN NEW JERSEY AWARD WINNING TEAM  
**COLLINGSWOOD MIDDLE SCHOOL**  
FOR THEIR CITY NAMED CINARA





*January 26, 2017—ASHE SNJ & DelVal Social  
& Winter Scholarship Fundraiser*



THANK YOU TO OUR MEETING SPONSORS,  
LARSON DESIGN GROUP, PROMATECH INC., AND PENNONI!

*ASHE SNJ is now accepting...*

**2017**

***SCHOLARSHIP APPLICATIONS!***

**Please submit your application and references by:**

**March 10, 2017**

**ASHE Scholarship Committee Chairperson Carrie Strehle  
c/o Promatech, Inc.  
506 Route 130N, Suite 3  
Cinnaminson, NJ 08077  
Phone: (609) 636-6618**

**FOR MORE INFORMATION VISIT:**

**<https://ashesnj.wildapricot.org/Scholarship>**

## SPONSORSHIPS ARE NOW AVAILABLE

### **PLATINUM LEVEL - \$1,000**

- Web-posting of Classified ads on [www.southernnj.ashe.pro](http://www.southernnj.ashe.pro)
- Company Logo & Featured Sponsor on main page of [www.southernnj.ashe.pro](http://www.southernnj.ashe.pro) and on Sponsorships page
- Opportunity to display a project photograph with recognition of sponsor firm on [www.southernnj.ashe.pro](http://www.southernnj.ashe.pro)
- Full page feature article on your firm (topic of your choice) in the ASHE-SNJ Newsletter (article provided by the sponsor firm)
- Special Recognition at ASHE SNJ Regular and Special Events on presentation screen
- Two Annual ASHE SNJ Memberships (Include member names in the comment section below)

### **GOLD LEVEL - \$750**

- Web-posting of Classified ads on [www.southernnj.ashe.pro](http://www.southernnj.ashe.pro)
- Company Logo and link on [www.southernnj.ashe.pro](http://www.southernnj.ashe.pro) Sponsorships page
- Opportunity to display a project photograph with recognition of sponsor firm on [www.southernnj.ashe.pro](http://www.southernnj.ashe.pro)
- Recognition display at each ASHE SNJ Event
- One Annual ASHE SNJ Membership (Include member name in the comment section below)

### **SILVER LEVEL - \$500**

- Web-posting of Classified ads on [www.southernnj.ashe.pro](http://www.southernnj.ashe.pro)
- Company name and link on [www.southernnj.ashe.pro](http://www.southernnj.ashe.pro) Sponsorships page
- Opportunity to display a project photograph with recognition of sponsor firm on [www.southernnj.ashe.pro](http://www.southernnj.ashe.pro)
- Recognition display at each ASHE SNJ Event

### **MONTHLY DINNER SPONSORSHIP**

#### **DINNER SPONSORSHIP - \$250**

- 5 minute presentation to all attendees to promote your firm or product
- Recognition display on slideshow and each dinner table
- Opportunity to display and distribute materials/pamphlets about your firm or product before, during, and after the meeting
- A seat at the head table with guest speakers for the evening (includes cost of one registration and dinner)



# **BECOME ACTIVE IN YOUR ASHE SOUTH JERSEY CHAPTER!**

**CONTACT YOUR BOARD MEMBERS  
*TODAY*  
TO SEE HOW YOU CAN GET *INVOLVED!***

## **Open Positions**

Auditing

Technical

Student Chapter Mentor

# UPCOMING EVENTS SAVE THE DATE!!

*Wednesday, February 15*  
**Environmental Monitoring and  
Archaeological Monitoring During Construction**  
The Hamilton Manor,  
30 NJ-156,  
Hamilton Township, NJ 08620

**Save the following meeting dates for great  
continuing education, networking, social events, field trips,  
award nights, scholarship fundraisers and more!!!!**

Wednesday, March 15, 2016

Wednesday, April 12, 2016

Wednesday, May 17, 2016

Wednesday, June 14, 2016



Thank you to our sponsors for the 2016-2017 year!

**PLATINUM LEVEL**



**SILVER LEVEL**

**HDR**

**JMT**

**NJ Asphalt Pavement Association**

**Promatech**

**Remington & Vernick Engineers**

**RGA**

**Urban Engineers**