

August 2023



January- July 2023 Recap

Message from the President

Heather Sabetta, ASHE SNJ President

As I start my 2nd term as President of ASHE SNJ, I want to look backward at our achievements this past year and forward to what 2023-2024 will bring for our membership. I want to thank our Board and Committee members for their efforts in making sure we have programs that are interesting as well as beneficial to our members. As always, I encourage our members to reach out with suggestions for future meeting topics or venues.

This past year we have supported a few organizations. ASHE SNJ supported Future Cities and provided a pizza party for the students to present to us over zoom. Congratulations to Schuylkill Valley Middle School for their awesome "Adroit City". ASHE SNJ also supported the DeVal Engineers Week.

Since December, we have hosted five technical events and a social. Our Annual Project of the Year Awards banquet with ASHE NC-NJ was a success. Congratulations to WSP and Greenman-Pedersen, Inc. for their award winning project submissions!

The Annual Scholarship Golf Outing was held on July 10th at Little Mill Country Club. We raised almost \$12K for our Scholarship Fund – thank you everyone!!! This is the most participation we have had with over 100 golfers. At this event, we swore in our board for this upcoming year. We also passed out scholarships to 3 of the 6 recipients. We gave out \$20k this year to well deserving students.

We would like to thank George Zimmer and Alex Kluka from WSP and Stephen Forney from Michael Baker International for their roles in the past few years. Mike Danko from Mid-Atlantic Engineering Partners has taken over the Treasurer Position. Godfrey Joyner from KMA has moved to Co-Chair for the Education Committee. Joe Chichilitti from Michael Baker International has moved to our Golf Outing Coordinator. We would like to welcome Chris Siwczak from Colliers Engineering and Design who will be heading out PDH Coordinator and Membership Committee Chair. We would also like to welcome Matthew Galbraith from Hill International who is our venue Coordinator.

Currently along with North Central New Jersey Chapter, we have three active student chapters: Rowan, Mercer County Community College, and Rutgers. These student chapters meet regularly and are greatly appreciative of any guest speakers we can provide at their meetings. This is also a great way for you to network with potential candidates for entry-level positions and internships. If you have a topic you would like to present to the students at one of these meetings, please let Godfrey Joyner at gjoyner@kmapc.net know so we can add you to the schedule!

We are in the midst of planning our coming year so please reach out with ideas and suggestions. Check out our <https://ashesnj.wildapricot.org/events> for upcoming events and don't forget to follow us on LinkedIn. If you have an interesting project or an idea for a field trip, please reach out to me and we can get you on the list for next year. In addition, we are always looking for volunteers to help! Look forward to seeing you all at the upcoming events!

Newsletter Highlights

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2023 ASHE SNJ SCHOLARSHIP GOLF OUTING

The annual ASHE SNJ golf outing helps to fund the scholarships that are given out each year to students of southern New Jersey. Thank you to all of the participants and sponsors who made last year's outing the success that it was! Your support and generous donations have allowed ASHE SNJ to give out **\$262,500** in scholarships to date. This year, we will be awarding multiple scholarships exceeding a total amount of \$20,000.



Replacement Cotton Mill Bridge, Atlantic County Bridge No. 01-HM-L54 on Mill Street (CR 559) over Great Egg Harbor River, Hamilton Township, Atlantic County

Speaker:

Yan Gao, PE, Section Head, Structures, Johnson Mirmiran & Thompson, Inc.

The project involves the replacement of Atlantic County Bridge No. 01-HM-L54 on Mill Street (CR 559) over Great Egg Harbor River, Hamilton Township, Atlantic County. Atlantic County Bridge No. 01-HM-L54 was constructed in 1940 and is a three (3) span, simply supported, concrete encased steel beam and concrete deck bridge. The superstructure is supported by two (2) concrete abutments and two (2) concrete piers on timber piles. The total bridge span is 100.5 ft. The replacement is necessary due to the poor physical condition of the superstructure. The substructure exhibited full height, vertical through cracks up to 1/2" wide in all structural elements. The northeast wingwall exhibits 3" lateral movement. The underwater inspection revealed severe scaling with exposed aggregate, numerous spalls, cracking in the concrete, as well as undermining of the footings. The proposed structure is a two (2) span concrete pre-stressed girder bridge. The superstructure consists Next Beams that was designed to carry dead load and live continuity over the pier to eliminate the deck joint. Semi-integral abutments will be utilized and comprised of steel H pile concrete abutments and a new reinforced concrete pier on steel piles. Overhead utilities will be permanently relocated to the west of the bridge. Water, gas and sewer main will be temporarily relocated west of the proposed bridge on a temporary utility



PROJECT OF THE YEAR AWARDS 2023 Over \$10 Million



PROJECT OF THE YEAR AWARDS 2023 Under \$10 Million



Spring Social at River Horse Brewery



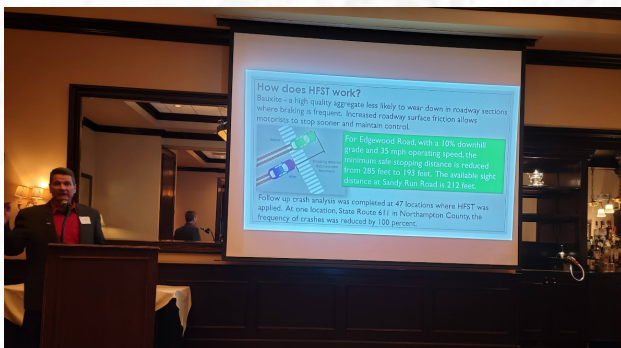
INNOVATIVE SAFETY IMPROVEMENT

Speaker:

Joseph M. Fiocco, P.E., PTOE, SAFE Highway Engineering, LLC

A combination of changes (additional rail line, quiet zone project, and reprofiling of Edgewood Road) at the railroad crossing on Edgewood Road in Lower Makefield Township, Bucks County PA significantly reduced the available intersection sight distance at Sandy Run Road. The Township proactively decided to close the intersection in the interest of public safety before any collisions had occurred. SAFE Highway Engineering (SAFE) was requested to consider options that would provide some level of access to/from Sandy Run Road given the intersection was closed for over three years and the detour route exceeded 2 miles for some residents.

SAFE developed a creative solution involving the physical restriction of left turn movements, the construction of two mini roundabouts to facilitate those left turn movements, and the installation of a High Friction Surface Treatment (HFST) to minimize the potential for rear end collisions in the vicinity of the intersection. This presentation will elaborate on the specific safety concerns at this location, the alternatives that were considered, engineering studies completed by SAFE, and the post construction data collection results.



Route 206 Bypass, Contract B

Speakers:

George Worth - NJDOT Project Manager

David Hicks, PE, Senior Project Manager - Dewberry

David Hill, PE, Senior Associate, Senior Project Engineer - Dewberry

First conceived in the 1970s, the new 3.8-mile limited access bypass has improved safety, capacity and reliability while also setting the stage for transformation of Hillsborough's business district. Finished under two contracts, the project included two single-span crossings of an active railroad—a 230-ft-long bridge with a 61-degree skew and a 176-ft-long bridge with a 16-degree skew.

Early design-phase consultation with steel fabricators prevented disruption during construction. Bridges span the railroad right-of-way, allowing for future tracks to accommodate expanded freight and passenger service. Because the bypass alignment crosses environmentally valuable land, large farmland tracts were preserved to meet community initiatives. In addition to developing a reforestation plan to offset removal of 47 acres of trees, soil sampling of properties in the construction corridor assessed potential residual contamination.

The project's utility relocations included a major underground fiber-optic trunk line, a 30-in. water distribution main, four transcontinental gas pipelines and a sanitary sewer pipe system as well as advance installation of new 69-kV electric transmission lines. Routing traffic around Hillsborough has significantly eased central business district congestion. The bypass also provides convenient access to a planned passenger rail station within walking distance of a proposed town center. The \$42.2-million project was completed at budget and ahead of schedule in 41 months.



ASHE SNJ Ethics

Speaker:

Carol Martsof – Vice President and Chief Learning Officer, Urban Engineers, Inc.

For this year's ethics presentation, we are pleased to present a discussion on The Ethical Spectrum. The presentation will cover the history of ethics, key ethical guidelines, and the code of ethics for engineers. We will learn to identify ways to handle ethical dilemmas, learn what happens when a violation occurs, and discuss how to follow the rules of ethics and how to protect ourselves.



Save the Date!!!

September 26, 2023

**Update on NJDOT & NJTA Capital Programs
Forsgate Country Club**

October 18, 2023

**Reopening the I-95 Bridge
Maggiano's**

January 2024

**Ethics
Maggiano's**

February 13, 2024

**Mercer County Bridge 415.2 - FPA
Stone Terrace**

March 20th, 2024

**Atlantic City Expressway 3rd lane widening and all
electronic tolls - SJTA
Maggiano's**

April 2024

**Project of the Year
Forsgate Country Club**

Thank you to our current sponsors!

