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**WORKING TOWARD THE PRIZE**

## Cool Pavement Study at Manhattan College



The PCA Northeast has partnered with Manhattan College on a study to evaluate the impact of Cool Pavements on Urban Heat Island (UHI). PCA Northeast Executive Director, Pat Reardon and Ken Justice, PE worked with Manhattan College Chair of the Civil and Environmental Engineering Department, Dr. Hourani on the project. Separate sections of plain and pervious concrete were placed next to an asphalt section in the parking lot of the college maintenance facility. The project was completed in September of 2014.

The test sections provide the opportunity to evaluate the relative temperatures and reflectivity of the two types of concrete and asphalt. Surface temperatures will be monitored by the college and PCA Northeast. We are also planning an event at the college to showcase the project and the positive impact of Cool Pavements on the UHI Effect.

## Pervious Concrete in Robbinsville NJ



A Pervious Concrete parking lot and sidewalk project was completed at the new Sharon Elementary School in Robbinsville, NJ. The project was broken into three phases - the largest was the main parking lot at the school.

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### Upcoming Events

**April 30** FDR with Cement Seminar, Batavia, NY

**May 12** FDR with Cement Seminar, SUNY @ Albany, NY

Contact **Heather Steffek**  
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Construction was completed in August and consumed approximately 200 tons cement.

The project, which eliminates storm water runoff, was the first pervious concrete design for B & G Engineering. Besrick Plummer of B & G learned about pervious at a seminar in 2011 by PCA-NE, Promotion Director for NJ & DE, Ken Justice, PE. The school is pleased with the parking lot, especially the reflective properties which improve safety and security during night time events.

The other two pervious concrete project phases at the school included sidewalks and a small parking area. Novacrete of South Amboy, NJ, an NRMCA certified Installer, was the contractor. Concrete was supplied by L&L Redi Mix of Southampton, NJ.

## PCA Professors' Workshop



PCA held its annual Professors' Workshop on July 21-25, 2014 in Skokie, IL. Two professors were sponsored by PCA Northeast. They were George Tsiatis from the University of Rhode Island and LTC Curt Decker from the US Military Academy at West Point.

The workshop covered topics such as: Concrete Materials, Engineering and Economics of Concrete Buildings, Design, Construction, and Performance of Concrete Pavements. It also covered concrete bridge and concrete masonry design.

Professor Tsiatis offered his deepest gratitude for the opportunity to share with other professors from around the country. He told PCA Northeast College and University Program Manager, Kim Franklin, the updated materials and knowledge he gained will be a valuable asset to his students in the Concrete Design and Concrete Materials classes at URI.

LTC Curt Decker also appreciated the opportunity to meet with other professors and industry professionals. He said the civil engineering cadets at West Point will learn much from the updated information and materials provided during the workshop. He said that both he and his civil engineering students will benefit a great deal from what he learned at the workshop.

This year's workshop will be held on July 20-24, 2015 at the Skokie Office and the sponsored professors have already

been selected.

## FDR with Cement Break-Thru in NJ



The Full Depth Reclamation (FDR) with Cement project, 'Route 72 Shoulders' completed in June of 2014, was the first ever awarded by the New Jersey DOT. It was designed with 5.5% cement and consumed 240 tons. The contractor was Asphalt Paving Systems.

New Jersey DOT plans to continue using the cost saving process in 2015 with shoulders on Route 55. The project will cover over 4 miles and is estimated to use 1000 tons of cement.

These projects are the result of the work of PCA Northeast, Promotion Director for NJ & DE, Ken Justice, PE. Ken worked closely with the state agency on the design and specifications.

Many towns in the state have been using FDR with Cement for their roads. Howell, NJ completed Phase 3 of a multiyear program last fall. The same reclamation contractor, CJ Miller, performed the work for all 3 phases. The project used an average of 5% cement with an 8" reclaim depth consuming 1500 tons of cement.

Solid promotion and perseverance is the key to the growing awareness of FDR with Cement in New Jersey. In 2014, 13 projects were completed. This is a 52% increase over the previous year, with several town engineers using FDR with Cement multiple times. The market will continue to grow as more towns and their consulting engineers become aware of the process.

**Friendship! Mysterious cement of the soul, Sweet'ner of life, and solder of society.  
~ Robert Blair**

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