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American Society of Civil Engineers North Jersey Branch

The Construction Technical Group Proudly Presents

**“Turning Trash into Treasure”
Engineering the Closure and Redevelopment of the Carteret, NJ
Municipal Solid Waste Landfill**

Christopher F. Zwingle, P.E.
SESI Consulting Engineers - Pine Brook, New Jersey



This Brownfield project involved the closure and beneficial redevelopment of 70 acres of abandoned landfills in Carteret, New Jersey. Easily accessible from the NJ Turnpike, these landfills were transformed from an environmental liability into a thriving 1.3 million square foot international trade and logistics center.

Speaker: **Christopher Zwingle, PE** holds a BA in Geology and a BS and MS in Civil Engineering (Geotechnical) from New Jersey Institute of Technology. He has thirty years of experience in the re-development of Brownfield and otherwise problematic sites. He has also been an in-house expert to Exxon affiliates world-wide in the remediation of contaminated properties. He is currently a Principal of SESI Consulting Engineers in Pine Brook, NJ.

Date/Time: **Thursday, February 17, 2011.** Registration 5:30 pm, dinner and presentation to follow.

Location: La Quinta Inn, 38 Two Bridges Road (off Route 46W), Fairfield, NJ 07004

Cost: \$45 for ASCE member, \$50 for nonmembers, \$45 for Gov't Employees and \$20 for Full-Time Students with ID.

Register: **RSVP by February 14, 2010 – Contact Kenneth Wigg at kwigg@mtac.com or register on-line at www.ascenorthjerseybranch.org**

PDH Credit: One (1) PDH pending approval for NY PE; One (1) CPC pending approval for NJ PE

PRESIDENT'S ADDRESS



I am trying my best to send warm Greetings to our North Jersey Branch members; however, this frigid weather is not helping me at all. After back-to-back storms over the past month, we are already tired of shoveling/clearing snow (I am sure some of you skiers are happy to see the amount of snow). Anyway, it is becoming a big problem for our townships to pay for its removal. A few days ago, there was a news that the Bergen County's Public Works Department is turning to an interesting cheaper alternative for melting the snow quickly and efficiently — a briny mixture of salt and water that resembles pickle juice. It was reported that the green-colored brine costs just 7 cents per gallon, compared to \$63 per ton of salt. It is in fact a warm solution to a frigid situation.

ASCE NJB sponsored a two-day event on "Trenchless Technology, SSES and Buried Asset Management" which was scheduled for Wednesday and Thursday, December 15 and 16, 2010 at the Sheraton Newark Airport Hotel in Newark, NJ. A number of speakers from academic, consulting and construction sectors covered topics ranging from techniques and methods to case studies with cost saving alternatives, through recent product advancements in the trenchless technology industry. In addition, exhibitors were presenting new technology related to trenchless technology. Our Guest Speaker was Eric Macfarlane, Deputy Commissioner, Infrastructure Division of New York City Department of Design and Construction. Approximately 150 people attended the two-day event. The event was organized by Mid Atlantic Society for Trenchless Technology, and Leonard Ingram is the Executive Director.

On Tuesday, January 18, 2011, we had our first joint dinner meeting with ASHE North-Central New Jersey section at Snuffy's Restaurant in Scotch Plains, NJ. Thomas Fisher and Mike Norris of Parsons Brinckerhoff and Lamis Malak of NJTA discussed the widening of the Garden State Parkway's Mullica River Bridge project. Approximately 120 people attended the joint dinner meeting. It was a huge turnout considering the fact that the meeting was rescheduled from original date of January 11 due to inclement weather. I would like to thank Kerri Tyerman and Greg Landry of ASCE NJB and Larry Diffley and Hong Sun of ASHE NC-NJ for their efforts in coordinating and scheduling/re-scheduling this great event. Thanks to our attendees – you guys rock our event.

We had a great evening with Design and Construction Challenges for the Route 1 & 9T (25) St. Paul's Viaduct Replacement project presentation which was coordinated by the Structural Technical Group (STG). The meeting was held on Thursday, January 27, 2011 at LaQuinta Inn & Suites. Around 75 attendees participated to listen to Steve Hochman of NJDOT and Glen Schetelich of Hardesty & Hanover speak about the NJDOT's \$270 million project to replace the deteriorated Route 1 & 9T viaduct over St. Paul's Avenue. Satish Patel, PE, who is the chair of Structural Technical Group, organized the event. Congratulations to Satish for a job well done. Also, I would like to thank all the attendees for your active participation.

Please keep in mind that our Construction Technology Group (CTG) will have a dinner meeting on Thursday, February 17, 2011 at LaQuinta Inn & Suites in Fairfield, NJ. This will be our 8th meeting for 2010-11 season. The presentation will be on Turning Trash into Treasure – Engineering the Closure and Redevelopment of the Carteret, NJ Municipal Solid Waste Landfill project. Please mark your calendar and visit our website www.ascenorthjerseybranch.org for details and registration.

On a warm note - the application packages for scholarships have been submitted to the high schools, community colleges and universities of north Jersey. In addition, these packages are also available at our website under "The Student Center". Please visit our website and encourage students to apply for these scholarships.

Also, ASCE-NJ Section will be celebrating the 60th Anniversary of Engineers Week on President's Day, Monday, February 21, 2011 at the Liberty Science Center in Jersey City, NJ. Please participate and bring your kids to make this event a big success.

Lastly, if you are interested in joining our Board, please let me know or send me an e-mail. We always need help with our various programs.

Best wishes,

M. Golam Kabir, Ph.D., P.E.
(973) 428-0934 Ext. 137

DESIGN AND CONSTRUCTION OF STEEL SHEET PILING STRUCTURES

Richard Hartman, Ph.D., P.E.

This one-day seminar covered topics ranging from design concepts, to practical field problems, through recent product advancements in the design and manufacturing of steel sheet piling. It was presented by Richard Hartman, Ph.D., P.E., a leading international expert in the design and construction of steel sheet pile structures. Dr. Hartman is licensed as a professional engineer in 38 states and has over 40 years of experience in the subject. For the past 15 years he has been involved in the research and design of new sheet pile sections and, based on that research, holds four patents for sheet piling sections.

Richard provided in-depth discussions and case studies about design parameters, layout, and construction considerations for cellular cofferdams, design and construction considerations for bulkheads, open cell designs and combination walls; design and construction considerations for trenches. He discussed properties of steel sheet piling, changes in steel pile manufacturing, concerns regarding performance, transverse loads, stresses in sheet piling, and redesign of sheet piling sections. He also reviewed design software for steel sheet piling structures.

The full-day seminar was coordinated by Richard Morales, PE of L.B. Foster, and about 30 people attended the full-day seminar. The meeting was held at the training facility of Weeks Marine, Inc. corporate office located in Cranford, NJ.



WIDENING OF THE GARDEN STATE PARKWAY'S MULLICA RIVER BRIDGE

On Tuesday, January 18, 2011, we had our first joint dinner meeting with ASHE North-Central New Jersey section at Snuffy's Restaurant in Scotch Plains, NJ. Tom Fisher and Mike Norris of Parsons Brinckerhoff and Lamis Malak of NJTA discussed the Mullica River Bridge's connection to the GSP 30-80 Widening Program and provided a Design Perspective, as well as a Construction Perspective. Key elements of the project during design were highlighted by Tom Fisher, Design Project Manager - Parson Brinckerhoff. He also provided explanations regarding the reasoning behind the selected design details that were included in the Contract Documents. These included:

- Environmental Constraints-details provided as to how these impacted design decisions
- Span Layout
- Pier Foundation type
- Spliced Girders and HPC Deck
- Substitution of Controlled Modulus Columns for Stone Columns
- Approach Roadway Drainage and Construction

After the discussion of each Design element, Mike Norris, Field Project Engineer - Parson Brinckerhoff, explained how these were addressed in the field during construction. This was accomplished via numerous construction photos. Mike Norris then gave a status report on the bridge construction explaining that NB traffic was to be shifted to the new bridge on January 20, 2011 and SB traffic would be shifted by February 28, 2011. Final paving would occur in early spring 2011. The project was also shown to be completed within the original bid price.

Approximately 120 people attended the joint dinner meeting. It was a huge turnout considering the fact that the meeting was rescheduled from original date of January 11 due to inclement weather. Special thanks to Kerri Tyerman and Greg Landry of ASCE NJB and Larry Diffley and Hong Sun of ASHE NC-NJ for their efforts in coordinating and scheduling/rescheduling this great event. Thanks to our attendees – you guys rock our event.



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NORTH JERSEY BRANCH TECHNICAL GROUPS

Join one of these groups and get involved with others in your field of interest. For more information, contact Kerri Tyerman, P.E. at Ktyerman@dewberry.com or any of the individuals listed below:

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ENGINEERS MAKE A WORLD OF DIFFERENCE



Come, Celebrate 60 years of Volunteerism with Us!

WHAT: Come join the New Jersey Section of ASCE and other engineering organizations including the New Jersey Society of Professional Engineers and the National Society of Black Engineers-Alumni Extension for a fun-filled day of hands-on activities at Liberty Science Center in Jersey City, NJ. Meet engineers and scientists who can guide you through some interesting topics using demonstrations that are suitable for all ages.

WHEN: **Monday, February 21, 2010 (President's Day) from 9:00 AM – 4:00 PM**

WHERE: Liberty Science Center - Liberty State Park - Jersey City, NJ - 07305 - 201.200.1000
For admission and directions, visit their website at www.lsc.org

WHY: To celebrate the beauty of the sciences and engineering in a positive learning environment. Help increase the understanding of and interest in engineering and technology careers among young students and by promoting pre-college literacy in math and science. Engineers Week also raises public understanding and appreciation of engineers' contributions to society.

ALERT: Volunteers Needed!!

Volunteers can sign up for half days (8:00AM – 12:30PM or 12:30PM – 4:30PM) or for the whole day. Admission is Free for volunteers. To sign up to schedule to volunteer, please contact: Richard Pascual by email at pascual@stumphausman.com



**ENGINEERS
WEEK® 2011**
FEBRUARY 20-26



North Jersey YMG & Lehigh Valley YMF Ski & Snowboard Trip



Enjoy a day of skiing or snowboarding with your fellow ASCE YMG/YMF members!
All tickets include a FREE LUNCH hosted by the North Jersey YMG and Lehigh Valley YMF.

When: Saturday, February, 26, 2011. The mountain is open 8am – 10pm.

Where: Shawnee Mountain, East Stroudsburg, PA

Cost:	ASCE Members	Non-Members
Lift Ticket ONLY	\$29	\$34
Lift Ticket + Ski/Snowboard Rental	\$46	\$56
"Best Value Package" (All Mountain Lift Ticket, Rental & 1 Group Lesson)	\$49	\$59

Name: _____ E-Mail Address: _____

ASCE Branch: North Jersey ___ Lehigh Valley ___

Number of Tickets:	ASCE Members		Non-Members		Total Enclosed \$ _____
	Ski	Snowboard	Ski	Snowboard	
Lift Ticket ONLY	___	___	___	___	
Lift Ticket + Ski/Snowboard Rental	___	___	___	___	
"Best Value Package" (All Mountain Lift Ticket, Rental & 1 Group Lesson)	___	___	___	___	

Are you interested in carpooling? Yes, I can drive ___ Yes, I will need a ride ___ No ___

To purchase your tickets, please send the completed form and payment by Friday, February 11th to:

Laura Wolfe (LWOLFE@HNTB.COM)
HNTB Corporation
Wayne Plaza I, Suite 400
145 Route 46 West

Make all checks payable to ASCE North Jersey Branch.

ASCE Bowling Tournament

Hosted by the North Jersey Branch Younger Member Group

Entry Fee Per Team of 3 is \$100*

Teams Guaranteed to Play 2 Games

Trophies Presented to Top 2 Teams

Shoe Rental, Food & Non-Alcoholic Beverages Provided

All Proceeds Fund YMG Activities & Student Scholarships!

All are Welcome to Participate!

Saturday, April 30th at 12:00 PM

AMF Wallington Lanes, Wallington, NJ



For More Information:

Alicia M. Mahon
Center for Maritime Systems
711 Hudson Street
Hoboken, NJ 07030
P: (732) 814-4785
E: amahon@stevens.edu



Please make checks payable to ASCE North Jersey Branch and submit Registration Form and Fee by April 15, 2011.

* Non-profit groups and Educational Institutions should contact for discounted rates.

Bowling Tournament Registration Form

Registration Deadline: Friday, April 15, 2011

Company Name: _____

Address: _____

Team Captain: _____

Team Name: _____

Email: _____

Phone Number: _____

Team Members: _____

(If unknown leave
Blank)

Entry Fee \$100

Tournament Sponsorship (Suggested) \$

Contribution offsets the cost of the facility, food, & beverages.

Includes Company Name & Logo on Sponsor Signs (\$50 Min.)

Scholarship Donations (Optional) \$

Thank you for your support! _____

Total Fee Enclosed \$

Payable to ASCE North Jersey Branch

Send Registration Form and Fee to:

Alicia Mahon – amahon@stevens.edu

Center for Maritime Systems, 711 Hudson Street, Hoboken, NJ 07030

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