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JOINT ASCE / NSPE DINNER CONSTRUCTION OF THE MANHATTAN PORTION OF WATER TUNNEL #3

This \$700,000,000 project is the Manhattan portion of a much larger water supply system which will ultimately serve the City of New York and the surrounding Boroughs providing water to its residents, workers and visitors. The City is currently being served its 1.2 billion gallons of water per day through 100year old tunnels which need to be shut down for inspection and possibly some rehabilitation.

The presentation will discuss the various methods of constructing 3 – 3 mile tunnels and 10 – 500 foot deep shafts and some of the problems associated with this work.



SPEAKERS: Alan Slaughter, P.E., P.P., *Assistant Resident Engineer*
Maidie Erickson, P.E., *Shafts Engineer*

DATE/TIME: Tuesday, February 24, 2009
Registration at 5:30 PM and dinner at 6:30 with presentation to follow.

LOCATION: LaQuinta, 38 Two Bridges Road, Fairfield, NJ 07004, (973) 575-1742

DIRECTIONS: **Lincoln Tunnel** to Route 3 West to Route 46 west. Approx. 5 miles - hotel entrance on right.

George Washington Bridge to Route 80 West to Exit 52. Right hand turn - under bridge - property located on the left hand side of Two Bridges Road.

Directions from the Garden State Parkway: Exit 153B (Route 3 and Route 46) down ramp to Route 3 West to Route 46 West. Approx. 5 miles past the Willowbrook Mall (Hotel entrance on the right)

Directions from the New Jersey Turnpike: Exit 16W (Route 3 West). Follow Route 3 West to Route 46 West. Approx. 5 miles past the Willowbrook Mall (Hotel entrance on the right)

COST: Before February 18, ASCE Members \$ 45, Non-Members \$ 50, Government Employees \$ 45 and Full-Time Students with ID \$20. After February 18, \$50, \$55, \$50 and \$25 respectively. Checks should be made payable to ASCE North Jersey Branch
NO SHOWS WILL BE BILLED

REGISTER: RSVP by 02/18/09
Call or email Teresa Peterson at (908) 755-0040
tpeterson@gfnet.com or register online at
<http://branches.asce.org/northjersey/calendar/index.html>

PDH: 2.0 PDH Pending Approval

Please make checks payable to ASCE North Jersey Branch

PRESIDENT'S ADDRESS

By the time you read this, ASCE will have released their 2009 National Report Card grades. The full release of the report is scheduled for late March. This pre-release is an effort to educate the public and our elected leaders about the current state of our national infrastructure. Congress is on the verge of passing an \$825 billion stimulus package focused around infrastructure spending. It is gratifying to see infrastructure at the forefront of our national conscience. It is a testament to the work of ASCE, NSPE, AWWA, WEF, ASHE, SME, and the many societies and individuals who have volunteered their time to raise our collective awareness. Let's hope this is only the beginning of an on-going national commitment to improving our assets.

The imminent stimulus package and the timely release of the Report Card prompted a debate amongst several of my colleagues. While we have succeeded in elevating the discussion surrounding our infrastructure, what responsibility do we have to get involved in the political aspects of the discussion? Should we as engineers make the difficult decisions to prioritize projects and direct funding, or should we leave those decisions to the elected leadership? Who should decide if clean drinking water is more important than safe bridges? How much of the \$825 billion should go to wastewater or energy or schools?

ASCE's policy has been to collect the necessary information and present it in a way that non-engineers can understand. We can assess the condition of our assets, recommend necessary repairs, and estimate the costs to make those repairs. We can even go so far as to suggest which areas might be of more concern than others. In our 2007 NJ Report Card, we identified roads, bridges, wastewater and aviation as the primary areas of concern in New Jersey. But who can say that a particular High Hazard Dam failure might not pose a greater concern than a particular bridge collapse?

Who should determine that a rural two lane bridge providing the only means of ingress/egress into a particular small community should receive priority funding over a 4 lane superstructure where the probability of failure is low but a failure would result in loss of life? Once you begin to consider the relative societal, economic, and environmental impacts of particular projects, where does the engineering perspective fit in? Or are the quantitative measurements the only ones which should be considered? Should ASCE and others, being non-partisan groups, take a larger role in the distribution of the funds? I would be curious to know how our members feel about this. Please drop me a line if you find the time.

On a separate note, February is National Engineer's Month! Celebrate engineering and all the ways we, as engineers, improve society. The Branch will again participate in EWeek activities at Liberty Science Center. We're always looking for new exhibits to entertain and educate the kids. If your company has developed a tabletop display that you would consider donating to EWeek for the day, please contact Rich Pascual. Likewise, EWeek would not be possible with volunteers and sponsors. We currently have a shortage of both! If you or your company could assist with either, the EWeek organizers would love to hear from you.

Until Next Month,




SAVE THE DATE

March 26th, 2009

The Geotechnical Group Full Day Seminar

Seismic Design Short Course featuring

Dr. James R. Martin, II, Ph.D. from Virginia Tech

Receive Six (6) PDH's

At Pantagis Renaissance (Snuffy's)
Scotch Plains, NJ

MORE INFORMATION TO FOLLOW

Annual NJ "Future City" Competition Winners

Winners of this year's NJ Future City competition went to students from Iselin middle school who designed a city called Shenseikatsu and will head to Washington, D.C. to compete in the 17th annual Future City National Finals (www.futurecity.org), scheduled for February 17-18, 2009 at the Hyatt Regency Capitol Hill.

Besides presenting their city, students also took part in a tour of the Rutgers engineering facilities, watched ASCE's "Building Big" series, and spent time visiting an area to chat with engineering professionals. This area included booths from PSE&G, United Water, NJTPA, and CMX (to name a few).

host Bentley Systems, Incorporated, the leading company dedicated to providing comprehensive software solutions for the infrastructure that sustains our world.

"I was really impressed with the model cities and the turn out," said Scott Lubarsky, NJ Future City region coordinator. "It's a great program that allows 7th and 8th graders to learn more about the engineering and science fields. We appreciate all the support from our many volunteers and our generous sponsors."

The top five teams in NJ received STEM (Science, Technology, Engineering, and Mathematics) grants for the teacher to purchase supplies or tools for the classroom. Other prizes were tours of NJ Transit, NJ Turnpike, and NJDOT facilities.

Students from Linwood middle school designed the city called Hydracycle that won 2nd place; their mentor is Yousif Salish. The third place went to students from Clifton T. Barkalow middle school and their city named New New York; their mentor is Mansure Masood.

For more information on the New Jersey Future City competition or for volunteer opportunities please visit: <http://branches.asce.org/centraljersey/FCIndex.html> or contact Scott Lubarsky, at slubarsky@hntb.com.

For more information on the National Future City competition please visit: www.futurecity.org

Names of 1st Place Winners - Iselin Middle School, "Shinseikatsu"
Presenter 1 - Tahrima Tasmin
Presenter 2 - Ifrah Tariq
Presenter 3 - Elizabeth Stevens

Teacher - Lisa Lubarsky
Engineer Mentor - Robert Osborne



The First Place Team - Shenseikatsu

The competition is run by a volunteer steering committee, and its operation is supported solely by donations. Major contributors to this year's competition were PSE&G, ASCE NJ Section & Branches, Jacobs Engineering, HNTB Corporation, and PB Americas.

The Future City competition tasks 7th and 8th grade students to create a city - first on a computer using the SimCity 4 software and then by building a tabletop to-scale model of a city section. The entire process is overseen and guided by a teacher and an engineer mentor. In addition to the 3-D model, students had to submit an abstract describing their city and write an essay on: "Creating a Self-Sufficient System Within the Home That Conserves, Recycles and Reuses Existing Water Sources."

The final step of this all day regional competition took place on January 17, competition day, at the Rutgers University, Busch Campus Student Center (Piscataway, NJ) where each team gave a formal presentation of their work to three judges and had to defend the viability of their city.

Students work in teams of three, and begin working on their "future city" in September. During the regional competition over 150 students in teams of threes were prepared to present their future city to a number of judges and demonstrate how their city would run by describing and in some cases demonstrating how their infrastructure worked and if their city could sustain itself in the real world.

Models of future cities were built using everyday items such as soda bottles and aluminum foil to more elaborate materials like glass beads and mini-disco balls.

More than 30,000 students from 1,100 middle schools in 39 regions across the country are participating in the Future City regional competitions. The grand prize is a trip to Space Camp in Alabama, provided by National Finals

Structures Design and Construction of Parking Garages Seminar

On January 22nd the Structural Technical Group held their evening meeting presentation entitled the "Design and Construction of Parking Garages at the New Jersey Institute of Technology.



Alfred J. Klag Jr. of Carl Walker, Inc.

This seminar marked the start of the North Jersey Branch's winter/spring calendar with the presenter Alfred J. Klag Jr. of Carl Walker, Inc. Mr. Klag's presentation was both informative and entertaining. It was



Al Klag and Satish Patel (ASCE STG Chair)

an excellent example of how we use our infrastructure everyday but don't really notice the effort and detail that goes into making something function; and in some cases where it doesn't function very well. Mr. Klag's presentation was inviting for

all aspects of Civil engineering and many of the lessons presented could apply to any facet of our industry. If you were not in attendance you surely missed an outstanding presentation.

BOARD ANNOUNCEMENTS

As President, it is my duty to communicate developments within the Branch to our membership. Accordingly, I must inform you of a recent transition with our Board leadership.

Last spring the membership elected Stephan Butler to serve as President-Elect for the Branch. He would serve in this position for the 2008-2009 term, then transition to President of the Board for the 2009-2010 term. In the past Stephan has served as Vice-President, Branch Director, Government Relations Chair, and YMG advisor. Stephan has served ASCE and the North Jersey Branch faithfully for many years.

Unfortunately for Stephan and the Branch, his work with the Tree of Life program and various personal and professional commitments began to encroach upon his time spent serving the interests of the Branch. It was

with a heavy heart but an eye toward the future that Stephan resigned his position as President-Elect in January. Stephan plans to continue with the various programs he has developed over the years to improve conditions for engineers worldwide. We wish Stephan the best of luck and look forward to supporting him in his endeavors.

In accordance with our bylaws, our current Vice President, Kevin Doyle will take over as President-Elect. He will resume Stephan's responsibilities as newsletter editor and look to understand his role in the operations of the Branch. In this position, Kevin will transition directly to North Jersey Branch President at our awards dinner in May.

That left an empty chair at the position of Vice President. I believe it is important for the Branch to operate with a full complement of officers. Therefore, after identifying a few potential

qualified and interested candidates, and conducting a short interview process, I have asked Golam Kabir to serve as Vice President for the remainder of the 2008-2009 term. You may be familiar with Golam's work chairing our Geotechnical Technical Group. Through the years he has planned dinner seminars, half-day technical programs, and this year, a full day technical program on seismic design.

We will present the 2009-2010 slate of officers for vote by the membership in our March newsletter, as we do every year. If you are interested in serving a Board level position with the Branch, I encourage you to contact Kevin Doyle at your earliest convenience.

On behalf of the Branch, I'd like to welcome Kevin and Golam to their new positions. Please thank them next time you see them at a meeting.

UPCOMING YMG EVENTS

YMG**1ST ANNUAL ASCE
BOWLING TOURNAMENT FUNDRAISER**

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!

Date: Saturday, March 14, 2009

Time: 1 - 6pm

Location: AMF Wallington Lanes in Wallington, NJ

All Are Welcome to Participate!

For Information, Contact: Chrissa Roessner, PE at Louis Berger Group,
412 Mount Kemble Avenue, P.O. Box 1946, Morristown, NJ 07962

(973) 407-1555 Direct (973) 267-6468 Fax

croessner@louisberger.com

Please Make Checks Payable to ASCE North Jersey Branch And Submit Registration Form and Fee by February 27, 2009. *Non-Profit Groups & Educational Institutions Should Call for Discounted Rates

UPCOMING EVENTS

Engineer's Week at Liberty Science Center - 2/16 to 2/21

Geotech Full Day Seminar on Seismic Design - 3/26

ETG Dinner - NYC 3rd Water Tunnel at LaQuinta - 2/24

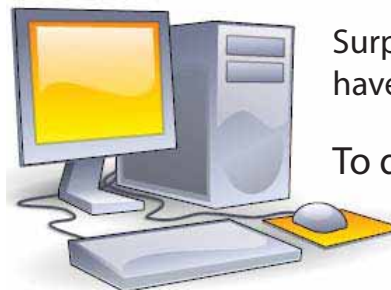
Transportation Technical group 1/2 Seminar - 4/7

YMG 1st Annual Bowling Tournament - 3/14

New Giants Stadium Tour - 4/16

Throwing Away Old Computers?

Lets put them to good use towards our childrens education.



Surprisingly there are schools that don't have enough computers for all the students.

To donate contact Scott Lubarsky

slubarsky@hntb.com

Projects In Our Region



Driscoll Bridge Widening & Rehabilitation Parkway Over Raritan River

The work includes replacement of the deck on the portion of the Garden State Parkway's Alfred E. Driscoll Bridge that formerly carried both directions of traffic; modification and rehabilitation of the superstructure; realignment of the approaches to place all northbound traffic onto the rehabilitated bridge; construction of sign structures; installation of roadway lighting; installation of ITS facilities; and additional incidental work; all to be constructed while maintaining seven lanes of traffic northbound across the bridge.

Phase 1: All Pre-Stage 1 work required to shift northbound traffic onto the former southbound lanes on Existing Bridge 127.2, and onto the Contraflow Lane,

Phase 2: All Stage 1 and Pre-Stage 2 work required for rehabilitation of the outer northbound or on Existing Bridge 127.2 and its approaches and shifting of traffic to the completed outer northbound structure.

Phase 3: All Stage 2 and Post-Stage 2 work required for completion of Post-Stage 2 and the realignment of the northbound and southbound roadways to the final roadway lane configuration.

Title & Location: Rehabilitation of the Garden State Parkway's
Alfred E. Driscoll Bridge
Client/Owner: New Jersey Turnpike Authority
Designer: URS & DMJM
Contractor: Confi Enterprises
Cost: \$100,272,101

If you have photographs of any recent projects in our region and would like to submit them please send the photos, along with a short description, to:
Kevin.Doyle@stantec.com



NORTH JERSEY BRANCH TECHNICAL GROUPS

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

STRUCTURAL GROUP

Satish Patel
(732) 452-9200
satish.patel@jacobs.com

WATER & ENVIRONMENTAL GROUP

Ramesh Rajagopal (908) 755-0040
rrajagopal@gfnet.com

CONSTRUCTION GROUP

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TRANSPORTATION GROUP

Mittul Patel
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PROFESSIONAL ISSUES GROUP

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GEOTECHNICAL GROUP

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gkabar@converseconsultants.com
Robert Bunting (732)564-3272
Robert.bunting@aecom.com

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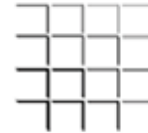
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