



**American Society  
Of Civil Engineers**

**MARCH 2003**

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2002 / 2003**

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# North Jersey Branch Newsletter

**STRUCTURAL TECHNICAL GROUP'S SPRING SEMINAR:**

## SEGMENTAL CONCRETE BRIDGE DESIGN



Segmental concrete bridges originated in popularity in the United States generally within the southern part of the country, in states where concrete was used for bridges almost exclusively. Segmental bridge construction has made its way into the Northeast, and is now a viable alternative and regularly considered for our longer crossings. It is highly likely that the selection of segmental bridges will increase as more bridge owners, designers and contractors become familiar with them. This seminar will present an overview of their history and of the various forms of this bridge type. Design and construction methodologies, which are probably more closely intertwined for this type of bridge than any other, will be presented. Our four speakers bring a wealth of knowledge on the subject, as well as being excellent presenters. Specific examples of projects involving segmental concrete bridges will be presented and discussed.

**12:30-1:20PM:** Registration and Lunch

**1:30-2:50PM:** Joseph P. LoBuono, PE, President/Technical Director, LoBuono Engineering, Inc presents an Overview of Design and Construction

**3:10-3:50PM:** Joseph M. Englot, PE, Assistant Chief Engineer, Port Authority of New York and New Jersey presents the JFK AirTrain Project

**4:00-4:40PM:** William J. Rohleder, Jr., PE, SE, Regional Director, Figg Bridge Engineers, Inc. presents the Victory Bridge, New Jersey's First Segmental Bridge

**4:50-5:30PM:** Frederick Gottemoeller, PE, RA, Principal in Rosales, Gottemoeller & Associates, Inc. presents Aesthetic Design Concepts

**DATE:**

Thursday, March 20, 2003  
RSVP to Mr. Sawarng  
Ratanalert via email to  
sratanalert@dewberry.com

**LOCATION:**

The Radisson Hotel, Route  
46 Eastbound, Fairfield, NJ  
Call 973-227-9200 for  
directions.

**COST:**

Regular: \$65  
Students: \$30  
Checks payable to  
"ASCE"

**PRESIDENT'S ADDRESS**

We had a busy February here in North Jersey, with dinner seminars given by the Construction Group and the Transportation Group, plus the Engineers Week program at the Liberty Science Center (see articles throughout this issue).

At the dinner seminar on the Portway Plan, we took a moment to present an **appreciation award to Mr. Christopher Coke**, from our Younger Members Group. For the last few years, Chris, a highway engineer at HNTB, has been chairing Engineers week at the LSC. The position requires a lot of logistics planning, coordination of volunteers, and good old patience. It's always a great success and last month was no exception, despite the weather.

In his thank you speech, Chris talked about his motivation: the kids - their enthusiasm for learning new ideas in an exciting, hands-on environment. He received a great round of applause from the crowd. We hope to be seeing a lot more of Chris, as a future leader in the North Jersey Branch.



Also last month, **we finally launched our very own website!** For years, members have expressed the desire to be able to access information on-line, download forms, and find out what's next on the calendar. So for the past year, I've spearheaded the project to develop a professional website, with much support from the Board and the Technical Group Chairs. In particular, many thanks goes to Chris Taylor, our Vice President, who luckily has website experience, and an eye for detail. So visit us at <http://branches.asce.org/northjersey> and email me with your thoughts and comment !

In upcoming news, it's time to **elect your 2003-2004 Branch Officers**. The ballot on the next page, includes experienced officers that many of you may already recognize. However, I'd also like to introduce two new nominees. As a nominee for Director, **Professor Hal Deutschman** comes from NJIT, where he actively advises many of the ASCE-partnered programs such as the Concrete Canoe Contest, West Point's Virtual Bridge Contest, NJIT's own Steel Bridge Competition, and their two-week outreach program to High School students known as The Summer Institute.

As a nominee for Secretary, Mr. Satish Patel is an active member of the Structural Technical Group, and has coordinated STG seminars in the past.

All the nominees on the slate have proven themselves to be dedicated to their profession and the industry. *So I urge all members to vote and choose your future leaders!*

Our **Annual Branch Awards Dinner** is scheduled for Friday, **May 16th**. For this final event of the year, we seek out the many individuals whose achievements and works warrant recognition among their peers, family and friends. **We need your help on this task** – on page 4 of this issue is a nominations form listing the many civil engineering awards available to individuals in the North Jersey community. If you know of anyone who fits the descriptions shown, please take the time to fill out the form for those who deserve the acknowledgement. With such a large membership base, the Branch's Executive Board relies on input from you.

Until next time,

Gita Sheth, PE  
Booz | Allen | Hamilton

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*Due April 15<sup>th</sup>.*

**Scholarship Applications** - For both High School and College Students..... **Page 5**  
*Due March 31<sup>st</sup>*

**OSHA 10-hour Certification Class** – Reservations are required for this two day class and space is limited ! ..... **Page 6**

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**Engineers Week** – Undaunted by the weather!  
Update on events at the Science Center .... **Page 7**

**OFFICIAL BALLOT**

**North Jersey Branch Officers – 2003 / 2004**

Instructions: In the right-hand column, mark your vote for each office as indicated. Write-in candidates are permitted; eligibility and willingness to serve will be verified. In order to be valid, ballots must be signed and all information requested at the bottom must be provided. In order to be counted, this ballot must be received on or before April 15, 2003 by the Branch President: Ms. Gita Sheth, P.E., Booz Allen Hamilton, Three Gateway Center, Suite 1625, Newark, New Jersey 07102 Or by fax to (973) 456-5015.

		Indicate Vote Here
<b>President</b>	<b>(No Vote Required)</b>	
<b>Gareth Middleton, P.E.</b>		
<b>President – Elect</b>	<b>(Vote for One Candidate)</b>	
<b>Christopher Taylor, P.E.</b>		
<b>Write-In Candidate</b>		
<b>Vice President</b>	<b>(Vote for One Candidate)</b>	
<b>Lamis Malak, P.E.</b>		
<b>Write-In-Candidate</b>		
<b>Secretary</b>	<b>(Vote for One Candidate)</b>	
<b>Satish Patel, P.E.</b>		
<b>Treasurer</b>	<b>(Vote for One Candidate)</b>	
<b>Richard Mehrman, P.E.</b>		
<b>Write-In-Candidate</b>		
<b>Director(s)</b>	<b>(Vote for Two Candidates)</b>	
<b>Dr. Harold Deutschman, P.E.</b>		
<b>Michael Murno, P.E.</b>		
<b>Write-In Candidate</b>		
<b>Write-In Candidate</b>		
<b>Your Name (Print):</b>		<b>Membership No.</b>
<b>Signature:</b>		<b>Date:</b>

Ballots are also available online at <http://branches.asce.org/northjersey/>

## ASCE North Jersey Branch - 2003 Civil Engineering Awards

Description	Criteria
<b>Civil Engineer Of the Year</b> This award is presented to an individual who has contributed substantially to the advancement of the civil engineering profession.	1. ASCE membership grade of Member, Fellow, Honorary or Life Member. 2. Member in good standing with the New Jersey Section and North Jersey Branch.
<b>Young Civil Engineer of the Year</b> This award is presented to a young civil engineer who has significantly contributed to the civil engineering profession.	1. ASCE Membership must be at least Associate Member. 2. Must be 35 years of age or younger as of February 1, 2003. 3. Must be in good standing with New Jersey Section & North Jersey Branch.
<b>Service to the People Award</b> This award is presented to an elected or appointed government official who has contributed substantially to the status of the civil engineering professional by their meritorious public service.	1. Holds office in a jurisdiction that corresponds to an area within the boundaries of the North Jersey Branch.
<b>Educator of the Year Award</b> This award is presented to an outstanding educator who has contributed substantially to the field of civil engineering through their knowledge and guidance.	1. Must be affiliated with an educational institution located in the State of New Jersey. 2. Institution must support a Civil Engineering (or Civil Engineering Technology) curriculum
<b>Government Civil Engineer Of the Year Award</b> This award is presented to an individual who has contributed substantially to the advancement of the civil engineering profession in the government sector.	1. ASCE membership grade of Member, Fellow, Honorary or Life Member. 2. Member in good standing with the New Jersey Section and North Jersey Branch.
<b>Excellence in Journalism Award</b> This perpetual award is presented in the name of a journalist or publication that has reported on the accomplishments of those persons or accomplishments in the field of Civil Engineering.	1. Journalist or publication is geographically located OR covers relevant topics within the boundaries of the North Jersey Branch; 2. Advance public knowledge and understanding of Civil Engineers; 3. Describe the relevant project or issue and the Civil Engineer's role in the project

### Nomination Form



Nomination By: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number & Email: \_\_\_\_\_

**Name of Nominee:** \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Job Title: \_\_\_\_\_

Employer/ School: \_\_\_\_\_

Member of ASCE: yes \_\_\_\_\_ no \_\_\_\_\_; If yes, Membership Grade \_\_\_\_\_

Award(s) Nominated For (list all that apply): \_\_\_\_\_

Please list academic degrees, involvement in other profession societies, civil or charitable activities, other awards or honors:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Achievement:** Please support the candidate's nomination with a brief statement of 200 words or less, on a separate sheet.

**Excellence in Journalism Award:** Include a copy (original or photocopy) of the article as it appeared in the publication, which should include the publication's masthead and date of publication, article title, publication date, publication name, publication phone and fax, and the journalist's editor and publisher, and a description of how the entry meets the criteria.

**Please fax this completed form and attachments to Gareth Middleton at (973) 456-5015 by April 15, 2003**

Additional forms also available on-line at <http://branches.asce.org/northjersey/>

## NORTH JERSEY BRANCH CONTINUES SCHOLARSHIP PROGRAMS

### \$1000 for High School Graduates

Due to a great response last year, the North Jersey Branch is pleased to offer **two \$1000** scholarships to graduating high school seniors residing in the North Jersey area, i.e. Sussex, Warren, Morris, Passaic, Bergen, Essex, Union or Hudson Counties. Eligible applicants must graduate this spring and intend to pursue a civil engineering curriculum in the Fall of 2003.

### \$1500 for College Juniors

The North Jersey Branch also annually awards a scholarship to college juniors. Students who are eligible for the **\$1500** scholarship must be currently studying Civil Engineering at one of the following accredited institutions:

Stevens Institute of Technology  
New Jersey Institute of Technology  
Fairleigh-Dickinson University

For full details and to get an application packet, go to <http://branches.asce.org/northjersey/> and click on the "Student Center" page where you can download the scholarship forms. Or contact Eugenia Roman at (201) 656-8810 or [eroman@hardesty-hanover.com](mailto:eroman@hardesty-hanover.com). The application deadline is **March 31, 2003**.



## **North Jersey Branch**

### **Announces the launch of their new website !**

You're now just a click away from being on top of local happenings....

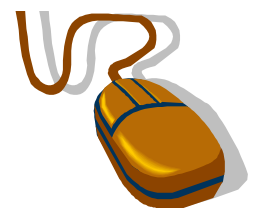
Browse through & bookmark your favorites:

- Technical Groups
- The Student Center
- Younger Members Group
- Calendar of Events
- Membership Information

Download newsletters, scholarship forms, flyers, articles, and more!

**<http://branches.asce.org/northjersey/>**

*Get the most out of your membership !  
Visit often for the latest news & upcoming events & new features*



## TRANSPORTATION TECHNICAL GROUP HOSTS PORTWAY SEMINAR



*NJDOT Project Manager Fred Kashani speaks about the proposed Wittpenn Lift Bridge. NJDOT's Steve Hochman shown in the foreground.*

North Jersey Branch's Transportation Technical Group (TTG) hosted its first joint meeting with the American Society of Highway Engineers (ASHE) on February 27th at the Newark Club. With over 120 people in attendance, the seminar was huge success, due to the topical nature of the issues and the reputations of speakers presenting.

Mr. Talvan Davis, Manager at the Bureau of Intermodal Planning at NJDOT, described how the Portway program will improve highway access between the Port of Newark-Elizabeth, Air/seaport Complex, intermodal rail facilities, trucking and warehousing/transfer facilities, and regional surface transportation system. As part of this program, the NJDOT has undertaken 11 independent projects - three of which are under construction; two are in the Final Design and six in the Feasibility Assessment phase. The goals of these projects are to improve safety and support seamless intermodal connections, relieve congestion, meet future demands of port and rail facilities, promote economic development, and improve access to brownfields to facilitate their re-use.

Mr. Steve Hochman, NJDOT Project Manager, presented on one of the key Portway projects, Route 1& 9T, St. Paul's Viaduct Redevelopment, currently scheduled for construction in 2006. This project will construct roadways and structures to replace aging infrastructures, improve traffic circulation and increase safety. The anticipated construction cost is \$180M.

Mr. Fred Kashani, also a Project Manager at NJDOT, presented on the Route 7, Wittpenn Bridge replacement project. This project, which is in Final Design, includes replacing about a mile of Route 7, replacing existing Wittpenn Bridge and reconfiguration of the Fishhouse Road Interchange. The design phase included study of the moveable vs. fixed span over Hackensack River, which resulted in the selection of the moveable bridge option. The construction of this \$360M project is anticipated to begin in 2007.

## OSHA CONSTRUCTION COMPETENCY TRAINING

**DATE:** April 3<sup>rd</sup> & April 17<sup>th</sup> 2003 (Must attend both parts to obtain completion card)

**TIME:** 8AM to 1PM

**LOCATION:** New Jersey Institute of Technology in Newark, New Jersey

**COST:** \$85 (Early Registration by 3/27)  
\$100 (After 3/27)

### **SEMINAR OVERVIEW**

This seminar, taught by an OSHA accredited instructor, will provide you with the information and training you need to understand OSHA's "Construction Industry Standards." You will learn how to prevent unnecessary injuries and deaths at your work site, and how to develop and enforce a safety plan for all aspects of construction.

### **SEMINAR BENEFITS**

- Avoid potential fines imposed by OSHA for safety violations.
- Develop a comprehensive safety program for all aspects of construction.
- Understand how money spent on safety is an investment, not an expense.
- Find out why safety affects all phases of a project and personnel on a construction site.
- Learn how to implement and enforce a safety program.

### **SPECIAL FEATURES**

Each participant will receive a copy of the "OSHA Safety and Health Standards for the Construction Industry" and a card of completion from OSHA.

### **RESERVATIONS ARE REQUIRED**

Please contact Mr. Luigi Zecchin @ (201)-797-7400 or [lzecchin@pimie.com](mailto:lzecchin@pimie.com) to make reservations. Information for the Newark Club, including directions is available at [www.newarkclub.com](http://www.newarkclub.com).





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*Welcome to our newest newsletter sponsor!*

**NORTH JERSEY TECHNICAL GROUPS**

Join Us! Become a part of one of these groups and get involved with others in your field of interest. Whether you just want to help out, or if you have ideas & speaker contacts, we are always interested in new members and future leaders.

To see what the Technical Groups have been up to, visit <http://branches.asce.org/northjersey/> And click on "Technical Groups" along the top menu bar.

For more information, contact Ali Vaezi, Chair of the Technical Committees, at [avaezi@dewberry-goodkind.com](mailto:avaezi@dewberry-goodkind.com) OR the chairpersons listed below:

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Ken Clausen - (201) 438-6166  
[kclausen@dewberry.com](mailto:kclausen@dewberry.com)

**TRANSPORTATION TECHNICAL GROUP**

Scott Derector - (908) 755-0040  
[sderector@gfnet.com](mailto:sderector@gfnet.com)

**WATER RESOURCES GROUP**

Arif R. Malick - (908) 534-4995  
[malick@malickandscherer.com](mailto:malick@malickandscherer.com)

**ENVIRONMENTAL GROUP**

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Jay Meegoda - (973) 596-2464  
[meegoda@njit.edu](mailto:meegoda@njit.edu)

**ENGINEERS WEEK 2003 – UNDAUNTED BY THE WEATHER!!**



*E-Week volunteers present their wares to the event audience*

National Engineers Week is celebrated annually in February throughout the country to recognize engineering of all disciplines. In New Jersey, the Liberty Science Center conducts special activities all week long. ASCE's NJ Section, has been a key participant there for many years, hosting a variety of interactive exhibits and hands-on activities. Normally, thousands of kids show up at the LSC as it serves as a great outreach to future engineers.

While the blizzard of 2003 cancelled the first day, and the rain and fog dampened the second day, the kids still came and ASCE was ready. Many thanks to Christopher Coke, ASCE's Chairperson for the event, and to all the engineers and friends who volunteered their time for the kids!

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(973) 643-4007

**Upcoming Events:**

**April 3<sup>rd</sup> & 17<sup>th</sup> – OSHA 10-Hour Training**

Topic: A basic 10-hour safety seminar  
Location: NJIT, Newark  
See inside for more info.

**April 24<sup>th</sup> – Transportation Technical Group Half-day Seminar**

Topic: Smart Growth and its Impact to Transportation Engineering in NJ  
Location: The Newark Club

**May 10<sup>th</sup> – Quarry Process Plant Tour**

Location & Time: TBD

**May 16<sup>th</sup> – Annual Branch Awards Dinner** at the Radisson