

FEBRUARY 2002

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**American Society
of Civil Engineers**

North Jersey Branch Newsletter

FEBRUARY DINNER SEMINAR

**Restoration of Passenger Transportation
To Lower Manhattan**

The City and the people of New York are committed to rebuilding Lower Manhattan and restoring its place as a key tourist destination and economic engine in the region. To achieve this, fully restored and operational passenger transportation between Lower Manhattan, New Jersey, and West Midtown is critical.

Our speakers will discuss the bi-state rebuilding efforts currently underway and discuss the future plans for restoring PATH and IRT services to this area. This will be an exciting evening as critical design and scheduling issues are brought to light so that our engineering community may better understand the complexities involve

SPEAKERS:

Mr. Jerrold Dinkels, P.E. - Engineering Program Manager, Downtown PATH Restoration Program, Engineering Department, PA of NY & NJ.

Mr. Joseph N. Sciano, P.E. - Vice President / Program Executive System Expansion, Capital Program Management, New York City Transit

DATE: Thursday, February 21, 2002

TIME: Cash Bar opens at 6:00 PM, Dinner and Presentation to follow.

RSVP by FEB. 14:

Chris Taylor
973-893-6000 or
ctaylor@systrausa.com

***Space is Limited,
Reserve Early***

LOCATION:

The Newark Club
One Newark Center
Newark, New Jersey
(973) 242-0658

COST:

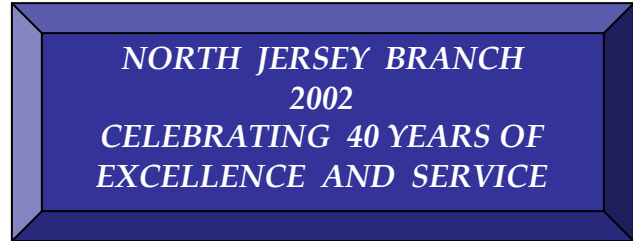
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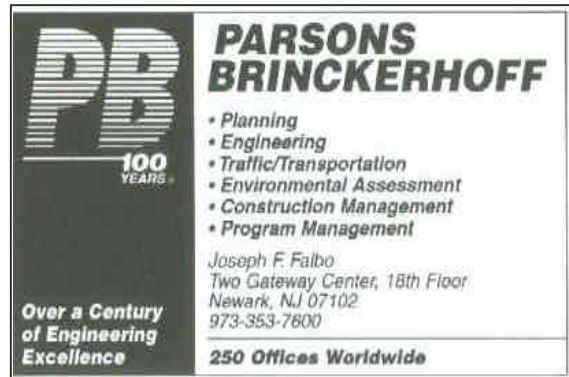
PRESIDENT'S ADDRESS

The month of February has been synonymous with Engineers Week for several years now. It is especially important to the North Jersey Branch/New Jersey Section since many members of the branch and section dedicate a great deal of time and effort in coordinating and orchestrating the engineering-related activities for some 8,000 students each year at the Liberty Science Center in Jersey City. The activities scheduled for this year are sure to intrigue parents, teachers and students of all ages. I strongly encourage you to encourage teachers, troop leaders, and neighborhood children to make a visit to the Science Center on February 18th or 23rd.

Our February 21st dinner seminar (see front page) is sponsored by the Transportation Technical Group. Several speakers from Port Authority and NYCT will present future plans for the rebuilding efforts currently underway in New York City. We will also be celebrating our 40th Anniversary and making an award presentation at the dinner seminar. Please consider joining us for an enjoyable evening.

Many thanks to our newsletter sponsors, who are shown throughout this issue...



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Attention North Jersey Readers:
Do you have any interesting news, photos, upcoming events, or solicitations ?
If so, please contact the newsletter editor at
Sheth_Gita@bah.com

DEADLINE APPROACHES FOR "TOP 10 NEW JERSEY CIVIL ENGINEERING PROJECTS"

The submission deadline for nominations for the Top 10 New Jersey Civil Engineering Projects is **February 15, 2002**. The Top 10 New Jersey Civil Engineering Projects will recognize the accomplishments of the Civil Engineer in New Jersey as part of ASCE's New Jersey Section Gala on May 11, 2002, at the New Brunswick Hilton.

The year 2002 marks the 150th Anniversary of the founding of The American Society of Civil Engineers. The New Jersey Section's Celebration of this historic event includes the selection of the Top Ten Civil Engineering projects in the State New Jersey. The Top Ten Projects will be chosen from projects submitted to the Committee through the official entry form, which have been constructed within the last 150 years. Projects for which construction is completed by the entry due date are also eligible. The Top Ten Projects will be judged and chosen based on the criteria described in the application. For application and complete information on the statewide award, please visit ASCE's NJ Section website at

<http://sections.asce.org/newjersey/sec-150-top10.html>



CALENDAR OF EVENTS

- | | |
|------------------------------|---|
| February
15 th | DEADLINE for "TOP TEN ENGINEERING PROJECTS IN NEW JERSEY" Awards to be presented at the 150 th Gala Event. (see above).
Contact: Mike Murno at 212-619-5300 or mmurno@ekmail.com . |
| March
8 th | DEADLINE for "CIVIL ENGINEER OF THE YEAR" nominations - see insert. |
| March 14 th | Half-day seminar at the Radisson: "Geotechnical Engineering for Structural Engineers." (See page 4) |
| March/
April 2002 | "OSHA 10-hour Construction Standards Competency Training" to be held at NJIT. Organized by the Construction Group. (See page 4). |
| May 2 nd | Full Day Symposium on Tunnels. Presented by the Transportation Group. |
| May 11 | New Jersey's Gala Event, celebrating ASCE's 150 th Anniversary. Hosted by the North, Central and South Jersey Branches of the ASCE. |

NORTH JERSEY TECHNICAL GROUPS

Get Active! Become a part of one of these groups and network with others having similar interests. For more information, contact Ali Vaezi, Chair of the Technical Committees, at avaezi@goodkindinc.com OR contact the individual committee chairs listed below:

STRUCTURAL GROUP

Ken Clausen - (201) 438-6166
kclausen@goodkindinc.com

CONSTRUCTION GROUP

A.J. Nayee - (973) 491-8984
anayee@njtransit.com

TRANSPORTATION GROUP

Christopher Taylor - (973) 893-6000
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PROFESSIONAL ISSUES GROUP

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WATER RESOURCES GROUP

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E-Mail: malick@worldnet.att.net

ENVIRONMENTAL GROUP

Sam Ezeldin - (201) 755-2292
E-Mail: samezeldin@aol.com

GEOTECHNICAL GROUP

Jay Meegoda - (973) 596-2464
E-Mail: megoda@megahertz.njit.com

NOMINATION FORM FOR NORTH JERSEY BRANCH
2002 CIVIL ENGINEER OF THE YEAR AWARD

The North Jersey Branch annually recognizes fellow engineers that have made significant contributions to the industry over the past year. We are currently soliciting nominations for this year's North Jersey Branch **Civil Engineer of the Year Award**. This award is presented to an individual who has contributed substantially to the advancement of the civil engineering profession.

Criteria:

- ASCE membership grade must be either Member, Fellow, Honorary or Life
- Member in good standing with the New Jersey Section and North Jersey Branch

The award will be presented at the **150th Anniversary Gala Dinner** on **May 11th** at the New Brunswick Hilton.

Please **FAX** the completed form below and the achievement statement to Eugenia Roman at 201-656-9026 by **MARCH 8th, 2002**

Nomination By: **Phone Number:**

Address:

Name of Nominee: **Phone Number**

Address:

Employer:

Job Title:

Member of ASCE: **yes** **no** **If yes, Membership Grade**

Awards or Honors Nominated For (list all that apply):

Please list academic degrees, involvement in other professional societies, civil or charitable activities.

Achievement: Please support the candidate's nomination with a brief statement of 200 words or less. (Please use separate sheet.)

GEOTECHNICAL ENGINEERING FOR THE STRUCTURAL ENGINEER

**HALF-DAY STRUCTURAL SEMINAR
MARCH 14, 2002 2 PM – 6 PM**

Many structural engineers think of geotechnical engineering as some sort of "voodoo magic". Three local experts will try to dispel this notion by explaining the process that geotechnical engineers go through in assisting in the design of structures. In addition, they will discuss what a structural engineer should expect from the geotechnical engineer. Topics will include an overview of the fundamental geotechnical concepts, the importance of developing and implementing a proper subsurface exploration program, and the process used for geotechnical design of foundations, embankments, and retaining wall systems. Potential pitfalls in geotechnical/structural communication will be discussed.

Speakers:

Dr. Thomas Thomann, P.E., URS
Dr. Issa Oweis, P.E. Converse Consultants
Mr. Dennis Poon, P.E. LZA

Location: Radisson Inn, Route 46 East in Fairfield
973-227-9200

Cost: \$40 / Students - \$25 (includes refreshments)

RSVP: Sawarnng Ratanalert @ 201-438-6166
sratanalert@goodkindinc.com

Reserve Early! Attendance is limited to 60.
Make Checks payable to "ASCE" and mail to:
S. Ratanalert, PE c/o Goodkind & O'Dea, Inc
P.O. Box 1708, Rutherford, NJ 07070-0708

OSHA 10-HOUR CERTIFICATION OFFERED TO ASCE MEMBERS

This seminar is taught by an OSHA accredited instructor and will provide the information and training needed to understand OSHA's "Construction Industry Standards." Attendees will learn how to prevent unnecessary injuries and deaths at their work site, and how to develop and enforce a safety plan for all aspects of construction, including:

- * Scaffolding
- * Hand and power tools
- * Fire protection
- * Electrical work
- * Rigging & Materials Stage
- * Excavation
- * Crane operation
- * Personal protective equipment
- * Fall protection

Attendees will receive certification for "OSHA 10-hour Construction Standards Competency Training".

Due to the high demand of this class, the seminar is offered to ASCE members only.

Date: 3/27/02 First 5-Hour Session
4/10/02 (tentative) Second 5-Hour Session

Time: 8AM to 1PM

Location: NJIT Information Technologies Center,
Newark, NJ

Cost: Projected \$75

Contact: Gareth Middleton @ 973.273.0076
gmiddleton@tishman.com



NORTH JERSEY BRANCH RECEIVES "OUTSTANDING LARGE BRANCH AWARD"

At the Zone 1 Management and Leadership Conference held in Hartford Connecticut, Gareth Middleton, North Jersey Branch Vice President (far right) accepts the award from National President Gerard Schwartz.

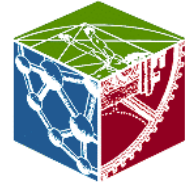
New Jersey Section members also shown, from left to right, Aiino-Liis Tootsov, Kevin Sylvestor and Scott Lubarsky.

ENGINEERS WEEK 2002



Without Engineers, the World Stops !

**February 17 - 23, 2002
Liberty Science Center**



**NATIONAL ENGINEERS WEEK® 2002
FEBRUARY 17-23**

WHAT: Come join the North Jersey Branch of the American Society of Civil Engineers and other engineering organizations for a day of fun-filled, hands-on activities at the **Liberty Science Center**. Come meet engineers and scientists who can guide you through some interesting topics using demonstrations that are suitable for all ages. Some of the topics and activities that will be covered are:

- What is engineering and what are the different types of engineering?
- Build a bridge with stick and gumdrops to help understand how bridges are made.
- Learn about engineers and inventors that have made important technical breakthroughs.
- How does quicksand work?
- What is alternative energy and how does it work?
- What do we need to do to make sure our planet is "healthy" for us in the future?
- Learn about the past, present and future of engineering.

Plus much more..... Fun for everyone!

WHEN: **Monday February 18 and Saturday February 23 / 9:30AM – 5:30PM Both days**

WHERE: Liberty Science Center, Jersey City, NJ
Exit 14B, NJ Turnpike (from NYC and east)
Exit 14C, NJ Turnpike (from NJ and west)
Check <http://www.lsc.org/visiting/tickets/tickets.html> for relevant ticket prices and movie times.

WHY: To celebrate the beauty of the sciences and engineering in a positive learning environment.
To pay tribute to engineers and inventors who have made advances in engineering and science, which are contributions that have improved our everyday lives.

HISTORY: Founded in 1951 by the National Society of Professional Engineers, National Engineers Week is celebrated annually by thousands of engineers, students, teachers, and leaders in government and business. The National Engineers Week consortium includes more than 100 engineering, scientific, & education societies, and major corporations dedicated to increasing public awareness and appreciation of engineering. Co-chairs for 2002 are the ASCE, celebrating its 150th anniversary, and DuPont celebrating its 200th anniversary.

VOLUNTEERS WELCOME !

Come help us explain the exhibits, coordinate the interactive activities, and spread the word on the interesting world of engineering. **PERCS** include free parking, free family admission and more!

For details on available time slots, contact Chris Coke at CCOKE@HNTB.COM or at 973-237-1650 ext 3061.

ASCE 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 a \$1000 scholarship to graduating high school seniors residing in the North Jersey district, 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 at a college/university in the Fall of 2002.

For an application packet, see your guidance counselor, or contact Eugenia Roman at (201) 656-8810 or eroman@hardesty-hanover.com for an electronic or hard copy application. Deadline for the applications is **April 5, 2002**.

\$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 an application, please see the faculty advisor or contact: Ralph Dinkle at 201-262-7000 or ralph_dinkle@urscorp.com.

The application deadline is **April 5, 2002**.

CUB SCOUT CONSTRUCTION

The Construction Technical Group of the North Jersey Branch recently sponsored a successful field trip to the Cub Scouting Pack 12, Den 5A of Montclair, NJ. On Saturday January 12th, more than two dozen Cub Scouts and parents visited **NJ Transit's Secaucus Transfer Station**, one of the largest mass transit projects currently underway.

The kids got to witness first hand the excitement behind the construction of buildings, trackwork, bridges and roadways, complete with heavy machinery and electrical equipment. This real-life playground was a great introduction to engineering-in-action.

The Secaucus Transfer is an integral part of NJ Transit's "Urban Core Program", an assemblage of railroad improvement projects specifically undertaken to transform the state's fragmented commuter rail network into a more efficient, coordinated system.



The new station will serve as the interconnecting node for ALL NJT rail lines serving northern New Jersey, permitting North Jersey commuters to transfer to all Northeast Corridor (NEC), North Jersey Coast Line, and Mid-Town Direct trains. The station has also been designed for commercial development by Secaucus Connection LLC. Construction began in 1995 and is currently over 75% completed, with Operations are expected to begin in 2003.

The North Jersey Branch would like to thank **Mr. Rob Edwards of NJ Transit** for setting up the field trip, providing their on-site facilities and transportation from and to the construction site. Thanks also to Mr. Warren Gaskill of DMJM+Harris who assisted in the on-site tour.

GARETH'S PICKS

This month's installment once again lists interesting programs for curious minds. Both new shows and classic topics are scheduled for February.

Leave this page near your remote, as a reminder of What's On. Programs are listed by channel.

The Learning Channel**World Trade Center: Anatomy of the Collapse**

Explore the history of how the twin towers were built, survived one major terrorist attack, and then came down seven years later when the second attack occurred. CGI graphics, eyewitnesses and expert interviews unravel the events of September 11th.

Wednesday, Feb. 6 @ 1:00 AM; 10:00 PM

Sunday, Feb. 10 @ 6:00 PM

Kansai International Airport

The largest public works project of the century, Japan's newest airport has a terminal a mile long built on a man-made island. It is connected to the mainland by a three-mile-long bridge and is so large, it is visible from outer space.

Feb. 13 @ 8:00 PM; 11:00 PM & Feb. 16 @ 2:00 PM

Statue of Liberty: Building a Colossus

Explore the history behind one of America's most revered icons, a national symbol that almost didn't make it to the U.S. Go behind the scenes of a massive \$260 million restoration; computer imagery reveals the engineering genius behind the construction. **Friday, Feb. 22 @ 12:00 AM; 9:00 PM**

History Channel**International Airports**

Everyday 3-million passengers board the 10,000 aircraft flying at any given moment. Go behind the scenes at international airports to see the inner workings that make commercial air travel possible--from ground control in air traffic towers, the plane's cargo holds and high-tech security, and back to earth at customs. **Wednesday, Feb. 20 @ 7:00 AM**

Great Towers in the Sky

Viewer discretion is advised for those with vertigo! Featuring rare construction footage and interviews with architects, the program climbs to the top of the world's largest towers including Seattle's Space

Needle, Canada's CN Tower, and Las Vegas's Stratosphere. **Thursday Feb. 21 @ 1:00 PM**

Roller Coasters: The Search for the Ultimate Thrill Ride

Since the turn of the 20th century, designers have competed to build them faster, taller, and steeper. But as technology pushes the envelope with flips, weightlessness, and more g-force than a jet, how many thrills can the human body take?

Friday, Feb. 22 @ 1:00 PM

The Discovery Channel**Secrets of the Great Wall**

The greatest defensive structure ever built by man, China's Great Wall has remained a mystery. For 3,000 years, it dominated China's landscape and culture. With unprecedented access, discover the secrets of the Wall's design and construction.

Wednesday, Feb. 13 at 10:00 PM

When Buildings Collapse

Buildings don't just fall down. There's always a reason. Find out what shoddy workmanship, cheap materials or violations of safety standards in the name of profit can do to the stability of any structure.

Monday, Feb. 18 @ 2:00 AM; 10:00 PM

Saturday, Feb. 23 @ 4:00 PM

Dangerous Jobs: Construction

The construction industry spends millions to try to bring down a lethal accident rate, but accidents still happen that cost hundreds of billions of dollars. Massive equipment and dangerous sites aside, the real killers are asbestos, lead and silicosis.

Monday, Feb. 18 @ 4:00 PM

Hoover Dam

Building the Hoover Dam was such an enormous project that it remains one of America's seven modern wonders of civil engineering. Though today it's one of 14 dams along the Colorado River, the Hoover was the first, biggest and most expensive.

Monday, Feb. 25 @ 12:00 AM; 8:00 PM

Engineering the Impossible

Push the limits with extraordinary projects, including construction of a Europe-to-Africa Bridge and a tunnel across the Straights of Gibraltar. High-end graphics and technology offer a glimpse into advances that will realize these engineering dreams.

Monday, Feb. 25 @ 1:00 AM; 9:00 PM

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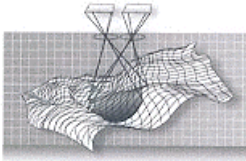
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