

**FEBRUARY 2003**

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2002 / 2003**

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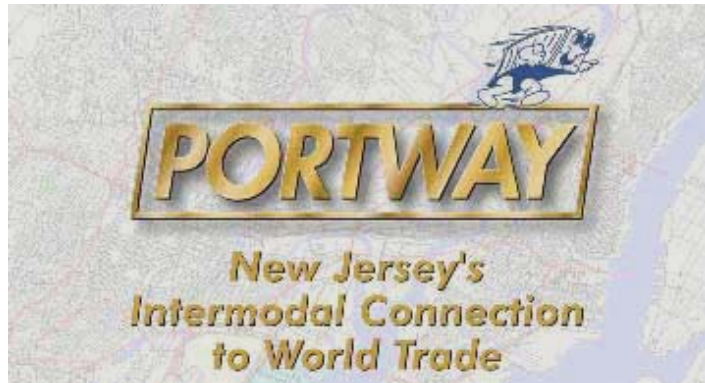
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**American Society  
Of Civil Engineers**

## North Jersey Branch Newsletter

### 2003 ASCE/ASHE TRANSPORTATION DINNER SEMINAR



Rt. 7 Wittpenn Lift Bridge

Fred Kashani, Project Manager, NJDOT

Route 1&9T

Steve Hochman, Project Manager, NJDOT

Portway Activities and Studies

Talvin Davis, Manager, Bureau of Intermodal  
Planning and Coordination, NJDOT

The Portway International Intermodal Transportation Corridor includes both rail facilities and roadways between the Newark-Elizabeth airport/seaport complexes and is essential to the efficient movement of people and goods within the New York Metropolitan region. Join us as representatives from the New Jersey Department of Transportation discuss the status of all Portway projects including planned improvements, on going construction and studies underway to coordinate freight and intermodal projects in this region. Presentations will include the discussion of two key projects that form a vital link in the Portway network. Use this opportunity to learn about these projects, new concepts and to network with members of ASCE and ASHE.

**Date:** Thursday, February 27, 2003

**Time:** Reception begins at 6:00 PM, Dinner & Presentations to follow.

**RSVP BY FEBRUARY  
21<sup>ST</sup> TO:**

Rajani (Jenny) Nair at  
(646) 252-4745 or  
[rajnair@nyct.com](mailto:rajnair@nyct.com)

**LOCATION:**

The Newark Club, One  
Newark Center, Newark, NJ  
(973) 242-0658  
Directions can be found at  
<http://www.newarkclub.com>

**COST:**

Regular: \$55  
Students: \$30  
Checks payable to  
"ASCE-North Jersey  
Branch"

**For more info, check out this link: <http://www.state.nj.us/transportation/portway>**

## PRESIDENT'S ADDRESS

*In lieu of my address, this month's editorial piece comes from our Vice President, Christopher Taylor. Chris recently attended ASCE's Zone 1 Workshop for Section and Branch Leaders in Albany, NY. If you are a regular at our seminars, you may recognize Chris Taylor as a past Chairman of the Transportation Technical Group, which is one of the Branch's most successful committees. His feedback on the Workshop is appreciated...*

*I urge everyone to rise to his challenge to get involved.*



“Playing an active role in ASCE requires a commitment in time that often conflicts with work or personal goals. Indeed, my wife was not thrilled with me heading to the three-day-long 2003 Workshop for Section and Branch Leaders held this past month - over a weekend. But BOY, am I happy I went.

The workshop brought together active volunteers serving Zone 1 Sections and Branches, Younger Member Groups, and Student Chapters. The ASCE Administrators provided expert planning and management of daily programs, activities to develop relationships with other attendees, and presentations by ASCE national officers. They put together an invigorating and educational experience that helped me grow as much as a Professional Engineer and citizen as it did an ASCE Board member. They are to be commended.

What struck me was the broad scope of ASCE's support for Civil Engineers, Civil Engineering, and civilization. We all know about the junk mail, the insurance plans, and the magazines that ASCE makes available to each of us, but I fear most are not aware of the more important things - and nor was I.

- From college through retirement ASCE provides their members career guidance, licensing and ethical guidelines, networking opportunities, and recognition.
- They lead effective lobbying efforts on behalf of engineers and the needs of our built environment, and run programs to assist us with our local efforts.
- ASCE brightens the future of Civil Engineering with outreach efforts to children, and strategies to enhance the standards and processes of Professional Practice.

- And, ASCE provides outstanding educational opportunities including scholarships, mentoring, seminars, and formal Continuing Education classes.

An idea was raised at the workshop that really intrigued me. Volunteer efforts in ASCE need not be a long-term commitment of regularly scheduled activities that only masochists are interested in. And so, I challenge you to contact me with an idea, be it to support one housing effort, to speak to one middle school class, to protect one historic structure, or to nominate one colleague for an ACSE award. Wouldn't it be great if each of you volunteered for some single activity? **Get involved!** – You will be surprised at the support you will receive from ASCE National, and the North Jersey Branch.”

Christopher J. Taylor, P.E.  
Vice President, North Jersey Branch  
[ctaylor@systrausa.com](mailto:ctaylor@systrausa.com)

## 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.

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

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kclausen@dewberry-goodkind.com

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# COME AND JOIN US FOR ENGINEERS WEEK 2003



## “TURNING IDEAS INTO REALITY”



*At the Liberty Science Center*

**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 in Jersey City, NJ**. 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 structure with toothpicks and gumdrops to help understand how real-world structures 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! FUN! FUN!***

**WHEN:** Monday February 17, 2003 and Saturday February 22, 2003, 9:30AM – 4:00PM

**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 ticket prices.



**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 and whose contributions that have improved our everyday lives.

**ALERT:** Volunteers needed on both days from **8:30AM – 12:30PM** or **12:30PM – 4:30PM**  
**Volunteers are admitted for Free and will receive a Free T-Shirt!**  
**Contact Chris Coke below.**

**CONTACTS:**

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Shawn Savage  
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**COLLEGE STUDENTS RECEIVE ASCE AWARDS**



*Branch Board Members with the NJIT AMF and Ridgeway Award Recipients in Newark, NJ*

The North Jersey Branch Board (NJBB) has awarded qualified students of New Jersey Institute of Technology (NJIT) and Stevens Institute with the AMF and Ridgeway Awards for the 2002/2003 academic year. Typically these awards are presented at our annual awards dinner held in May of each year; however, ASCE's 150<sup>th</sup> Anniversary and our efforts with working on plans for its celebration became the focus of our attention for the awards dinner. Instead, members of the NJBB (Ms. Gita Sheth, Ms. Eugenia Roman, and Mr. Michael J. Murno) visited each of the colleges to present the awards at a student forum. The recipients for the 2002/ 2003 academic year from Stevens Institute are: the AMF Award - Emily Osborne and the Ridgeway Award - Christina M. Guariglia and from NJIT the recipients are: the AMF Award - Stephanie Ann Dubyna, and the Ridgeway Award - Luke Dubas. On behalf of the membership, the NJBB extends congratulations to these fine young students who have worked so diligently to capture their school's honors and the prestigious ASCE awards.



*Branch Board Members with the Stevens Institute AMF and Ridgeway Award Recipients in Hoboken, NJ*

**THE CONSTRUCTION GROUP CORNER**

This month on February 19<sup>th</sup> at the Newark Club, the Construction Technical Group will be hosting an open meeting with **Guest Speaker Assemblyman Paul Sarlo** of the 36<sup>th</sup> Legislative District. Mr. Sarlo, a Professional Engineer and Chief Engineer for Bishop Sanzari Construction in Hackensack is also the current Mayor of Wood-ridge and serves on various legislative committees, most notably as Vice chairman of the Labor Committee. Of particular interest to our membership is Paul's involvement as a member of the Assembly Light Rail Panel.

Come join us for an informal evening of discussion with the Group to hear of Mr. Sarlo's perspective as both a practicing Civil Engineer and Public Servant.

**The cost for this event is only \$25.00 and will include light refreshments. Reservations are absolutely required as space will be limited to just twenty-five attendees.**

Please contact Mr. Luigi Zecchin @ (201)-797-7400 or [zecchin@pirnie.com](mailto:zecchin@pirnie.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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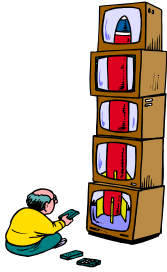
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## Gareth's Picks

With National Engineers Week being this month, there was a lot of material to choose from covering the fields of Engineering and Science. This means that there might be some surprise bonus programs out there that you might run across while surfing the dial. Happy hunting!

### The Learning Channel

#### **The Hoover Dam**

One of the seven modern civil engineering wonders of the western hemisphere, the Hoover Dam is a monument to the thousands of men and women who combined sweat, science and dreams to tame the Colorado River.

**Feb 13 2003 8:00 PM Feb 13 2003 11:00 PM Feb 16 2003 4:00 PM**

#### **Failure by Design**

Thousands of structures are designed and safely built each year, but inevitably some have flawed designs. Examine the innovations that led to disaster, like the Tacoma Narrows Bridge in Washington and the Kemper Arena in Kansas City.

**Feb 12 2003 8:00 PM Feb 12 2003 11:00 PM Feb 17 2003 2:00 AM**

#### **Super Structures IV - World's Largest Shipyard**

The town of Ulsan on South Korea's eastern coast is dominated by one of the biggest shipyards in the world. Explore the Hyundai Heavy Industries (HHI) shipyard, which spans 2 miles along the seafloor and is currently the world leader in shipbuilding.

**Feb 16 2003 8:00 PM Feb 16 2003 11:00 PM Feb 23 2003 5:00 PM**

#### **Ultimate Ten 2, The Biggest Structures**

Explore the largest of man's creations: the Millennium Wheel, Grand Princess Cruise ship, Crawler Transporter, the Pentagon, U.S.S. Harry S. Truman, Troll Platform, Channel Tunnel, Hong Kong Airport and the Arecibo Radio Telescope.

**Feb 19 2003 8:00 PM Feb 19 2003 11:00 PM Feb 24 2003 2:00 AM**

### The Discovery Channel

#### **The Largest Ferris Wheel in the World**

One of the world's most difficult artistic and technical projects looms high above London. A 450-foot wheel that carries 832 people in glass capsules and allows them to see 20 miles in every direction, cost millions and carries high hopes.

**Feb 09 2003 12:00 PM Feb 12 2003 10:00 PM Feb 13 2003 1:00 AM Feb 13 2003 6:00 AM Feb 13 2003 9:00 AM**

#### **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.

**Feb 14 2003 9:00 PM Feb 15 2003 12:00 AM Feb 16 2003 3:00 PM**

### The History Channel

#### **Chesapeake Bay Bridge & Tunnel**

Named one of the seven engineering wonders of the modern age, the Chesapeake Bay Bridge and Tunnel connects Virginia proper with its easternmost land mass. Stretching 17 miles across the historic Chesapeake Bay, the structure represents a man-made boundary between the Bay and the Atlantic. The structure includes two two-lane highways supported mostly by trestles, four man-made and one natural island, two truss bridges, and two

revolutionary sunken tube tunnels.

**Thursday, February 13 02:00 AM - 03:00 AM**

**Wednesday, February 12 10:00 PM - 11:00 PM**

#### **The Big Dig**

The Massachusetts Central Artery/Tunnel Project, a.k.a. the Big Dig, is the most amazing municipal construction project in U.S. history. Its objective--to replace Boston's decaying highway infrastructure with 160 new highway miles, half of which run underground and underwater. After 14-years construction, its cost--\$11 billion!

**Friday, February 14 03:00 AM - 04:00 AM Thursday, February 13 11:00 PM - 12:00 AM**

#### **The Alaskan Oil Pipeline**

In 1973, a desperate America, starved by an OPEC embargo, began construction on an 800-mile lifeline for its insatiable oil hunger. We'll examine this technological triumph, built over impenetrable mountains and tundra, where temperatures drop to 75 below zero.

**Wednesday, February 12 07:00 AM - 08:00 AM**

#### **Demolition**

While a civilization's greatness is reflected in the achievements of architects and engineers, equally impressive are spectacular acts of destruction throughout history. The cycle of construction and destruction reflects the shifting values of any given era. We'll trace the evolution of planned destruction from ancient to modern-day.

**Tuesday, February 18 10:00 AM - 11:00 AM**



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**Upcoming Events:**

**February 19<sup>th</sup> - Construction Technical Group Meeting**  
Guest Speaker: State Assemblyman Paul Sarlo. Location: The Newark Club. See inside for more info.

**February 27<sup>th</sup> - Transportation Technical Group Dinner Seminar**  
Topic: The Portway Plan. Location: The Newark Club. See inside for more info.

**March/April - OSHA 10-Hour Training**

**March - Structural Technical Group Half-day Seminar**  
Topic: Segmental Concrete Bridge Design. Location TBD

**April - Construction Technical Group Field Trip**  
Location: A stone quarry and asphalt batching plant in Northern NJ

