



*American Society of Civil Engineers*

North Jersey Branch Newsletter

**FEBRUARY 2007**

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2006/2007**

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## Geotechnical Group Dinner Presentation

### Redeveloping the World Trade Center Site for the Ground Up

- Speaker:** Raymond E. Sandiford, P.E., Chief Geotechnical Engineer of the Port Authority of NY & NJ
- Date:** February 28, 2007
- Time:** Reception at 5:30, Dinner at 6:30, Presentation to follow
- Location:** The Newark Club
- Cost:** \$ 55 ASCE Members, \$ 65 Non-Members, \$ 50 Government Employees, \$25 Full-Time Students with ID
- Register:** **RSVP by February 21, 2007. Send Name, phone number, and e-mail address to M. Golam Kabir, gkabir@converseconsultants.com, (973) 605-5200 x 137 or Register online at <http://branches.asce.org/northjersey> and click on the RSVP button included on the website.**
- PDH:?**

Mr. Raymond Sandiford is the Chief Geotechnical Engineer of the Port Authority of NY & NJ. Mr. Sandiford has been a design engineer with the Port Authority for 25-years, of his 35- year career. Presently, he supervises and coordinating the sub-grade design for the reconstruction of the World Trade Center Site. He received his BS from SUNY at Stony Brook and his MS-Civil Engineering from Columbia University. Mr. Sandiford is well published author of a wide range of papers dealing with unique aspects of geotechnical engineering and has given numerous presentations detailing Port Authority projects.

Mr. Sandiford will be presenting an overview of the on going construction at the World Trade Center Site. The first phase of this redevelopment involves major substructure construction which includes slurry wall construction for expansion of the existing basement, demolition of massive exiting substructures, underpinning of approximately 1,000 feet of the New York City Transits No. 1 Tunnel, a new pedestrian tunnel under West Street, and foundations for the new buildings.

Each component of the redevelopment represents a major undertaking onto itself. In concert, their simultaneous construction represents a major, if not Herculean, undertaking. The presentation will explain how each of these major components fit into the site's Master Plan and the technical challenges facing each of these activities.



## PRESIDENT'S MESSAGE

Already we are in December, the middle of the "holiday period", and we take a "holiday" from our monthly dinner meetings and look back at three varied and informative programs. Coupled with other activities, notably by our Younger member Group and Construction Technical Group, the 2006-7 year is off to a good start.

Let me talk briefly about Ethics. I think we all would agree that as engineers, we should practice in an ethical manner. But what is our Code of Ethics? There are various standards: ASCE has one, NSPE has a similar one, and there are the ethical standards of the various professional licensing boards. ASCE did not have a Code of Ethics for its first 62 years, adopting the first in 1914. Some of us older folks started out under that Code. It was changed under duress from the Justice Department in 1971 to permit, under certain guidelines, competitive bidding for work and in 1992 to permit fact based advertising. It was amended in 1996 to embrace the concept to sustainable development, and amended again this year to call for "zero tolerance" for bribery, fraud and corruption. The latter is aimed at international work as well as within the US.

The meat of the ASCE Code of Ethics are seven "shall's" comprising the Fundamental Canons which build upon Fundamental Principles and are then supported by the "Guidelines to Practice" which expands upon them. The Fundamental Canons are:

1. Engineers shall hold paramount the safety, health, and welfare of the public and shall strive to comply with the principles of sustainable development in the performance of their duties.
2. Engineers shall perform services only in the areas of their competence.
3. Engineers shall issue public statements only in an objective and truthful manner.
4. Engineers shall act in professional matters for each employer or client as faithful agents or trustees, and shall avoid conflicts of interest.
5. Engineers shall build their professional reputation on the merit of their services and shall not compete unfairly with others.
6. Engineers shall act in such a manner as to uphold and enhance the honor, integrity, and dignity of the engineering profession and shall act with zero-tolerance for bribery, fraud, and corruption.
7. Engineers shall continue their professional development throughout their careers, and shall provide opportunities for the professional development of those engineers under their supervision.

The full text of the Code of Ethics and "Guidelines to Practice" and further discussion can be found at [www.asce.org/inside/codeofethics.cfm](http://www.asce.org/inside/codeofethics.cfm). In *Civil Engineering News* there is a monthly article discussing a particular ethics case. ASCE maintains an Ethics Advisory Line (703-295-6061) which is available to all Society members. ASCE also supports the *Order of the Engineer* in which engineers pledge to uphold high ethical standards. At the Branch Annual Awards Dinner there will be an opportunity to join.

### Calling All Nominations!

The **New Jersey Section Awards Committee** is calling for Nominations for the Annual NJ Section Awards! If you know of an outstanding Engineer you'd like to nominate for this year's Section Awards, please contact President Ken Clausen, PE at (973) 623-2999 or email at [kclausen@kseng.com](mailto:kclausen@kseng.com). **Nominations are due Feb 15<sup>th</sup>!**

The **Annual North Jersey Branch Awards Committee** will be soliciting nominations in the March 2007 Newsletter! Stay tuned for more information next month!



## NORTH JERSEY BRANCH TECHNICAL GROUPS

Join one of these groups and get involved with others in your field of interest. For more information, contact **Lamis Malak, P.E.** at [malak@turnpike.state.nj.us](mailto:malak@turnpike.state.nj.us) or any of the individuals listed below:

### STRUCTURAL GROUP

Arjuna Ranasinghe – 973-776-8621  
[apranasinghe@mbakercorp.com](mailto:apranasinghe@mbakercorp.com)

### TRANSPORTATION GROUP

Mittal Patel - 908-598-2600  
[mpatel@bemsys.com](mailto:mpatel@bemsys.com)

### WATER RESOURCES GROUP

Ramesh Rajagopal 908-755-0040  
[rrojagopal@Gfnet.com](mailto:rrojagopal@Gfnet.com)

### ENVIRONMENTAL GROUP

Jim Heeren - 973-739-9400  
[jheeren@dewberry.com](mailto:jheeren@dewberry.com)

### PROFESSIONAL ISSUES GROUP

Anthony Pecci – 973-338-9100  
[apecci@dewberry.com](mailto:apecci@dewberry.com)

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and  
David Lim – 973-244-5995  
[dlim@stressteel.com](mailto:dlim@stressteel.com)



**James D. Heeren, PE**

**Environmental Group  
Chair**

Jim Heeren is a Senior Environmental Engineer with Dewberry in Parsippany, NJ. A Professional Engineer in New Jersey, he has an MS degree in Environmental Engineering and a BS degree in Civil Engineering, both from the New Jersey Institute of Technology.

Mr. Heeren is experienced with site investigations, remedial designs, environmental planning, Environmental Management System (EMS) development, regulatory compliance, auditing, litigation support and value engineering. His EMS experience includes development, implementation, and assessment of corporate EMS programs and procedures and Life Cycle Assessment and Evaluation of Greenhouse Gas Emissions. Mr. Heeren's field experience includes supervision of soil borings, groundwater monitoring well installation, UST removals, and construction inspection in addition to sampling of soil, groundwater, surface water, wastewater, and air. He has managed major projects ranging from landfill redevelopment to National Environmental Policy Act (NEPA) Environmental Impact Statements.

Mr. Heeren is the author of numerous papers and presentations on Life Cycle Assessment and Environmental Management as well as brownfields redevelopment and sustainable reuse of contaminated properties. Mr. Heeren resides in the Township of Rockaway and sits on the Township's Board of Adjustment.

## George Alexandridis Makes the Annual ASCE/ASHE Dinner Presentation a Success!

Mr. Alexandridis helped members of the ASCE and ASHE understand the capital program for the Delaware Toll Commission!

Pictured (left to right): Thomas Ott, PE, George Alexandridis, PE, and Robert Nash, PE



## ASCE Members! We Need Your Help!

Every year the Transportation and Structure Technical Group host a half day seminar on current and relevant topics. They've been a smashing success and each year the attendees gets larger.

Preparing for these events can be tough for the members of these groups.

The short of it is, they need a hand.

If you:


1. Help finding speakers
2. Suggest topics
3. Lending a hand preparing presentation binders
4. Help setting up during the day of the event
5. help loading and carrying materials

Add more text from the ASCE Members Help.

## Vincent Mazzei Makes the Joint Water Resources & Environmental Dinner a Success!

With over 110 people in attendance at this presentation, Mr. Mazzei help explain the new NJDEP Stream Encroachment Regulations! Thank you!

Pictured (left to right): Ramesh Rajagopal, PE, Vincent Mazzei, PE, and James Heeren, PE



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# ENGINEERS WEEK 2007

This year Engineers Week will be February 18-24 and this year we need your help more than ever. In past we have utilized the Liberty Science Center in Jersey City, NJ as our home for Engineers Week festivities. Unfortunately due to construction the Liberty Science Center will be closed and unable to accommodate us this year. Therefore the **New Jersey Section of the American Society of Civil Engineers** and other engineering organizations including the **New Jersey Society of Professional Engineers** and the **National Society of Black Engineers Alumni Extension** are asking that members and volunteers from past years give a hand and help spread the word about engineering and the sciences by selecting a school or class in your area. We know this may seem like a tremendous task but it's easier than you think. All we ask is that you **FIRST** reach out to a school or board of education in your area and let them know that you are interested in doing a small presentation for Engineers Week. **SECOND** Once you have a location we ask you to contact a representative from one of ASCE's three New Jersey branches (North, Central, and South) depending on your location and request they let other members know about the details of your planned visit. **THIRD** Visit [www.eweek.org](http://www.eweek.org), [www.zoom.org](http://www.zoom.org) or <http://www.engineeringedu.com/store/> to find supplies or ideas for experiments during your class visit or if you would like just prepare a short presentation about what engineers do and how engineers affect our everyday lives. **FOURTH** bring a camera and send the pictures to us so that we can show how engineers in New Jersey spread the word about the engineering profession.

To make things easier we are going to ask that you team up with past volunteers to best utilize our resources. Year after year we have continued to get high-quality volunteers to come and assist in E-Week festivities and we expect this year to be no different. Although the Liberty Science Center permanent facility is undergoing major renovations, they have expressed excitement in working with us next year so make sure you spread the word that Engineers Week 2008 will be at the new and improved **Liberty Science Center** and it will be bigger and better than ever.

**WHEN:** February 18-24, 2007

**WHERE:** At a Location Near You

**WHY:** To celebrate the sciences and engineering in a positive learning environment.  
To pay tribute to engineers and inventors who have made advances in engineering and science - contributions that improve our everyday lives.

**ALERT:** Volunteers use the following contact info to find an ASCE representative in your area

**NORTH JERSEY**

Chris Coke  
973.413.1776  
chris.coke@rccdesign.com

**CENTRAL JERSEY**

Andrés Roda  
732.888.7700 x3075  
Andres.roda@fpaengineers.com

**SOUTH JERSEY**

Jonathan Greenberg  
856.795.9595  
jonathan\_greenberg@rve.com

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**UPCOMING EVENTS**

**March 2007:** STG Seminar – TBD

**April 2007:** TTG Seminar – TBD

**May 2007:** North Branch Awards Dinner