

**OCTOBER 2002**

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2002 / 2003**

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**American Society  
Of Civil Engineers**

# North Jersey Branch Newsletter

**2002 PROFESSIONAL ISSUES GROUP DINNER SEMINAR:**

**UNDERGROUND RECOVERY ENGINEERING**

**AT THE WTC SITE**

In September of 2001, the Port Authority and the New York City Department of Design & Construction (DDC) began working together on the recovery, demolition and debris removal operation at the WTC site. Peter Rinaldi was assigned as the Engineering Program Manager, and will present the account of the extensive operation that was completed well ahead of schedule. Mr. Rinaldi was responsible for directing, managing a rapidly progressing operation that started from well above street level to the base of the site approximately 70 feet below grade. This major engineering effort included developing and implementing a strategy and program for monitoring and stabilizing the 70-foot deep slurry wall that had been compromised by the collapse of the towers. The team also inspected the underground collapsed areas throughout the site, mapping stable and unstable areas that would aid in the demolition and debris removal operation. Mr. Rinaldi worked closely with contractors and fire and police personnel to ensure that this total operation was performed safely and that men and equipment were not operating in unsafe areas. The operation was performed 24 hours a day, 7 days a week, often requiring immediate engineering direction and decisions. Along with others, Peter's efforts helped to complete the below-grade operation ahead of schedule with an exemplary site safety record.

**SPEAKER:**

**Mr. Peter Rinaldi, P.E. - Engineering Program Manager for Ground Zero, Port Authority of NY & NJ**

**DATE: Thursday, October 24, 2002**

**TIME: Reception begins at 5:30 PM, Dinner & Presentation to follow.**

**RSVP To:**

Paul Emilius  
973-697-2122  
pemiliusjr@geodcorp.com

**RESERVE BY  
THURSDAY, OCTOBER  
17TH!!**

**LOCATION:**

The Radisson Hotel  
Route 46 East  
Fairfield, NJ  
(973) 227-9200

**COST:**

Members: \$45  
Non-Members: \$45  
Students: \$20

Checks should be payable to "ASCE – North Jersey Branch"



## PRESIDENT'S ADDRESS

Well our September dinner seminar was a huge success thanks to our well renowned speaker, Professor O'Neill from University of Houston. Over 90 guests attended the event at the Newark Club.

We've received a number of requests for more information on the recommended design factors and handouts describing the results of his studies. Prof. O'Neill anticipates that his studies will be published early next year and the full study will be available to the industry then. Many thanks go to Prof. Jay Meegoda of NJIT for organizing the technical program and to Converse Consultants for being our annual sponsor for the Geotechnical Seminars. Jay has announced that this is his last year as the Geotechnical Committee Chairperson, but he promises to still be active and support his successor.



ASCE's next big event is the annual conference to be held in Washington D.C. from November 3 - 7. The conference caps off the 150<sup>th</sup> Anniversary year with a bang. Presentations will be given by noted luminaries such as U.S. Secretary of Transportation Norman Mineta, Homeland Security Director Tom Ridge, FHA's Mary E. Peters, and Frank Lombardi from the Port Authority of NY/NJ. The 1<sup>st</sup> Annual Congress on Infrastructure Security for the Built Environment will convene, open to all attendees. And in case you missed the "Me, Myself & Infrastructure" exhibit when it was in NYC, you can catch a private viewing at the National Building Museum. For more information about the conference, go to [www.asce.org/conferences/annual02/](http://www.asce.org/conferences/annual02/). I recommend attending and taking advantage of the exciting Washington DC venue.

Our next dinner seminar (see front page) will be held at our "west Jersey" location at the Fairfield Radisson. As part of the evening's agenda we plan to acknowledge members who have advanced to Life Member status. This is an honor reserved for individuals who have made a long term contribution and commitment to the ASCE and the profession. This year 16 North Jersey members became Life Members, including last year's recipient of the North Jersey Engineer of the Year Award, Mr. Paul Wood. So join us on October 24<sup>th</sup> for a great program and an enjoyable evening of networking.

*Lita Sheth*

**MEMBERS ON THE MOVE.....**This month's newsletter introduces a new column dedicated to the comings and goings of some of our Branch Members. Each month we will highlight the promotions, relocations and employment changes of our colleagues. If you or someone you know is a member of the North Jersey Branch that has recently made a change or news that we should know about, please forward the information to [gmiddleton@tishman.com](mailto:gmiddleton@tishman.com) so that we can let our membership know about it.

**Ali Vaezi, P.E.** of Dewberry-Goodkind, Inc. has been promoted to Assistant Branch Manager of that firm's Rutherford, NJ office. Ali is a former Branch President and current serves as its Chair of Technical Committees, and a Director of the NJ Section.

**Gary Matz, P.E.** has recently accepted a position with CTE Engineers as a Project Manager in that firm's New York City office. Gary is a long time member of the Branch's Transportation Technical Group. He can be reached at [Gary.Matz@2AveSubway.com](mailto:Gary.Matz@2AveSubway.com)

**Michael DeSena**, a Project Engineer with Vollmer Associates located in Rochelle Park, has accepted an adjunct teaching position at Fairleigh Dickinson University in Teaneck, NJ. Mike will be lecturing students in the School of

Engineering and Engineering Technology in the Construction Cost Estimating.

**AJ Nayee**, a Supervising Engineer at NJ Transit, has been commissioned as an Ensign in the US Naval Reserves and stationed at Lakehurst Naval Air Station. In his capacity, AJ will be responsible for appropriating the resources for major capital projects. AJ currently serves as the Chairperson of the Construction Technical Group and is a former Director of the NJ Section.

After a long and distinguished career in teaching at the New Jersey Institute of Technology, **Professor Edward Dauenheimer** has recently retired from the institution to pursue other interests. Ed is a long time member of the North Jersey Branch Board and has served in many leadership capacities. His contributions to the Society as our educational liaison will be greatly missed. Good luck Ed!

**Gareth Middleton, P.E.**, a Project Manager for Tishman Construction Corporation of NJ has accepted an adjunct teaching position at Fairleigh Dickinson University in Teaneck, NJ. Gareth will be lecturing students in the School of Engineering and Engineering Technology in Project Management & Controls.

**NORTH JERSEY TECHNICAL GROUPS**

Join Us! The Technical Groups deserve all the credit for putting together the technical seminars that happen just about every month. 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 contact any of the individuals listed below:

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**9<sup>TH</sup> ANNUAL SOFTBALL TOURNAMENT**



*The American team celebrates their triumph in the 2002 Softball Tournament.*

Saturday, September 14<sup>th</sup> marked the 9<sup>th</sup> annual ASCE Softball Tournament, held in Brookdale Park, in Bloomfield, NJ. Twelve teams participated on what turned out to be a great day for softball. Each team played three qualifying games, vying for one of four spots to move on to the playoffs. Louis Berger, Parsons Brinkerhoff (Princeton), Amercom, and Langan advanced, with PB beating Louis Berger and Amercom beating PB in the semifinal round. In the final, Amercom successfully defended their 2001 title by defeating PB. Our congratulations go out to all of the teams that competed in this year's event and look forward to seeing everyone back next year!

- |  |   |
|--|---|
| Parsons Brinkerhoff (Princeton)<br>Lichtenstein Engineers<br>Amercom<br>Louis Berger<br>TAMS – Earth Tech<br>Boswell Engineers | Langan Engineering<br>Vollmer Associates<br>Greenman Pederson<br>Dressner Robin<br>Killam Associates<br>CTE Engineers |
|--|---|

If you think your company would be interested in participating in this event next year, keep in mind flyers are sent out around the beginning of July. Contact Scott Lubarsky at that time for information. ([Scott.Lubarsky@EarthTech.com](mailto:Scott.Lubarsky@EarthTech.com))

The Branch wishes to thank Scott Lubarsky and the Younger Member Group for their tireless efforts in coordinating this year's tournament.

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**A MESSAGE TO EMPLOYERS**

**Is your firm or company seeking qualified candidates to fill valuable positions in today's demanding market?**

The **2002-2003 North Jersey Branch Newsletter** is the perfect medium to advertise your current openings. Our circulation tops 800 subscriptions in the northern New Jersey region. In addition, our publication is posted on the New Jersey Section website where it will be made available to countless additional readers.

The cost for this opportunity is only \$75 per issue for one-sixth of a page (FYI: this section occupies about one-fourth of a page). You may list as many advertisements as can fit using no less than an eight point Arial font. Our newsletter is published each month from September to June.

Please contact our Newsletter Editor, Gareth Middleton @ (973) 643-4007 or [gmiddleton@tishman.com](mailto:gmiddleton@tishman.com) in order to obtain further information.



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**CONTINUING EDUCATION**

The Cooper Union for the Advancement of Science and Art is very pleased to be the home for Carl Selinger's seminar, **Stuff You Didn't Learn in Engineering School.**

Carl Selinger has offered this unique one-day seminar to over 1,000 young engineers who have started their careers with excellent technical skills but are also in need of "soft" skills to be more effective at work and happier persons. The seminar teaches practical skills that can be applied immediately in an engineer's work and personal life. This other set of skills is necessary for setting priorities, making decisions, participating in or leading teams, and running meetings. This seminar helps participants with getting feedback, improving writing and speaking, dealing with stress, and understanding colleagues (including the boss!) Some attendee's reactions have been:

*"I think it's absolutely necessary to teach young engineers the stuff that you are teaching. And you're doing it great. I can really recommend "Stuff" with my whole heart."*

*"Session outlined soft skills needed on the job AND how to improve them. I now have a better idea of what I can do to improve these skills."*

Carl Selinger is a consultant in transportation and aviation after a thirty-year career with the Port Authority of New York and New Jersey. He is adjunct professor that The Cooper Union and SUNY Maritime College, and holds civil and transportation engineering degrees from The Cooper Union, Yale University, and Polytechnic University.

The cost for the seminar, which will be held at The Cooper Union on several dates this fall, is \$225. One of the seminars is divided into two afternoon sessions, instead of a full day.

- P101-1 1 session, Friday, October 18, 2002 10:00 am-5:00 pm
- P101-2 1 session, Saturday, December 7, 2002 10:00 am-5:00 pm
- P101-3 2 sessions Thursdays, October 24 and 31 2002, 2:00-5:00 pm

To register, call 212-353-4195 (Visa and MasterCard accepted) or visit their website: [www.cooper.edu/ce](http://www.cooper.edu/ce)

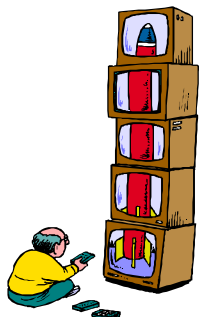


**ATTENTION ALL RECENTLY GRADUATED AND YOUNGER ENGINEERS**

The Younger Member Group wants you. Anyone interested in holding a board position there are a few openings. This is a great way to get your foot in the door with ASCE. It takes less of your free time than you think, and there are some great opportunities to have a good time. To learn more please contact: [Scott.Lubarsky@EarthTech.com](mailto:Scott.Lubarsky@EarthTech.com)

**Keep an eye out for YMG events later this fall...We look forward to hearing from you!**





## GARETH'S PICKS

They're back and better than ever! Post the list by the TV, set your VCR and enjoy – there are some good late night and daytime programs in this month's listing. Programs are listed by channel.

### The History Channel

#### **The City Beneath Our Feet**

Beneath every modern city, hidden by manhole covers, drains, and ventilation grates, lay a labyrinth of tunnels, wires, conduits, and pipes. Go underground with subterranean workers or "Sandhogs" as they like to be called, and see how they build and maintain the city beneath the street.

**Saturday, October 12 02:00 AM - 03:00 AM**

#### **Cranes**

One of the most useful machines ever created, the crane is a simple but important combination of the pulley and the lever. Though cranes have been helping us build civilization from at least the time of the Egyptian pyramids, the modern steel-framed construction cranes are a relatively recent development. Put on your work boots as we ride through the history of cranes from ancient days to skyscraper construction sites, ocean-freighter docks, and the International Space Station.

**Wednesday, October 09 02:00 AM - 03:00 AM**

#### **More Earthmovers**

Join us for a second look at the big earth-moving machines used to tackle the most challenging jobs on, under, and off Earth! We'll ride on specialized behemoth dump trucks, delve below sea level to view dredging equipment, and leave the planet altogether to explore earth-moving equipment in space.

**Thursday, October 10, 2:00 AM - 03:00 AM**

#### **Concrete**

Invented by the ancient Romans, concrete is a relatively simple formula that changed the world. Concrete has been used to divide an entire country, as in the Berlin Wall, and to unite nations, as in the Chunnel. We'll review the history of this building block of civilization and look at modern applications.

**Friday, October 11 02:00 AM - 03:00 AM**

#### **Quarries**

Dynamite explodes hills to bits, drills divide sheer stone walls, 400,000-pound blocks are pulled from pits by giant cranes, and men work around the clock to wrest rock out of the earth. Not diamonds or gold...rock, the raw material of civilization! Without rock, modern society wouldn't exist. Roads, sewers, dams, bridges, buildings, paint; glue, make-up, antacids, and even chewing gum need crushed stone. From ancient days to the present, we explore the evolution of quarrying techniques.

**Thursday, October 10 01:00 PM - 02:00 PM**

#### **Teton Dam Break**

Though American dam builders have refined their skills, attempting to harness the awesome power of water will always prove hazardous. We examine the largest U.S. dam ever to give way. On June 5, 1976, the 305-foot-high Teton Dam burst and 11 lives were lost. (Half-hour version)

**Thursday, October 17 10:30 AM - 11:00 AM**

#### **Grand Coulee Dam**

One of the world's largest concrete dams and largest concrete structures lies on the Columbia River in the State of Washington. Built in 1931, the Grand Coulee Dam is also one of the largest hydroelectric power plants. We'll explore this technological wonder.

**Thursday, October 17 01:00 PM - 02:00 PM**

#### **Modern Marvels: Then and Now – Tunnels**

There is no more potent demonstration of man's resolve than the design and construction of tunnels--avenues that slice through a conspiracy of elements in the single-minded determination to connect two points. Whether underwater, blasted through solid rock, or negotiating the shifting strata of earth's unstable crust, we explore the design and engineering of famous tunnels...and the motivation behind them.

**Saturday, October 19 05:00 PM - 06:00 PM**

#### **Modern Marvels: Then and Now - The Chunnel**

The job of joining Britain and France via a tunnel under the English Channel was a challenge. Geologists tracked the only safe route with satellite technology, and French and British teams drilled towards each other using two of the largest Tunnel Boring Machines ever made. We'll explore the greatest underwater land-link of all time.

**Saturday, October 19 06:00 PM - 07:00 PM**

### The Discovery Channel

#### **Parthenon: Design and Architecture**

Learn about the building techniques of the ancient Greeks, from the quarrying of huge blocks of marble in the mountains surrounding Athens to the intricate carvings of magnificent sculptures that once adorned the Parthenon.

**Oct 8 2002 - 9:00 AM**

#### **Beavers: Dam It All**

No animal creates its own habitat and changes the environment as much as the beaver. This engineering marvel employs sophisticated building techniques to create underwater tunnels, "carpeted" living chambers and intricate storage space.

**Oct 22 2002 - 6:00 PM & Oct 26 2002 - 9:00 AM**

#### **Deadly Crossings: American Intersections**

Of the 600 million vehicles worldwide, half are in the United States. These cars, combined with driver aggression, road design, and human error have collided to create deadly intersections. Traffic engineers reveal some lethal design flaws.

**Oct 27 2002 - 4:00 PM, 8:00 PM & 11:00 PM**

### The Learning Channel

#### **Sandhogs**

Join host Ice-T as he explores some of the most dangerous, difficult and challenging jobs in America including tunnel workers, rodeo bull fighters and hazmat workers.

**Oct 9 2002 - 1:00 AM & 10:00 PM; Oct 13 2002 - 3:00 PM**

#### **Cutters & Crushers**

As man advances and grows he must be able to tear down the old and make way for the new. Monster crushers and cutters allow man to do both. By recycling the old and harvesting the new, learn how crushers and cutters are on the edge of ecological reform.

**Oct 10 2002 - 8:00 PM & 11:00 PM; Oct 13 2002 - 4:00 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, all so large it is visible from outer space.

**Oct 24 2002 - 8:00 & 11:00 PM; Oct 27 2002 - 4:00 PM**

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North Jersey Branch

Gita Sheth, P.E.  
c/o Booz Allen Hamilton, Inc.  
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Newark, NJ 07102



**CONSTRUCTION GROUP  
FIELD TRIP  
ANNOUNCEMENT**

**What:** Tour the construction of new RT. 7 Lift Bridge over the Passaic River between Belleville and North Arlington.

**When:** Saturday, October 12, 2002 @ 9:00 AM.

**How:** Contact the Construction Technical Group c/o Mr. Carlos Meneses to make reservations. He can be reached @ (201)-522-2264 or CMENESES@HNTB.com

**PLEASE NOTE THAT  
RESERVATIONS ARE  
ABSOLUTELY REQUIRED.  
ATTENDEES MUST WEAR WORK  
SHOES AND BRING HARDHATS,  
SAFETY VEST AND PHOTO  
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