

NOVEMBER 2002

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2002 / 2003**

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**American Society
Of Civil Engineers**

North Jersey Branch Newsletter

2002 TRANSPORTATION TECHNICAL GROUP FIELD TRIP:

BERGEN TUNNEL REHABILITATION PROJECT



The Bergen Tunnel tubes, which provide access to Hoboken Terminal for all seven North Jersey Rail Lines, were built circa 1877 and 1908 and are currently in need of significant repair. This project was developed to extend the structure's useful life, upgrade life safety concerns, and improve poor drainage and lighting.

Come join the Transportation Technical Group for our annual fall field trip as we visit the construction underway to rehabilitate NJ Transit's aging Bergen Tunnel. With an aggressive around the clock schedule the Bergen Tunnel's north tube will be updated to 21st century standards with these additions: new electrical, emergency, signal and ventilation systems, a concrete liner to replace the original brick liner, new drainage, and a concrete floor with new tracks to allow for a smoother ride. Mr. Charles A. Maliszewski, P.E. will start the field trip with a presentation to overview the project, then follow with a tour of the tunnel where we can see first hand what's being done to address both age related and safety issues.

Contact the TTG today to reserve your spot for this exciting field trip - space is limited. Also, if you plan on attending, please wear protective boots, hard hat and a safety vest. Coffee and donuts will be provided.

SPEAKER: Mr. Charles A. Maliszewski, P.E. - Project Manager for NJ Transit

DATE: Saturday, November 16, 2002

TIME: 9:00 AM to 12:00 PM

RSVP by 11/14/02: Scott Derector at sderector@gfnet.com or AJ Nayee at anayee@njtransit.com. Directions to follow via email.

For more info, check out this link:

<http://212.87.82.145/tunnel/archive/2002/march/0302commuter.pdf>



PRESIDENT'S ADDRESS

Greetings all. At our last dinner seminar, we were privileged to present three North Jersey colleagues with their Life Members Certificate of Achievement: Mr. Sashi Chokhavatia, Mr. Henry Johnsen, and Mr. Paul Wood. During the presentation, they entertained us with their thoughts and anecdotes on being an engineer for the last... well, lets just say for many years! It turned out to be a bit of a reunion evening, as many who attended, including the Life Members, ran into old friends and co-workers from the past. This was in part due to the crowd brought out by our speaker, Mr. Peter Rinaldi of the Port Authority of NY/NJ. Mr. Rinaldi gave a great presentation of the underground perils that occurred due to the rapidly changing conditions at WTC site. His tales of how quickly problems were solved, decisions were made and solutions were implemented made the crowd appreciate the engineering talents of the various teams that worked the recovery operations for over a year. Many thanks go to Peter for his time and energy on sharing such an interesting and informative account.

Next month, I plan to report back from the ASCE conference in Washington DC. It was a great relief to the conference organizers and the attendees when the snipers were finally caught last month. Now all can enjoy the many educational and social events on schedule for the 6-day conference, many of which revolve around the 150th Anniversary of ASCE, which is officially on November 5, 2002.

Until then, I wish everyone a safe and healthy Thanksgiving holiday.

**NORTH JERSEY BRANCH
2002
CELEBRATING 40 YEARS OF
EXCELLENCE AND SERVICE**

MEMBERS ON THE MOVE....

Each month's newsletter includes this column dedicated to the comings and goings of some of our Branch Members. We highlight the achievements, promotions, relocations and employment changes of our colleagues. If you, or someone you know, are a member of the North Jersey Branch and have recently made a change or have news that appropriate for this column, please forward the information to gmiddleton@tishman.com so that we can let our membership know about it.

Neil Kollios, P.E., a member of the Transportation Technical Group, has returned to the New Jersey/New York area after a 4 year project assignment on the west coast. He is currently working for the New York office of Parsons Brinckerhoff. He can be reached at Parsons Brinckerhoff, One Penn Plaza, New York, NY 10119, (212) 631-3854 or kollios@pbworld.com.

Mark Schiffman, P.E., a member of the Construction Technical Group is currently serving as President of the New York State Society of Professional Engineers, New York Chapter. Mark is employed by HAKS Engineers, P.C. in Newark where is he Senior Vice President and manager of New Jersey operations for

the firm. He can be reached at (973) 643-8988 or mark_schiffman@haks.net.

We welcome **Jesper Glysing-Jensen, P.E.**, Vice President at Echo Construction, Inc. to the North Jersey Branch. He has over thirteen years of experience in structural engineering and construction, including project management and structural design. Jesper is currently a member of the Fritz Engineering Research Society and serves as the chair of SEAoNY's Membership Committee and is the Membership Liaison. He can be reached at Echo Construction, Inc. 11 Tall Timbers Drive, Princeton, NJ 08540 (201) 217-9102 or jesper.glysing@seaony.org.

H. Sam Ezeldin, P.E., and Environmental Technical Group Chairperson, has recently been named the Director of Engineering Services for Tully Environmental, Inc. in New York, a General Contractor providing environmental remediation and construction management for several agencies in New York City. Tully was recently involved at the ground-zero national cleanup project. Sam can be reached at (718) 446-7000 x201 or SEzeldin@TullyEnvironmental.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 OR those listed below:

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NORTH JERSEY BRANCH ATTENDS NETWORKING FAIR

The North Jersey Branch was represented at a Networking Fair held at Stevens Institute in Hoboken, NJ. The fair was designed to introduce students to the professional organizations that are associated with their college course of study or major. The Branch provided interested students with valuable information on Student Chapter benefits, ASCE benefits, employment opportunities and college scholarship applications. The Branch came away with a list of interested students, several resumes, and a copy of the 2002/3 Resume Book compiled by the Office of Career Development. Anyone interested in obtaining a copy of the book can contact Mike Murno at (212) 944-2000 x6105 or mmurno@ekmail.com or Eugenia Roman at eroman@hardesty-hanover.com.

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Branch Members braved the elements to climb high above the Passaic River.

CTG FALL FIELD TRIP REPORT

On Saturday, October 12, 2002, a contingent of Branch Members fought the wind and rain while visiting the nearly completed NJDOT Rt. 7 Lift Bridge over the Passaic River. The group listened to both the agency and private sector managers described the in and outs of building a modern movable bridge. The presentation was followed by a thrilling tour of the structure which included a visit to the machine houses located 100' above the Passaic River. The morning came to a close with a well deserved hot lunch next door at the Arlington Diner courtesy of M.J. Paquet, the General Contractor for the project.

- The substructure consists of 2 integral abutments supported by steel H-piles and 2 reinforced concrete piers supported by 4ft dia. drilled shafts. The drilled shafts have a design capacity of 450T and are socketed 7ft deep in rock.
- The superstructure has (2) 81ft approach spans, (2) 13ft tower spans and (1) 124 ft lift span. The approaches are steel plate girders supporting a reinforced concrete deck. The lift span is a floor beam & stringer system supported by box girders. The lift span deck is a steel grating half filled with silica fume concrete with an overfill.
- Each tower has 8 columns, 4 on either side of the roadway. These columns support the machinery houses that contain the majority of the mechanical components. The lifting weight of the bridge is approximately 1.2 million pounds.

The Construction Technical Group wishes to thank the following people for making this event a success:

Carl Kneidlinger & Fred Kashani – NJDOT
Andy Soccodato – Hatch Mott MacDonald
Cortney Hann & Paul Jakubicki – Hardesty & Hanover
John Perez – M.J. Paquet



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EMPLOYMENT POSTING

Chief Engineer (Civil) The N.J. Meadowlands Commission (N.J.M.C.) is seeking highly qualified, experienced and motivated candidates for the position of Chief Engineer. Must be proficient in land use, site design/development, hydrology and transportation.

Qualified persons must possess: Bachelor's degree (Masters degree and P.P. a plus); N.J.P.E. license (for a minimum of 10 years); related job experience of 14 years or more; proficiency in N.J. land use regulations; exemplary written and oral communication skills; and a demonstrated record of successful leadership and management.

The N.J.M.C. is a state agency located in Northern N.J. and offers a superior benefits package (including PERS pension) and competitive salary.

Send resume, with salary requirements, to New Jersey Meadowlands Commission, One DeKorte Park Plaza, Lyndhurst, NJ 07071 Attn. Beverly Schmidt (or fax to 201-460-1722).

Is your firm or company seeking qualified candidates to fill valuable positions in today's demanding market? Please contact our Newsletter Editor, Gareth Middleton @ (973) 643-4007 or gmiddleton@tishman.com to obtain further information about advertising opportunities.



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CONTINUING EDUCATION

New Jersey Institute of Technology - Civil and Environmental Engineering Department

Spring 2003 Graduate Course Offerings

Course	Course Name	Day	Instructor
CE 602	Geographic Information Systems	Mon	Bagheri
CE 603	Introduction to Urban Transportation Planning	Fri	Liu
CE 611	Project Planning and Control	Thu	Lyssikatos
CE 616	Construction Cost Estimating	Mon	Staff
CE 621	Hydrology	Tue	Ding
CE 625	Public Transportation Operations and Technology	Tue	Chien
CE 631	Advanced Reinforced Concrete Design	Thu	Hsu
CE 634	Structural Dynamics	Wed	Saadeghvaziri
CE 637	Short Span Bridge Design	Tue	Bhoraniya
CE 643	Advanced Foundation Engineering	Wed	Basim
CE 653	Traffic Safety	Mon	Iqbal
CE 739	Structural Optimization	Mon	Spillers
CE 752	Traffic Control	Thu	Daniel
CE 765	Multi-modal Freight Transportation Systems Analysis	Wed	Spasovic
EnE 661	Environmental Microbiology	Tue	Mittman
EnE 662	Site Remediation	Wed	Hornsby
EnE 664	Physical and Chemical Treatment	Mon	Axe
EnE 665	Biological Treatment	Thu	Hsieh

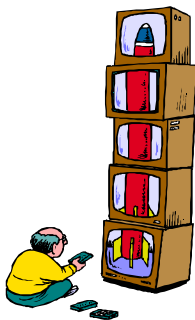
All courses are offered in the evening from 6:00 to 9:05 p.m.

Registration for non-matriculated students begins November 12, 2002. Non-NJIT students should contact Admissions at 973-596-3300 for registration information.

ATTENTION: STEVENS INSTITUTE IS LOOKING FOR CO-OP COMPANIES



Stevens Institute of Technology in Hoboken, NJ is looking for civil engineering companies to become Co-Op Employers. The Co-Op program is a program designed to integrate several semesters of challenging work experience into a student's college curriculum. If you think your company is interested in becoming part of this program, please contact Lucy Boccassini, Coordinator of Cooperative Education and Intern Projects. She can be reached at lbocass@stevens-tech.edu or 201-216-5301.



GARETH'S PICKS

Just in case you don't already know enough useless engineering trivia, get ready more. This month we'll run the gamut from buildings to tunnels and to airports. Don't forget to change the clocks on those VCR's, because you'll need them for some of these.

The Learning Channel

Engineering Triumphs

Learn how yesterday's ingenuity paved the way for astonishing engineering feats including the Toronto Skydome, airships, the Oresund Fixed Link, Petronas Towers, Aquarius, Itaipu Dam, Cern, Arizona's Biosphere, Akashi Kaikyo Bridge and Station Alpha.
NOV 7 2002 @ 8:00 & 11:00 PM, NOV 10 2002 @ 4:00 PM

Wheels of Steel

Examine cutting edge train technology around the world including a Euro star train for use in the UK Channel Tunnel, the Acela Express in the U.S., and the Bullet Train in Japan, the TGV in France, and the Maglev system where the train levitates on magnets.
NOV 14 2002 @ 8:00 & 11:00 PM, NOV 17 2002 @ 4:00 PM

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 seafont and is currently the world leader in shipbuilding.
NOV 21 2002 @ 8:00 & 11:00 PM, NOV 24 2002 @ 4:00 PM

The History Channel

Modern Marvels: Brooklyn Bridge

It was an engineering feat of almost miraculous proportions and a design of spectacular elegance. Rare photographs and behind-the-scenes stories recall the politics, struggles, and tragedies that made possible "the Eighth Wonder of the World".
Saturday, November 09 05:00 PM - 06:00 PM

Modern Marvels: Golden Gate Bridge

More than 50 years after its construction, the Golden Gate remains one of the world's great engineering marvels. It took 25-million man-hours and 80,000 miles of cable to complete. But the cost in human life proved even greater.
Saturday, November 09 06:00 PM - 07:00 PM

The Coliseum

Nothing symbolizes the Roman Empire at its height or Rome in magnificent ruins more than the Colosseum. Built in 70 A.D., it seated 80,000 people, boasted a retractable roof, underground staging devices, marble seating, and lavish decorations. It still serves as the prototype for the modern stadium. The complexity of its construction, the beauty of its architecture, and the functionality of its design made it the perfect place for massive crowds to congregate for the bloody spectacles it contained.
Saturday, November 16 02:00 AM - 03:00 AM

A Day in Their Lives - Empire State Building Ironworker

New York City's Empire State Building was the heroic project of the 1920s construction boom. What was it like to work under the grueling schedule of putting up a story a day, while facing the looming specter of the Great Depression? Follow a day in the life

of John, a skilled ironworker whose job was gunning 500 white hot rivets per shift at dizzying heights. Dr. Carol Willis, director of the Skyscraper Museum, and ironworkers Steve Havemann and Paul Martinez help put that world in perspective.

Tuesday, November 19 09:00 AM - 10:00 AM and 3PM - 4PM

The Great Bridge: 8 Miles of Steel

San Francisco's Oakland Bay Bridge stands as an incredible feat of engineering against the nearly impossible. Once chosen as one of the seven engineering wonders of the modern world, it features a unique double suspension structure in its west end. Join us as we cross this triumph of construction, while we visit its past and look to its future.

Wednesday, November 13 07:00 PM - 08:00 PM

Construction Machines

Feel the earth move under your feet and dig into the fascinating story of earthmoving equipment--from the simple spade to today's powerful steam shovels. Meet legendary giants like John Deere, Jerome Case, and the founders of Caterpillar, who helped forge America's monolithic construction industry. Ride on specialized behemoth dump trucks, delve below sea level to view dredging equipment in this 2-hour special presentation.

Thursday, November 28 02:00 AM - 04:00 AM

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, November 27 07:00 AM - 08:00 AM

History of Tall Buildings

A look up at the symbol of the American Century--the skyscraper, the construction of which is a triumph of engineering and capitalism. Climb to the top of the Empire State Building, Chrysler Building, Sears Tower, and World Trade Center to see how ego, money, and technology joined to build the tallest of man-made structures.

Friday, November 29 08:00 AM - 09:00 AM

The Discovery Channel

Bridges: Reaching Out

From the Brooklyn Bridge to Japan's two-and-a-half-mile suspension bridge that has enough bundled wire to circle the globe seven times, bridges are the superstars of engineering. The people who design, build and maintain them are just as heroic.

NOV 23 2002 @ 9:00 PM & 12:00 AM

Skyscrapers: Going Up

For a century, architects and builders have erected impossibly tall skyscrapers, from the Empire State Building to Kuala Lumpur's new Petronas Towers. But the vertical limit has not yet been met, and behind each skyscraper is an amazing tale.

NOV 23 2002 @ 10:00 PM & 1:00 AM

Building 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.

NOV 30 2002 @ 9:00 PM

Tunnels: Digging In

Even with modern, massive pieces of specially designed machinery, building tunnels is a risky and awe-inspiring feat of engineering. Explore the techniques, danger and design involved in the construction of six marvelous tunnels.

NOV 23 2002 @ 8:00 & 11:00 PM

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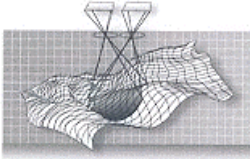
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**American Society of Civil Engineers
North Jersey Branch**

Gareth Middleton, P.E.
c/o Tishmans Construction Co.



**CONSTRUCTION GROUP
MEETING ANNOUNCEMENT**

What: Guest Speaker Mr. Ronald Parisi, P.E. of CPMI, Inc. discusses the evaluation and analysis of construction claims.

When: Wednesday, November 20, 2002 @ 6:00 PM.

Where: NJ Transit HQ in Newark, NJ

How: Contact the Construction Technical Group c/o Mr. Luigi Zecchin to make reservations. He can be reached @ (201)-797-7400 or lzecchin@pimie.com

**A FIVE DOLLAR DONATION IS
SUGGESTED FOR THIS EVENT
TO COVER COSTS**