

NOVEMBER 2001

**Branch Officers and
Directors for
2001 / 2002**

President

Eugenia Roman
Hardesty & Hanover, LLP
(201) 656-8810
eroman@hardesty-
hanover.com

President Elect

Gita Sheth, PE
Booz | Allen | Hamilton
(973) 456-5056
sheth_gita@bah.com

Vice President

Gareth Middleton, PE
Tishman Construction Corp.
(973) 273-0076
gmiddleton@tishman.com

Secretary

Chris Taylor, PE
Systra Consulting, Inc.
(973) 893-6000
ctaylor@systrausa.com

Treasurer

Dick Mehrman, PE
(201) 634-9261

First Past President

Ali Vaezi, PE
Goodkind & O'Dea, Inc.
(201) 438-6166
avaezi@goodkindinc.com

Second Past President

Mike Murno, PE
Edwards & Kelcey
(212) 619-5300
mmurno@ekmail.com

Director

Paul Emilius, PLS
Geod Corporation
(973) 697-2122
pemiliusjr@geodcorp.com

Director

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



*American Society
of Civil Engineers*

North Jersey Branch Newsletter

NOVEMBER DINNER SEMINAR:

Ground Zero: Experiences of Engineers at the World Trade Center

Join us for a presentation of "first hand" accounts of the ordeal that our colleagues endured. Hear about the critical role of engineers in making urgent and timely decisions on building and passageway stability for rescue operations. ASCE North Jersey Branch member Bryan Juncosa will share his experience as a structural engineer involved in the search and rescue missions at the WTC. Eugenia Roman will give accounts of how the local engineering community came together through organized and tireless efforts to support the rescue efforts of the policemen, firemen and rescue workers. The presentation will offer insight into lessons for engineers, architects and construction professionals from this tragic event. Graphic photos taken at Ground Zero will be used as a visual aid to the discussions.

Presentation By:

Michael Murno, P.E. – Associate Vice President, Edwards & Kelcey
Kevin Sylvester, P.E. – Engineer with Port Authority of NY & NJ
Bryan Juncosa, P.E. – Structural Specialist with New Jersey Task Force-1 Urban Search & Rescue Team
Eugenia Roman – President, North Jersey Branch of ASCE

DATE / TIME / LOCATION

Thursday, November 15, 2001

The Radisson, Route 46 Eastbound, Fairfield, NJ (**Note new location !!**)

5:30 Cocktails - Dinner and Presentation to follow.

RSVP by November 10 - Paul Emilius at 973-697-2122 or pemiliusjr@geodcorp.com

Cost: \$40 or \$15 for students

In this Issue...

- Call for Nominations: Top 10 New Jersey Civil Engineering Projects. For presentation at the 150th Anniversary Gala Event! **See Insert.**
- Highlights from the Field Trip to the Route 21 Rehabilitation Project
- Softball Tournament Results
- NJIT Spring 2002 Graduate Course Listing
- Gareth's Picks of interesting television programming

PRESIDENT'S ADDRESS

In the days and weeks that have followed the September 11th attacks, there are countless accounts of people just wishing that they could do something to help repair the permanent scar that has been left on our country. Some people feel completely helpless because they do not know where to direct their well-intentioned efforts. This sentiment is especially strong here in New Jersey, since many of us had some personal connection with someone who worked in the World Trade Center or in the surrounding area.

I had the very fortunate opportunity to attend the New York City Bridge Conference on October 29-30 in Manhattan. Conan Freud, Deputy Commissioner of the New York City Department of Transportation gave a wonderful presentation and at the end of his session, he made a special effort to encourage the attendees to reach out to their students and colleagues and ask them to consider a career in public service. He himself found it very rewarding to be a significant part of the continuing success of the transportation system in this Metropolitan area.

A "career in public service" can take on many meanings. To some, it may mean working directly for a State or Public agency. To others, it may mean working for a consulting firm that is retained by one of the Agencies. And still to others, it may mean reaching out to the local community and offering assistance to students, civic groups or town committees.

A heightened sense of community involvement has resulted from the September 11th attacks. I encourage all of our members to consider channeling their well-intentioned efforts towards helping your local community, in whatever way you can. Within the local ASCE Branches and Sections, there are several programs that may be of interest.

- Please consider becoming an active part of the **West Point Bridge Contest**. Information on this program can be found in last month's newsletter or by contacting Ed Dauenheimer at dauenheimer@adm.njit.edu or Mary Lang @ mlang@yu-associates.com.
- ASCE National is seeking mentors for the Future City Competition 2002, an engineering competition for 7th and 8th graders. Information for this program can be found at www.futurecity.org or by contacting Dan Zarrilli at dzarrilli@hotmail.com.
- The New Jersey Section is looking for individuals to volunteer some of their valuable time to help

organize and execute the annual **Engineers Week** activities that are traditionally held at the Liberty Science Center in Jersey City. These activities are designed to stimulate young students' interest in science and mathematics. For more information about this program, please contact Aino-Liis Tootsov at atootsov@att.net. Information about Engineers Week can be found at www.eweek.org.

- Please encourage your fellow employees and colleagues to attend the North Jersey Branch's field trips and monthly dinner seminars. These seminars are great networking opportunities and they are always great sources of information that can be useful on future projects.

It is important that we as engineers take an active interest in the continuing success of our profession. In the coming months, it will be the engineers and contractors who will be called upon to collaborate on the changes to building codes, contract specifications and construction details that will make our structures safer. And building safe facilities for our community is at the very root of what it means to be an engineer.

Eugenia Roman

*We'd like to thank our newsletter sponsors,
who are shown throughout this issue....*

Hardesty & Hanover, LLP 
Consulting Engineers

Fixed and Movable Bridges, Highways,
Railways and Special Structures

84 Washington Street, Hoboken, NJ 07030
Tel: 201.433.9408 • Fax: 201.656.9026
New York • Florida • Virginia • Maryland • Michigan

Transportation
Communications
Building Technologies
Commercial Development

**Edwards
AND Kelcey**

Offices Nationwide

299 Madison Avenue, PO Box 1936
Morristown, New Jersey 07962

Voice 973-267-0555 Fax 973-267-3555

www.ekcorp.com

HIGHLIGHTS FROM THE ROUTE 21 FIELD TRIP

Another successful field trip was co-sponsored by the Construction and Transportation Technical Groups of the North Jersey Branch on Saturday, November 3, 2001. More than 20 people, undaunted by the threatening weather, attended the field trip to the Replacement of Route 21 Viaduct project. The Route 21 Viaduct provides a vital highway link between the City of Newark, the Newark International Airport, Route I-78, Routes US 1 & 9, and US 22. The viaduct also carries a heavy traffic volume: in 1992 it carried 73,400 vehicles per day with a relatively high 13% truck traffic. The 2015 Design Year projects volume to exceed 109,000 vehicles per day.

The existing viaduct is structurally deficient and functionally obsolete. The 44-foot existing roadway width on the viaduct provides two-way traffic flow on four-11 foot lanes with no median barrier or shoulders. In addition to being geometrically substandard, it is also overstressed under current loading conditions.

The project currently under construction will replace the existing Route 21 on essentially the same alignment, shifted slightly to the west. Improved access to and from I-78, Newark Airport, and Newark will be provided. New ramps will be constructed at the Route 1&9, Route 22, Interstate 78, and Route 21 interchange. Direct connections will be provided from Route 21 to both McCarter Highway and Broad Street in Newark. In addition, access to the Ironbound section will be improved by an improved Poinier Street connection and by increasing the vertical clearance under Amtrak at Miller Street and Emmet Street.

The estimated construction cost for the Route 21 Viaduct Project is \$250 million and is federally funded. The anticipated completion date is December 2003.



The North Jersey Branch would like to thank Mr. John Corbo and Mr. Bruce Riegel of NJDOT, and Mr. Mike Sidani of Michael Baker for their time and for sharing their invaluable knowledge with us. Their presentations on critical design elements and construction challenges were great, and were an important start prior to going on-site. Thanks also go to Raymond O'Donnell of DMJM+Harris, who led the tour on-site.

For more information, you can visit the project website @ www.route21viaduct.com.

JOINT YOUNGER MEMBER FORUM

On Thursday, December 6, 2001, the Younger Member Groups of the **ASCE** and the Society of American Military Engineers (**SAME**) will be hosting an Executive Forum for Younger Members at the Cornell Club in NYC. This joint dinner meeting will be a unique opportunity to meet with engineering leaders in the New York Metropolitan Area. The format will be a panel discussion on topics relevant to younger engineers.

For more information, contact Rich Cassin at (212)973-3023, or email (PREFERRED) at richard.cassin@dmjmharris.com.



*150th Anniversary
Gala Dinner*

MAY 11, 2002

**Mark your Calendars Now!
Hosted by the New Jersey
Section and Branches**

SOFTBALL TOURNAMENT RESULTS !

Thanks to the following companies who contributed towards the success of the tournament and helped raise \$3,000 for our scholarship fund:

- Amercom
- Boswell Engineering
- CME Associates
- HNTB
- Langan Engineering
- Lichtenstein
- Louis Berger Group, Inc.
- Killam Associates
- Tams Consultants
- Vollmer Associates

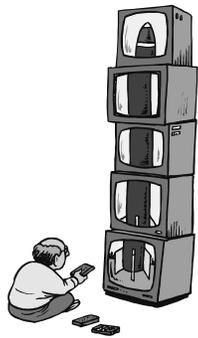
It was a great day for softball as the North Jersey Branch held its 8th annual softball tournament. Games started bright and early and went through to the early evening. Each team played three games, and the top four teams advanced to the playoffs.

Amercom was seeded first and played fourth-seeded TAMS Consultants, while Langan hosted Boswell Engineering in a game between the 2nd and 3rd seeds. Langan beat Boswell, and Amercom rallied late to overcome TAMS to set up a final that would see a new Champion of the tournament (Louis Berger beat Lichtenstein last year in the Finals). Amercom and Langan went back and forth early, but Amercom pulled away as the game went on to win the tournament by a score of 20-11. Congratulations Amercom - not bad for your first year in the tournament!

SPRING 2002 GRADUATE COURSES @ NJIT

The following list of courses is being offered by NJIT's Civil and Environmental Engineering Department. All courses are 3 credits and are offered in the evening from 6 to 9:05 PM. The registration period is from November 9 to December 23. Registration info can be found from @ http://www.njit.edu/Registrar/reg_instr/reginstrsp.html#1

Course	Title	Evening	Instructor
CE 530-102	Applied Finite Elements	Wed.	W. Spillers
CE/TRAN 603-102	Intro to Urban Transportation Planning	Fri.	R. Liu
CE 611-102	Project Planning and Control	Thur.	J. Lyssikatos
CE 616-102	Construction Cost Estimating	Mon.	J. Mortimer
CE 623-102	Ground Water Hydrology	Mon.	P. Chan
CE/TRAN 625-102	Public Transportation Operations and Technology	Thur.	S. Chien
CE 636-102	Stability of Structures	Tue.	C.T.T. Hsu
CE 642-102	Foundation Engineering	Thurs	J. Meegoda
CE 645-102	Rock Mechanics II	Wed.	D. Raghu
CE 647-102	Geotechnical Aspects of Solid Waste	Mon.	R. Khera
CE/TRAN 653-102	Traffic Safety	Mon.	Staff
CE 702-102	Management of Claimsanship	Tue.	O.Milgram
CE/TRAN 752-102	Traffic Control	Tue.	J. Daniel
Mech 630-102	Theory of Elasticity	Mon.	Wecharatana
EnE 661-102	Environmental Microbiology	Tue.	S. Mittman
EnE 662-102	Site Remediation	Wed	M. Hornsby
EnE 665-102	Biological Treatment	Mon.	S. Mukherjee
EnE 671-102	Environmental Impact Analysis	Thur.	R. Dresnack



GARETH'S PICKS

Ready to tune in again? This month's programming features some classic episodes updated to reflect the events of September 11. Other shows cover a wide range of topics, sure to be of interest to many curious minds.

Shows are listed by network.

The History Channel

The World Trade Center

An historical look at the technological engineering of the World Trade Center. The special was completed and the interviews took place before the tragic events of September 11, 2001. Rather than remake the program to reflect the horrors of that day, our program stands as an historical record to the wonder it once was--from the construction of this technological feat to the daily working of its complex system. The program offers some of the last interior footage of the Twin Towers.

Tuesday, November 13 - 9:00 PM

Sunday, November 18 - 3:00 PM

The Empire State Building

The remarkable story of how the landmark skyscraper was constructed during the depths of the Depression. Requiring 10 million bricks and 60,000 tons of steel beams and using a revolutionary technique to hold the steel girders in place--hot rivets--the world's tallest building was completed four months ahead of schedule.

Friday, November 16 - 8:00 PM

The Pentagon

The Pentagon--the name alone conjures up an imposing image of American power. Completed in 1943, this five-sided nerve center for the nation's armed services is the largest office building in the world--yet it takes only seven minutes to walk between any two points in the building because of its unique shape. Walk along its more than 17 miles of corridors with the 24,000 men and women who work here each day. Updated to reflect the September 11, 2001, terrorist attack.

Sunday, November 18 - 6:00 PM

Modern Marvels - The City of Los Angeles

Unruly and eclectic, L.A. is home to an array of engineering and construction marvels that rivals any city in the world. The five marvels profiled give a sense of the breadth and scope of the city's achievements: the new Red Line Subway system that barrels through a mountain range; the freeway system; Los Angeles Coliseum, built in 1923; the billion-dollar Getty Center that houses the family's artwork; and Disneyland, the first theme park.

Wednesday, November 28 10:00 PM

Discovery Channel

Skyscraper at Sea

It took 1,500 people to design, build and transport the world's largest oil rig -- the tallest, heaviest and largest structure ever moved across the earth. Despite years of meticulous planning and preparation, the move is harrowing. **November 24 - 12:00 PM**

Building the Impossible: The Seven Wonders of the Ancient World

Learn the historical background of each of the Seven Wonders of the World using information from ancient sources, modern investigations of the remains and computer animation. Uncover the mysteries of the cities and civilizations to which they belonged.

Wednesday November 21 - 8:00 PM & 12:00 AM

The Learning Channel (TLC)

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.

November 14 - 8:00 PM and 11:00 PM

November 17 - 2:00 PM

Biggest Structures

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

Thanksgiving Day, November 22 - 4:00 PM

Power Lifters

Confront the enormous cranes that reshape the face of the Earth with their massive lifting power. From erecting trophy structures to moving immense loads of cargo, these machines are the muscle that accomplishes otherwise impossible tasks.

November 25, 10:00 PM and 1:00 AM

November 28, 8:00 PM and 11:00 PM



ARCHITECTS • ENGINEERS PLANNERS

- Structures
- Highways
- Airports
- Geotechnical
- Environmental
- Transportation Planning

Offices in Principal Cities

Wayne Plaza I, Suite 400
145 Route 46 West, Wayne, NJ 07470-6830
www.HNTB.com
Phone: (973) 237-1650

