

APRIL 2002

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**American Society
of Civil Engineers**

North Jersey Branch Newsletter

Spring Fever !

There's a lot happening this spring....Technical seminars, a tunneling symposium, short courses, and of course, the 150th Anniversary Gala !!

This month's newsletter is full of flyers and invitations. Take advantage of your ASCE membership and attend an event - come to learn, network with colleagues, or just have fun. Check it out:



**Calendar of Events
April and May 2002**

- ◆ **“Drilled Shafts in Theory and Practice”**
Geotechnical Dinner Seminar in North Jersey
Thursday, April 18th.....Page 3
- ◆ **“Tunneling in Transportation”**
Half-Day Symposium at the Newark Club
Thursday, May 9thPage 4
- ◆ **Invitation to the 150th Anniversary Gala**
Saturday, May 11th - Open to everyone!!
See list of award recipientsPage 5
- ◆ **Short courses** in surveying, stormwater detention & AutoCAD.
At the Center for Technology, Essex Community College
THROUGHOUT APRILPage 6
- ◆ **Half Day Earthquake Engineering Seminar**
At the City College of NY - Thursday, May 14thPage 6

Other Articles in this Issue...

- “Calling all Younger Members!”..... Page 3
- “Like what you see?”..... Page 4
- “Gareth’s Picks” Page 7

PRESIDENT'S ADDRESS

As you may have been aware, the New Jersey Section, along with North, Central and South Jersey Branches, have been preparing to celebrate the 150th Anniversary of the ASCE during 2002. The celebration weekend of May 10th -11th is upon us. Many people have been preparing for over a year for this event. The highlights of this occasion include the **dedication of the New Jersey Turnpike as a New Jersey Civil Engineering Landmark on May 10th** and the **150th Anniversary Gala** at the New Brunswick Hilton on May 11th.

I encourage all of you to join us at the gala where ASCE National President Gerry Schwartz will address the audience. Please consider attending this event as we honor our colleagues for the contributions they have made to the profession. The Top 10 Civil Engineering Projects in New Jersey will also be awarded at the gala. It is sure to be a memorable and momentous evening. (Please see the enclosed invitation for details.)

Best Regards,



Many thanks to our newsletter sponsors, who are shown here and throughout this issue...

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NORTH JERSEY TECHNICAL GROUPS

Join Us! We are always interested in new members. Become a part of one of these groups and network with others having similar interests. For more information, contact Ali Vaezi, Chair of the Technical Committees, at avaezi@goodkindinc.com OR contact the individuals listed below:

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*Attention North Jersey Readers:
 Do you have any interesting news, photos,
 upcoming events, or solicitations ?
 If so, please contact the newsletter editor at
Sheth_Gita@BAH.com*



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**Geotechnical Group of North Jersey Branch proudly announce
their annual Converse -Ward Lecture**

Sponsored by Converse Consultants and the
International Association of Foundation Drilling (ADSC)

DRILLED SHAFTS IN THEORY AND PRACTICE

Dr. Fred H. Kulhawy, P.E., G.E.

This lecture will discuss the use of drilled shaft foundations in civil engineering practice. After brief historical notes, the uses and advantages of drilled shafts will be highlighted. Shaft construction practices will be outlined, noting especially the interaction between design and construction. Then the behavior of drilled shafts under axial compression and uplift loading will be discussed, focusing on modern design equations, the necessary input required for these equations, and the resulting quality of design predictions. Finally, some observations will be made on shaft behavior at working load levels.

About the Speaker: Dr. Fred H. Kulhawy is Professor of Civil/Geotechnical Engineering at Cornell University, Ithaca, NY. His teaching and research focuses on foundations, soil-structure interaction, dams, soil and rock behavior, and Geotechnical computer and reliability applications, and he is the author of over 270 published technical papers and reports. He has lectured widely around the world and has received numerous awards for his work. He also has extensive experience with several consulting firms, and has been a consultant for major projects on six continents, with over 360 assignments completed to date.

Date : Thursday, April 18, 2002

Time: Reception begins at 5:30, Presentation from 6:30 to 9:00PM

Place: Architecture Conference Room in the Second Floor Loft

Building Science Complex, New Jersey Institute of Technology, Newark, NJ

Reserved parking in the NJIT parking deck – mention that you are attending the ASCE North Jersey Branch dinner seminar. For directions, see www.NJIT.edu

Cost: ASCE Members \$40, Visitors \$50, Students \$20 (with valid student ID)

Cost includes complimentary drink ticket and dinner

Checks payable to "ASCE North Jersey Branch"

RSVP: Dr. Jay Meegoda at (973)-596-2464 or Meegoda@NJIT.edu



CALLING ALL YOUNGER MEMBERS !!

The North Jersey Branch is looking for future leaders and volunteers. If you enjoy networking with colleagues, have ideas for social outings or technical events, please consider becoming active in our Younger Member Group. This year YMG activities included a project with Habitat for Humanity, sponsoring interactive booths at the Liberty Science Center during E-week, group study sessions for the FE and PE, and happy hours. Whether you are looking for a leadership role, or would just like to help out and meet new colleagues, please contact Scott Lubarsky, YMG President, who will notify you about future meetings: lubarsky@tamsconsultants.com

The Transportation Technical Group proudly presents

TUNNELING FOR TRANSPORTATION

MAY 9TH, 2002 AT THE
NEWARK CLUB - 11:00AM

While a great deal of the country is investing heavily in light rail systems and highway expansion at the surface, the NYC Metropolitan Area continues its expansion of transportation systems *below ground*. Projects are now underway to ensure *Manhattan's* continued economic well being *and* to improve the way *we* live. Through the extension of commuter rail to a new terminal deep beneath Midtown, the design of an entirely new subway line along the East Side, and the planning for a new freight railroad tunnel beneath the Hudson River, the leaders of our transportation industry are securing our future.

Our speakers will discuss the planning and engineering aspects of the three of the most "visible" projects underway, to develop new transportation systems that will be "invisible" (underground) operations. The Second Avenue Subway, the first major new subway line construction within Manhattan in decades, will provide the long-awaited East Side capacity required. The East Side Access project's extension of LIRR to Grand Central will offer many riders One Seat Ride access to a growing Midtown for the first time. And, the Cross Harbor Tunnel project will allow for the first major expansion of freight railroad systems recent history, and offer the only real chance at freeing regional roadways from continued trucking expansion.

Our invited Agency-Side speakers on these projects represent the complexities involved in advancing a major tunneling project from the planning stages into final design. Our invited Consultant-Side speakers will outline the specific engineering aspects of each of the tunneling projects, and the expected construction methodologies that will be used. Last, but certainly not least, we have invited an tunneling technology leader to explain to us all the major advancements that have been made in the tunneling equipment in recent years, and how those advances will make these projects possible.

DATE: Thursday, May 9th, 2002

COST: \$75

TIME: Brunch begins at 11:00 AM. Presentations to follow.

RSVP by May 2nd: Scott Derector, Gannett Fleming: sderector@gfnet.com

LOCATION: The Newark Club, One Newark Center, Newark, New Jersey (973) 242-0658

Watch for future emails and postings with details on agenda and speakers

LIKE WHAT YOU SEE ?? BE SURE TO STAY ON OUR MAILING LIST !!



We hope you enjoy these newsletters and reading about seminars, field trips, and other news in the North Jersey Civil Engineering community. This is **seventh** newsletter issued for 2001-2002 season (June to May). In order to stay on the mailing list, be sure to check the "Section Dues" box on your annual ASCE renewal. That extra \$20 goes a long way in funding many of the North Jersey programs, including issuing this newsletter.

If this is the first time you've received a newsletter this season, it may mean that you missed paying the Section Dues the last time you renewed. To pay online, go to <http://www.asce.org/membership/> and click on "renew your membership". Follow the prompts and pay just the Section Dues (\$20). If its your first time, don't worry – it's easy to create your a Member Online Account, which gives you access to many other features of www.ASCE.org.

To celebrate the 150th Anniversary of the American Society of Civil Engineers,
The New Jersey Section of the American Society of Civil Engineers
Requests the pleasure of your company at our

150TH ANNIVERSARY GALA

Saturday, May 11, 2002

New Brunswick Hilton (Exit 9 of the NJ Turnpike)

Directions: Tel: 732- 628-4202

Social Hour begins at 5:30 p.m.

The evening's program will include award presentations to:

- ◆ New Jersey Section Engineer of the Year – Bryan Juncosa, P.E. (North Jersey Branch)
- ◆ New Jersey Section Government Engineer of the Year – Kathleen Aufschneider
- ◆ New Jersey Section Young Engineer of the Year – Eugenia Roman (North Jersey Branch)
- ◆ New Jersey Section Service to the People – Assemblyman Alex DeCroce
- ◆ New Jersey Section Educator of the Year – Edward Dauenheimer , P.E.(NJIT)

- ◆ North Jersey Branch Civil Engineer of the Year – Paul Wood, P.E. (PA NY/NJ)
- ◆ Central Jersey Branch Civil Engineer of the Year – Richard T. Fischer, P.E.
- ◆ South Jersey Branch Civil Engineer of the Year – Edward Vernick, P.E.

- ◆ Top 10 New Jersey Civil Engineering Projects

Black Tie Optional

Entertainment includes the Musketeers Marching Band and live dinner music.

Name(s) _____

Address _____

City _____ State _____ Zip _____

Phone Number _____ e-mail address _____

Enclosed is my check for \$ _____, calculated as follows:

_____ Sponsorship at \$150.00 each (recognition in the program)	=	\$ _____
_____ Single reservations at \$100.00 per ticket	=	\$ _____
_____ Table of ten (10) at \$1,000.00	=	\$ _____

Please indicate the number of each dinner choice:

Dinner Choices: _____ Beef _____ Chicken _____ Fish _____ Vegetarian



Please return this completed form and
Check, made payable to "ASCE – NJ Section"
Mail by April 20, 2002 to:

Mr. Ali Vaezi, P.E.
Goodkind & O’Dea, Inc.
60 Feronia Way
Rutherford, NJ 07070
Tel:(201) 438-6166

ESSEX COUNTY COLLEGE PRESENTS SHORT COURSES

The Center for Technology at Essex County College provides a new and exciting venue for the training of the next generation of engineers, technicians and scientists. The Center, located in Newark's University Heights district, is a new, state-of-the-art 30,000 square foot facility that includes laboratories, classrooms and conference rooms.

The Institute for Applied Technology, a branch of The Center for Technology, is dedicated to providing professional training topics relevant to professionals who strive for advancement in their field. The following is a listing of some of the upcoming seminars.

Title of Seminar / Course:	Instructor:	Date:	Cost:
Intro. To GPS for Land Surveying	Mike Popoloski, L.S.	Friday, April 19	\$150
Detention Basin Seminar	John Gribbin, P.E.	April 26-27	\$295
Introduction to AutoCAD	Hossein Assadipour, Ph.D.	April 26-27	\$249

Essex County College is located next to New Jersey Institute of Technology (NJIT). **Registration is easy** - for more information or to request a registration form, contact John E. Gribbin, P.E. (Director) at (973) 877-3454.

ASCE Metropolitan Section Geotechnical Seminar:

A SPECIALTY SEMINAR IN EARTHQUAKE ENGINEERING

Tuesday, May 14th, 2002

Speakers:

I.M. Idriss (University of California at Davis)
 Joe Jaw-Nan Wang (Parsons Brinckerhoff Quade & Douglas)
 Dr. Sissy Nikolaou and Prof. Robert Semple (Mueser Rutledge)
 Mathew Meyer (Langan Engineering and Environmental Services)

Time: 2:30 PM to 8:00 PM

Place: CUNY Graduate Center Recital Hall
 365 Fifth Avenue, Manhattan (NE Corner of 5th Ave and 34th St)

Fee: \$100 before April 15, \$125 after April 15. Students \$35
 (includes seminar, proceedings, and wine and cheese reception following the seminar)
 Please make checks payable to "ASCE Metropolitan Section".

For full agenda and topics, and to download the registration form, go directly to
http://sections.asce.org/metropolitan/tech_groups/geotech.html
 Click on "calendar of events" and scroll to the May 14 Seminar
 Then click on "download registration form".

Or please contact Richard Prust of ARUP at 212-229-2669 (richard.prust@arup.com), or Kara Olen of Langan Engineering at 201-398-4805 (kolen@langan.com)



GARETH'S PICKS

This month's installment once again lists TV programs for curious minds. Leave this page near your remote, as a reminder next time you wonder *What's On TV?* Programs are listed by channel.

History Channel

Engineering Disasters 3

When design flaws fell projects the cost is often exacted in lives as we see in this look at engineering disasters. Why did the Tower of Pisa begin to lean by as much as 17 feet; what caused the first nuclear accident in 1961 in Idaho; what killed the three Soyuz 11 cosmonauts aboard the world's first orbiting space station; how did a winter storm destroy the Air Force's Texas Tower Radar Station, killing 28; and what errors led to NASA's loss of the Mars Climate Orbiter and the Mars Polar Lander?

Saturday, April 13 at 2:00 AM

Bridges

From amazing ancient Roman aqueducts and arch bridges, romantic Renaissance spans, 19th-century railroad crossovers, to monumental marvels of our time, bridges played a key role in the human quest to connect and unify. Trace the history of bridge types, including suspension, arch, beam, truss, and cantilever designs. **Thursday, April 18 at 7:00 PM**

Traffic: In less than a century, the world went from dirt tracks to highways, from propeller planes to space travel, from sailboats to supertankers. And in the process, we have created a glut of traffic on roadways, railways, airways, and seaways--traffic that must be controlled, managed, and regulated. We'll see how it's done. **Wed, April 24 at 1:00 PM**

Modern Marvels: The St. Louis Arch

It's a majestic structure that rises boldly over the Mississippi river--40,000 tons of steel and concrete that creates the biggest arch of its kind in the world. Nothing like it had ever been built before, nor attempted since. We'll see how its simple and elegant form results from remarkable achievements in construction and engineering.

Sat, April 27 at 6 PM

Map Making: Join us as we chart the colorful history of cartography--from ancient Marshall Islands' stick maps to the New York City Police Department's computerized super-map. Some are works of art, others are vital tools for law enforcement, space

exploration, and agriculture. Now satellites and the global positioning system has sparked a revolution.

Monday, April 29 at 1:00 PM

Aqueducts: Man Made Rivers of Life

The Romans were famous for their aqueducts, and without them some of the world's largest cities would turn to gigantic ghost towns. Though the technology has existed for over 2,000 years, today these engineering marvels cost billions of dollars to build. We'll focus on the systems of Los Angeles and San Francisco. **Tuesday, April 30 at 1:00 PM**

The Learning Channel

Big Builders: Meet the experts who build and operate the massive equipment used in the most ambitious civil engineering projects of modern history. Tunnel machine pros, crane supervisors, designers and project managers describe life on the job site. **April 14 at 6:00 PM**

Thinking Big: With help from engineers and architects, explore some of the biggest structures in America including the Statue of Liberty, Brooklyn Bridge, Empire State Building, the Hoover Dam and the eco-sensitive I-70.

April 14 at 9:00 PM & 11:00 PM and April 17 at 1:00 AM & 10:00 PM and April 20 at 6:00 PM

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. **April 18 at Midnight and 9:00 PM**

Mega Tower: Chart the dramatic race unfolding to construct the tallest high tech skyscraper in the world. Bankrolled by rival princes, the Al Faisaliah Tower and the Kingdom Center must withstand extreme weather to tower over the Saudi Arabian capital of Riyadh. **April 17 at 8:00 PM & 11:00 PM and April 20 at 2:00 PM**

Extreme Force: The weakness of a building is revealed by the devastating effects of an explosion or earthquake. Unexpected collapses, from the Alfred E. Murrah Federal Building in Oklahoma to the seaport in Kobe, Japan, constantly challenge engineers.

April 24 at 8 PM & 11 PM and April 27 at 2PM

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