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## North Jersey Branch Newsletter

### Bryan Juncosa Receives Zone Citizen Engineer Award

Bryan Juncosa, P.E., was recently given the Zone I Citizen Engineer Award by National ASCE. The award was in recognition of his leadership and efforts as part of New Jersey Task Force 1 (NJ TF-1) during the rescue and recovery work at Ground Zero last September.

NJ TF-1 Urban Search and Rescue Team is a volunteer organization under the New Jersey State Police Office of Emergency Management. The team is deployed by the Governor's office to respond to natural and man-made disasters in the hopes of finding and aiding victims. Bryan Juncosa is one of 3 Structural Specialists on the 162-person team. He is responsible for investigating and assessing a collapsed structure and determining if it is safe for rescuers to enter and search for victims. This position on the team has a high level of responsibility, as at-least 162 lives depend on his judgment and experience.

On September 11th, Acting-Governor Donald DiFrancesco deployed NJ TF-1 to the World Trade Center (WTC) within 10 minutes of the attack. Within 3 hours, all 162 team members were assembled in Lakehurst, New Jersey and transported to the Jacob Javits Center in New York City. Upon his arrival, Bryan was called upon to assess 130 Liberty Street, a 55-story building that appeared to be bowing out of plumb. All emergency personnel (i.e. firemen, policemen, EMS workers, etc.) had just been evacuated from the rubble to avoid fatalities due to another building collapse. Bryan quickly set up the theodolite, a measurement device used by surveyors, to determine the plumbness of the structure. Contrary to the observed condition, the measurements verified that building was still perfectly vertical. (It seemed that when the adjacent towers collapsed, an optical illusion was created by the exposure to sunlight; previously the building had been in the shadows.) Bryan reported his findings with his "ok" for emergency personnel to resume rescue operations.

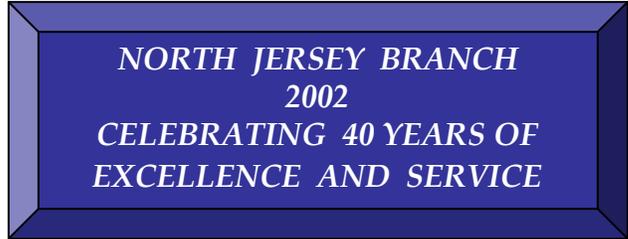
The following 9 days were just as critical and even more demanding. Each day Bryan and the other Structural Specialists would work for 12-hour shifts on the "pile" of rubble. Their job was to determine the stability and safety of various structures (or remains of), and did so in a methodical manner, under stressful conditions. However, the magnitude of the destruction on the complex and intricate structure, required that concise information was necessary to evaluate the conditions of the tower remains. Each time Bryan came off the "pile", he realized that another piece of vital information about the building design was necessary to safely continue the rescue operations.

Bryan then turned to local engineering community for support. During the next 6 days (between Sept. 14 and Sept. 20), *(continued on Page 5)*

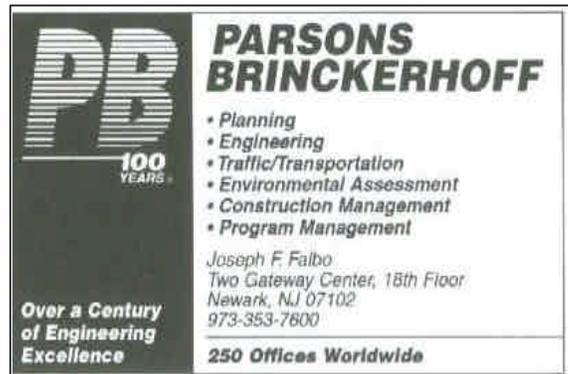
**PRESIDENT'S ADDRESS**

During the dinner seminar held on February 21st entitled "Restoration of Passenger Transportation to Lower Manhattan", the Zone Citizen Engineer Award was presented to Mr. Bryan Juncosa, P.E.. It was especially nice to present this award to him at a dinner where so many of his peers and colleagues were in attendance. Bryan Juncosa has spent most of life serving his community and the civil engineering profession in a variety of ways – see page 4 for the continuation of the front page article.

Many of you attended the seminar presented on November 15th, 2001 entitled "Ground Zero: Experiences of Engineers at the World Trade Center". During his presentation, Bryan described what it was like to be a Structural Specialist working at Ground Zero from September 11th to September 20th. The description of his experiences at Ground Zero were nothing short of breathtaking. Please join me in congratulating Bryan on the Zone Civil Engineer of the Year award and his commitment to his community and the civil engineering profession.

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



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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

**UPCOMING EVENTS**

March 27 and April 24	<p>“OSHA 10-hour Construction Standards Competency Training”</p> <p><b>SEE PAGE 7</b></p> <p>Special Opportunity For ASCE Members Only! And only \$75 cost!</p> <p>Sponsored by the Construction Group. Contact Gareth Middleton at 973.273.0076 or at <a href="mailto:gmiddleton@tishman.com">gmiddleton@tishman.com</a></p>
May 11 <sup>th</sup>	<p>New Jersey's Gala Event, celebrating ASCE's 150th Anniversary. For Individual Tickets, contact Bruce Fidler at <a href="mailto:bfidler@tamsconsultants.com">bfidler@tamsconsultants.com</a></p>

**NORTH JERSEY BRANCH CONTINUES  
SCHOLARSHIP PROGRAMS****\$1000 for High School Graduates**

Due to a great response last year, the North Jersey Branch is pleased to offer a \$1000 scholarship to graduating high school seniors residing in the North Jersey district, i.e. Sussex, Warren, Morris, Passaic, Bergen, Essex, Union or Hudson Counties. Eligible applicants must graduate this spring and intend to pursue a civil engineering curriculum at a college/university in the Fall of 2002.

For an application packet, see your guidance counselor, or contact Eugenia Roman at (201) 656-8810 or [eroman@hardesty-hanover.com](mailto:eroman@hardesty-hanover.com) for an electronic or hard copy application. Deadline for the applications is **April 5, 2002**.

**\$1500 for College Juniors**

The North Jersey Branch also annually awards a scholarship to college juniors. Students who are eligible must be currently studying Civil Engineering at one of the following accredited institutions:

Stevens Institute of Technology  
New Jersey Institute of Technology  
Fairleigh-Dickinson University.

For an application, please see the faculty advisor or contact: Ralph Dinkle at 201-262-7000 or [ralph\\_dinkle@urscorp.com](mailto:ralph_dinkle@urscorp.com).

The application deadline is **April 5, 2002**.

**LSC AND E-WEEK 2002:****ANOTHER SUCCESSFUL YEAR**

This past February, in celebration of Engineers Week, the North Jersey Younger Member Group formed a committee to lead the ASCE effort at the Liberty Science Center (LSC). This committee, led by YMG treasurer Chris Coke, was responsible for the organizing of this year's two day campaign to open the minds of young children to the world of engineering. Tables were set up on the bottom floor of the LSC, with some of the following exhibits:

- A computer with the West Point Bridge Design Software
- A liquefaction tank – 3D effects show what happens to the ground during an earthquake.
- Flinker, a game where you try to get a combination of paper clips and Styrofoam peanuts to suspend itself in water
- A truss building station where, with gumdrops (or baby marshmallows) and coffee stirrers kids were encouraged to design trusses
- An exhibit where kids learned a little about electricity and circuits

Both days were highly successful, with Monday the 18<sup>th</sup> being extremely busy. The kids got to take home some small prizes, and all volunteers were given t-shirts commemorating the event. And of course, visitors were free to walk around the LSC, which is a must-see on any list of things-to-do in the state of New Jersey.



*Kids (and adults!) were engrossed in using K'nex<sup>®</sup> to build complex and abstract structures*

**OFFICIAL BALLOT**  
**ASCE NEW JERSEY SECTION**  
**NORTH JERSEY BRANCH**  
**OFFICERS - 2002 -2003**

Below is the slate presented by the North Jersey Branch. In the right-hand column, mark your vote for each office as indicated. Write-in candidates are permitted; eligibility and willingness to serve will be verified.

In order to be valid, ballots must be signed and all information requested at the bottom must be provided. In order to be counted, this ballot must be received on or before April 15, 2002 by the current President-Elect:

Ms. Gita Sheth, P.E.,  
 Booz | Allen | Hamilton  
 Suite 1625 - Three Gateway Center  
 Newark, NJ 07102

or by Fax:  
 973-456-5015

<b><u>Indicate Vote Here</u></b>	
<b>President:</b> Gita Sheth, P.E.	<i>(No Vote Required – Elected 2001)</i>
<b>President – Elect:</b> Gareth Middleton, P.E.	_____
<b>Vice President</b> Christopher Taylor, P.E.	_____
<b>Secretary</b> Lamis Hamdan, P.E.	_____
<b>Treasurer</b> Richard Mehrman, P.E.	_____
<b>Director 1:</b> Paul Emilius, P.E.	_____
<b>Director 2</b> Michael Murno, P.E.	_____
<b>Name (Print or Type):</b>	<b>Membership No.</b> <small>(shown on address labels of newsletter)</small>
<b>Signature:</b>	<b>Date:</b>



## CITIZEN ENGINEER AWARD

*Continued from page 1*

Bryan called upon the engineering support team to provide an array of documents (i.e. plans, cross sections, photographs, etc.) that would be used by many task forces and rescue teams. During what was supposed to be his "sleep shift", Bryan spent his time talking to other task forces, sharing the design support documentation (i.e. plans, sketches). He would go to the Emergency Management Center on Pier 92, to search for additional information. His fellow rescuers, exhausted from their work during the "work shift", found his constant energy and motivation admirable. They were amazed to see how dedicated he was to getting the design information to the appropriate people (i.e. task force leaders, rescue team leaders, etc.) in the hopes that the information would keep the rescuers safe and lead them to areas where potential survivors may be located.

Once his assignment at Ground Zero was over, Bryan continued to share his experiences as an engineer/emergency responder to local communities and organizations. He wanted to promote the importance of being a civil engineer and the importance of the service provided by NJ TF-1. He has made presentations for the ASCE National Conference in Houston, the North Jersey Branch of ASCE, the Minnesota Section of ASCE, and for Arizona State University.

### Background

Bryan Juncosa graduated from New Jersey Institute of Technology in 1979 with a degree in Civil Engineering. He initially worked as a Structural Engineer for several different consulting firms. Bryan also became a commercially licensed Underwater Diver. In 1992, Bryan decided to start his own company, **Atlantic Engineering, LLC**, where he provides inspection services of underwater marine structures (email: ATLANTICDV.aol.com). Recently, "Discovery Channel" producers have asked Bryan to film a segment of a series that will highlight civil engineers and the importance of different types of marine structures.

Bryan currently volunteers as the General Contractor for the building improvements to the Reformed Church of Kinnelon, in Kinnelon, NJ. He coordinates the efforts of the masons, carpenters, electricians, and monitors progress on a daily basis. Their goal is have the building addition completed by Christmas.

In his residential community, many know Bryan as the "Community Governor" of maintenance. This title

has been bestowed upon him since he has been instrumental in implement new policies within the community that better organizes and utilizes the maintenance forces' time more efficiently.

Bryan is also an Eagle Scout and in the recent past, he has been a scout leader for Kinnelon Troop 217. He was especially responsible for instructing the scouts on Soil and Water Conservation, Engineering, Surveying, Landscape Architecture, First Aid, and Disability Awareness.

Bryan is a volunteer firefighter/ rescuer for the Kinnelon Fire Department. It is through this involvement, that he became involved with the NJ TF-1 Urban Search & Rescue Team

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## NORTH JERSEY TECHNICAL GROUPS

Get Active! 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](mailto:avaezi@goodkindinc.com) OR contact the individuals listed below:

### STRUCTURAL GROUP

Ken Clausen - (201) 438-6166  
kclausen@goodkindinc.com

### CONSTRUCTION GROUP

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

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Christopher Taylor - (973) 893-6000  
Email: ctaylor@systrausa.com

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### GEOTECHNICAL GROUP

Jay Meegoda - (973) 596-2464  
E-Mail: megoda@megahertz.njit.com

## GARETH'S PICKS



This month's installment once again lists interesting programs for curious minds. Both new shows and classic topics are scheduled for March.

Leave this page near your remote, as a reminder next time you wonder What's On TV?. Programs are listed by channel.

### The Learning Channel

#### **NORAD - Cheyenne Mountain**

A high-tech command and control center carved out of the Rocky Mountains serves as a nuclear attack watch post. Built entirely on springs, the North American Aerospace Defense Command sounds like science fiction, but is definitely a reality.

**March 20 at 10:00 PM and March 24 at 6:00 PM**

### History Channel

#### **Eiffel Tower**

It was meant to be a temporary exhibit, a demonstration of French engineering acumen at the Paris World's Fair. But to Parisians, the tower, designed by the brash, young Gustave Eiffel, came to stand for much more--revolution, innovation and a soaring spirit. **Wednesday, March 20 at 1:00 PM**

#### **Offshore Oil Drilling**

Offshore oil drilling is one of mankind's greatest technological feats. From the beginning of oil discovery, the oceans' vast reserves have been the ultimate frontier. See how these superstructures, both floating and fixed, revolutionized the search for crude oil, and the environmental price we pay for their prolific production.

**Thursday, March 28 at 2:00 AM**

#### **Empire State Building**

The amazing story of how the skyscraper was constructed during the depths of the Depression. Requiring 10-million bricks and 60-thousand tons of steel beams, and using a revolutionary technique to hold the steel girders in place--hot rivets--the landmark building was completed four months ahead of schedule. **Wednesday, March 27 at 7:00 AM**

#### **Baseball Parks**

Step up to the plate and play ball as we take you on a tour of those amazing edifices of the national

pastime--baseball stadiums! From the sandlots and wooden ballparks of the 1800's to the monolithic multipurpose stadiums of today, baseball parks have grown into technological wonders that pull in and cost millions. **Thursday, March 28 at 1:00 PM**

### The Discovery Channel

#### **Tunnels: Digging In**

Even with modern, massive pieces of specially designed machinery, building tunnels is a risky and awe-inspiring feat.. Explore the techniques, danger and design involved in the construction of six marvelous tunnels. **March 23 at 4:00 PM**

#### **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.

**March 23 at 3:00 PM**

#### **Three Gorges Dam**

The Chinese have a plan to tame the large, muddy and unpredictable Yangtze River with a huge dam that measures two and a half miles wide and 650 feet high. Creating a reservoir 400 miles long, the dam will be the world's largest concrete structure.

**March 27 at 8:00 PM and 12:00 AM**

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## NORTH JERSEY BRANCH IS RECOGNIZED WITH 2 AWARDS

Over the last few months, the North Jersey Branch was recognized by National ASCE in two ways.

In January, we were awarded the **Zone Public Service Award** for Large Branch. This was in recognition of member efforts, lead by Eugenia Roman, in organizing engineering support to NJ-Task Force-1 after September 11<sup>th</sup>.

Prior to that, we were awarded the Zone1 **Outstanding Large Branch Award** for 2000-2001. This was in recognition of the diversity and depth of the many programs the Branch offered, including technical and financial seminars, field trips, outreach, and networking.

(Note: A "Large Branch" is defined as a branch with 1001 to 2000 members.)

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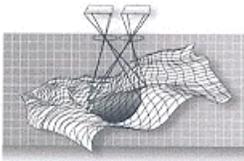
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