ASCE NEW JERSEY SECTION
North Jersey Branch

2016 - 2017 Branch Board

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NJB Celebrates Engineers Week 2017

The North Jersey branch hosted another fun-filled Engineers Week at Liberty Science Center this February. This year, visitors came through the museum over the two day event and had the chance to play with electricity, build bridges, mix concrete, fly drones, and more. The NJDOT and Michael Baker co-hosted an exhibit on one of our most recognizable local projects, the Pulaski Skyway. Mott MacDonald taught visitors about soil reinforcement. HNTB hosted an exhibit where guests could build their own roadways. Fun was had by attendees of all ages!

In case you missed it, check out our digital brochure at www.ascenjb.org/eweek.html for more information and some fun activities to try at home.

This event would not be possible without its volunteers. Each day, 100 volunteers came to the museum to lead activities and exhibits. Our volunteers came from Michael Baker, NJDOT, Mott MacDonald, HNTB, PS&S, Stevens Institute of Technology, New Jersey Institute of Technology, The College of New Jersey, and Columbia University. We cannot thank them all enough for their support.

Thanks to our 2017 sponsors and exhibitors for supporting this educational event:
Liberty Science Center · FIRST Tech Challenge · FIRST LEGO League · Junior FIRST LEGO League · Morris Museum · Google Lunar XPRIZE · K'Nex Team · Columbia Space Initiative · Pulaski Skyway Rehabilitation · Sylvan Edge · NJDOT Mott MacDonald · HNTB · Michael Baker International · PS&S · Dewberry

Submit an Award Nomination - see form on p.7

A Message from the President

Fellow North Jersey Branch Members,

I hope everyone had a joyous holiday and a great start to 2017. While we had a brief break for technical dinners in December, we have started the new year strong with a technical dinner by the North Jersey Branch of the ASCE Structural Engineering Institute (SEI) entitled "Behavior, Structural Design, and Applications of Ductile Cementitious Materials", with speaker Matthew J. Bandelt, Ph. D., Assistant Professor at NJIT, held at the Fairfield Crowne Plaza on January 12th. Thank you to Rima Taher for setting up the event, and to the speaker and attendees! If you'd like to get involved with SEI, please contact Rima or any other board member for more information.

February was a packed month for our members! On February 13th, we had our annual joint event with ASHE North-Central New Jersey Section at Snuffy's. It was a Transportation Technical Group (TTG) technical dinner on GSP Interchange 163 Improvements, presented by Lamis Malak (NJTA), Tony Fulco (Dewberry) and Mike Wilser from GPI to a packed house. The event was a great success, thanks to the efforts of ASCE TTG, ASHE North-Central NJ, and of course, the presenters.

And how could one overlook the highlight of February, Engineer's Week, from the 19th through the 25th! I hope everyone was able to take some time out to celebrate the profession that provides so much to society and is rewarding to us as civil engineers. In following with this year's theme, everyone should take some time to view the film that ASCE has released, Dream Big, which furthers the understanding of what value civil engineers bring to society. Limited screening for it began at Liberty Science Center in Jersey City on February 17th.

Our COPRI (Coasts, Oceans, Ports and Rivers Institute) and Water and Environment Technical Group (WETG) held a presentation on March 2nd, entitled "Living Shorelines" by Dr. Jon Miller (Stevens Institute of Technology) at the Crowne Plaza Fairfield. Looking ahead, we also have our full-day Geotechnical Seminar on March 16, and more technical dinners coming to you this spring. Keep on the lookout for our email blasts on upcoming technical events in April and May.

Finally, as I mentioned in my last message, one of my main focuses this year will be to increase outreach to the K-12 student group to help increase enthusiasm for civil engineering in the next generation. This year, Dream Big is spreading to libraries, namely this year's theme of "Build a Better World", so please look for activities and events at your local library promoting education surrounding civil engineering disciplines. So far, the Mt. Olive library has reached out to ASCE NJB to help plan activities, so look for that in the spring, with other libraries possible. And don't forget, if you or anyone you know would like to more actively participate and expand your network, feel free to contact anyone on the board or technical committees!

Regards,
Dhiren Patel

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STEP UP YOUR INVOLVEMENT!

ASCE North Jersey Branch will have new openings on the Board in 2017. Nominations are now open for all board positions (except President). See p. 6 for details

To learn more contact Dhiren Patel (dhiren.patel@parsons.com) or any current NJB Board member (names and contact details on p.1)

SAVE THE DATE!

The 2017 ASCE NJB Softball Tournament will take place on Saturday September 9, 2017

Don't miss out on this great event, which is not only FUN, but raises FUNDS for the NJB Scholarship program!

see details on p. 8

Educational Opportunities & Technical Dinners

NJB Guests attend "Living Shorelines" presentation

On March 2, the NJB's Water & Environmental Technical Group (WETG) and the North Jersey Chapter of COPRI hosted a technical dinner on "Living Shorelines." **Professor Jon K. Miller, PhD** of Stevens Institute of Technology gave a very interesting overview on living shorelines and how they are being applied in different environments. The presentation focused on materials that are being used, different application techniques, natural effects, and guidance on selecting appropriate designs based on available tools and Federal and State regulations.

In **February**, ASCE NJB and North Jersey ASHE held a joint technical event on "GSP Interchange 163 Improvements." Despite the event having to be rescheduled due to a snowstorm, the event drew a large audience, to hear **Lamis Malak, PE** from the NJ Turnpike Authority, **Mike Wilser, PE** from GPI, and **Tony Fulco, PE** from Dewberry discuss the history of the project, major project elements, and the challenges the went into shifting the exit ramps to the opposite side of the Parkway.

(l-r): Mike Wilser, Lamis Malak, Tony Fulco, Anne Sinagra (NJB Vice President), Jonathan Brunkhorst (NCNJ-ASHE President

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January's Technical Dinner was presented by the North Jersey Chapter of the Structural Engineering Institute. The topic was "Behavior, Structural Design, and Applications of Ductile Cementitious Materials." **Professor Matthew Bandelt** from NJIT's Department of Civil & Environmental Engineering gave the presentation, which focused on the unique mechanical properties of these materials -- which have led researchers and designers to investigate and design structural components where damage tolerance and enhanced structural performance is needed.

"Drilled Shaft Design and Construction"

John Turner, PhD, PE (Dan Brown and Associates)
Martin McDermott, P.G (McCrossin Foundations)

Thursday, March 16, 2017
Pantagis Restaurant (Snuffy's)
Scotch Plains, NJ

John Turner is a co-author of the 2010 LRFD FHWA manual "Drilled Shafts: Construction Procedures and LRFD Design Methods" and the author of NCHRP Synthesis 360, "Rock Socketed Shafts for Highway Foundations" and is currently a Senior Principle with Dan Brown and Associates. Dr. Turner will be joining the Geotechnical Technical Group to present on the analysis and design of drilled shafts as well as the techniques used for drilled shaft construction. The presentation will provide an introduction to LRFD design of drilled shafts, including an overall approach to the design of drilled shafts using LRFD methodology; methods for computing axial resistance; and design for lateral loading. Additionally, the presentation will provide an introduction to drilled shaft construction, including dry, wet and cased methods; and recent development in construction techniques. The purpose of this course is to teach the fundamental concepts of drilled shaft design and construction techniques and is intended for geotechnical engineers, foundation engineers, engineering geologists, structural engineers, civil engineers, and construction professionals.

REGISTER NOW - CLICK HERE
https://drilledshaftdesign.eventbrite.com

Cost:
$295 per person
$175 per person (Government Employees)
$175 per person (Full-Time Students)

8:00 am - 5:00 pm (7:30 registration)
includes continental breakfast, buffet lunch, coffee breaks and seminar proceedings

The program is currently pending approval for 6 or more PDHs

FEBRUARY CELEBRATIONS OF ENGINEERING

ASCE NJ's Jean Hansen (far right) with this year's winning team, "Novus Initium" from Iselin Middle School.

1992-2017 25TH ANNIVERSARY
FUTURE CITY COMPETITION

2017 Future City Regional Competition Highlights

ASCE is a proud sponsor and participant in the Future City competition each year. The competition, which challenges teams of middle school students to create cities of the future to meet a specific theme, is an interactive means to encourage students in math, science, and engineering.

This year, team "Novus Initium" from Iselin Middle School took first place at the Future City NJ Regional Competition, which was held Jan. 14 at Rutgers University in Piscataway. Eighty (80) teams took the challenge; the students researched, designed and wrote a solution to a real issue in the community based on this year's competition theme, "The Power of Public Space." In addition to presenting their cities, students attended sessions led by PSE&G, the Project Management Institute, and Engineers Without Borders. They also met college students from engineering groups and spoke with professionals from engineering firms, societies, and utility companies. Keeping in line with the year's theme "The Power of Public Space", the keynote was delivered by Robert Eisenstat, AIA, LEED AP, Chief Architect of the Port Authority of NY & NJ Engineering Department.

Team "Sinking City," from Kenneth R. Olson Middle School in Tabernacle, took second place and Team "Soleia," from Hoboken Charter School in Hoboken, finished third. Team Novus Initium then went on to compete in the Future City Competition National Finals held in Washington, D.C. Future City would like to thank ASCE NJ Section and Branches, as well as all the firms and professionals who donated their time and/or resources to help make this event a success.

Didn't get a chance to see "Dream Big" yet? Bring the coupon below to Liberty Science Center for a discount on admission! (see coupon details - valid thru June 30, 2017)

Younger Member Group (YMG) Roundup

MARK YOUR CALENDARS FOR UPCOMING YMG EVENTS:

March 21: Professional Panel
6:00 pm, the "Atrium" NJIT Campus Center, Newark, NJ

The YMG will be hosting a Professional Panel at NJIT. Students and younger members will have the opportunity to hear from a panel of professional engineers on various topics.

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March 25: NJ Devils Game!
7:00 pm, the Prudential Center, Newark, NJ
Come join us Saturday March 25 to watch the NJ Devils take on the Carolina Hurricanes! We have special 100 levels seats for members, non members, family, and friends.

GET INFO & PURCHASE TICKETS
$30 (Members) $40 (non-members/guests)

YMG BOARD 2016-2017

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President-Elect: Silvia Santos
Silvia.Santos@de-simone.com

Vice President: Daniel Borges
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Secretary: Elizabeth Rophael
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REMINDERS

2017 Scholarships Available - CLICK FOR MORE DETAILS
Applications are being accepted for ASCE North Jersey's Scholarship. Full details including requirements, deadlines, and application can be found here.

PE Review Course - CLICK FOR MORE DETAILS
Registration for afternoon Depth Sessions of the 2017 Spring PE Review Course is open until March 18.

Call For Presentations
We're looking for presenters! If you have an interesting project or topic you want to talk about, let us know. Send all presentations to ymg@ascenjb.org

Job Postings - CLICK FOR MORE DETAILS
Check out the ASCE North Jersey Branch website for many job openings in Northern NJ.
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2017 Award Nominations Now Open

It's time to begin thinking about nominating your colleages and peers for their accomplishments in civil engineering.

The ASCE North Jersey Branch is now be accepting nominations for the following awards:

Civil Engineer of the Year
Government Engineer of the Year
Young Civil Engineer of the Year
Educator of the Year
Service to the People
Excellence in Journalism

The full Nomination form can be found on the next page, as well as downloaded from our website at www.ascenjb.org.

Nominations are due August 1st.

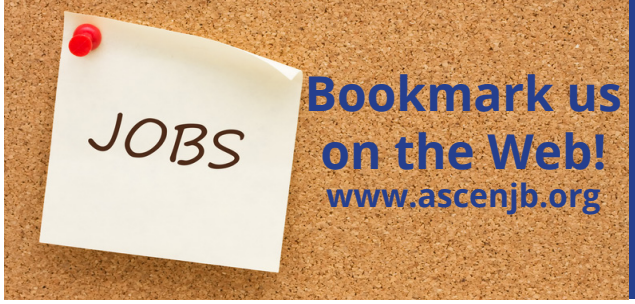
NJB Seeking New Leaders for Branch Board

The ASCE North Jersey Branch has openings for new leaders!

If you are interested in becoming more involved in the North Jersey Branch, we may have opportunities for you. The ballot for Branch Officers is currently being developed and will be voted on in August.

Nominations are now open for all positions except President. Available positions include: Secretary, Treasurer, Vice President, President-Elect, and Director

To learn more about what is involved in being on the NJB Board or to express interest, please contact Edgardo Perez at pereze1@pbworld.com



Visit the ASCE NJB Website to check the event calendar and take advantage of postings for local job opportunities. Recent postings include structural, highway, and environmental engineering opportunities for leading firms and agencies.

2017 Award Nomination Form

ASCE North Jersey Branch - 2017 Civil Engineering Awards

Description	Criteria
Civil Engineer of the Year Presented to an individual who has contributed substantially to the advancement of the civil engineering profession.	1. ASCE membership grade of member, fellow, honorary or life member. 2. Member in good standing with the New Jersey Section and North Jersey Branch.
Young Civil Engineer of the Year Presented to a young civil engineer who has significantly contributed to the civil engineering profession.	1. ASCE membership must be at least associate member. 2. Must be 35 years of age or younger as of August 1, 2016. 3. Must be in good standing with New Jersey Section & North Jersey Branch.
Service to the People Award Presented to an elected or appointed government official who has contributed substantially to the statues of the civil engineering profession by meritorious public service.	1. Must hold office in a jurisdiction that corresponds to an area within the boundaries of the North Jersey Branch.
Educator of the Year Award Presented to an outstanding educator who has contributed substantially to civil engineering through knowledge and guidance.	1. Must be affiliated with an educational institution located in the State of New Jersey. 2. Institution must support a civil engineering (or civil engineering technology) curriculum
Government Civil Engineer of the Year Award Presented to an individual who has contributed substantially to the advancement of the civil engineering profession in the government sector.	1. ASCE membership grade of member, fellow, honorary or life member. 2. Member in good standing with the New Jersey Section and North Jersey Branch.
Excellence in Journalism Award Presented in the name of a journalist or publication that has reported the accomplishments of those persons or in civil engineering.	1. Journalist or publication is located within OR covers relevant topics within the boundaries of the North Jersey Branch. 2. Advanced public knowledge and understanding of civil engineers. 3. Describes the relevant project or issue and the civil engineer's role in the project.

Nomination Form

Nomination By: _____

Address: _____

Phone Number & Email: _____

Name of Nominee: _____

Address: _____

Telephone Number: _____

Job Title: _____

Employer/ School: _____

Member of ASCE: yes _____ no _____; If yes, Membership Grade _____

Award(s) Nominated For (list all that apply): _____

Please list academic degrees, involvement in other profession societies, civil or charitable activities, other awards or honors:

_____

_____

Achievement: Please support the candidate's nomination with a brief statement of 200 words or less, on a separate sheet.

Excellence in Journalism Award: Include a copy (original or photocopy) of the article as it appeared in the publication, which should include the publication's masthead and date of publication, article title, publication date, publication name, publication phone and fax, and the journalist's editor and publisher, and a description of how the entry meets the criteria.

Please e-mail this completed form and attachments to Edgardo Perez, PE at pereze1@pbworld.com
by August 1, 2017. Additional forms are also available on-line at www.ascenjb.org

ASCE NJB Softball Tournament
September 9, 2017
Mark your calendars!!

2016 Softball Champions, from Louis Berger, Inc.

Save the date and get your glove out!

ASCE NJB announces the date for the 2017 Softball Tournament
Saturday Septmeber 9th

The Annual Softball tournament is not only FUN - it raises FUNDS for the NJB Scholarship Program! Your support and participation allow us to award thousands of dollars to undergraduate and high school students in the North Jersey area.

The North Jersey Branch would like to acknowledge the dedication of Chris Baldwin, who served as the Softball Tournament coordinator for the past few years. This year, we welcome and introduce Silvia Santos, who will take over Chris's role as the "Commissioner of Softball."

The fields are reserved and registration will open soon. Please contact Silvia Santos (Silvia.Santos@de-simone.com) to get more details or if you would like to help with the tournament in any way.

Scholarships Available!

Attention College Students! The North Jersey Branch awards scholarships every spring to qualified students who demonstrate academic and extracurricular achievement New Jersey Institute of Technology, Stevens Institute of Technology, and Fairleigh Dickinson University. Scholarships are awarded to Juniors who attend one of these schools. The Junior must be in a civil engineering curriculum, and should be in the next to last year of their degree program.

Deadline for application submission is: March 24, 2017.

CLICK HERE to download the ASCE NJB College Scholarship Application

In 2016, ASCE NJB awarded $10,000 in Scholarships!

High School Scholarships Also Available!

The North Jersey Branch also has a **High School Scholarship** program for students who intend to pursue a college degree in Civil Engineering or an Associate's degree in Civil Engineering Technology.

Any high school senior who resides in the North Jersey Branch jurisdiction (Sussex, Warren, Morris, Passaic, Bergen, Essex, Union, or Hudson counties) who intends to graduate from high school in May/June 2016 and plans to pursue a Civil Engineering or Civil Engineering curriculum at an accredited college/university beginning in the Fall of 2017 may qualify for one of our scholarships. Qualifying seniors must have applied to schools that offer an ABET-Accredited Civil Engineering or Civil Engineering Technology program.

Deadline for application submission is: March 24, 2017.

CLICK HERE for the High School Scholarship Application

Additional Scholarship Opportunities

Increase your chances of winning scholarship monies by also applying for the ASCE New Jersey Section scholarship program. Section Scholarships, including the John Craig Scholarship (specifically for NJIT students) are available to members of American Society of Civil Engineers (ASCE) Student Chapters located in the State of New Jersey and members of out of state ASCE Student Chapters having their legal home address in the State of New Jersey.

Up to two (2) applicants may be selected each year to receive a $2,000 award from the New Jersey Section.

Section Scholarship Timeline:
March 31, 2017 - Applications Due (applicants should be in next-to-last year of study)

CLICK HERE for the ASCE NJ Section Scholarship Application

CLICK HERE for the John Craig (NJIT) Scholarship Application

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