

2016 - 2017 Branch Board

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ASCE Leaders to Convene in Newark in January

The 2017 Multi-Region Leadership Conference for Regions 1, 2, 4 & 5 will be held in Newark, NJ on **January 20-21, 2017**. The conference includes the Workshop for Section and Branch Leaders (WSBL), the Eastern Region Younger Member Council (ERYMC), and the Workshop for Student Chapter Leaders (WSCL).

Help support this conference by being an event sponsor! Contact Joe Danatzko (jdanatzko@aelgroup.net) for more details or [CLICK HERE](#) to download the MRLC Sponsorship Flyer.

Newark Liberty International Airport Marriott
Rate: Single/Double - \$129/night (Reservation: 1-800-882-1037)
Hotel reservation Cut-off Date: December 29, 2016



New Jersey Regional Competition: January 14, 2017

Get involved - Volunteer!
We need judges, and people to help staff the "meet the professionals" table. See page 6 for more details



ASCE North Jersey Branch October Technical Dinner: Minimizing Construction Claims

On October 18, the North Jersey Branch Professional Issues Technical Group held a technical dinner on "Minimizing Construction Claims." Speaker George Fink of MBP discussed ways to minimize claims during construction in efforts towards "Flawless Design and Construction". The presentation focused on key elements of owner program requirements, design coordination, quality control and quality assurance plans for all involved and addressing concerns of neighbors. More than 40 attendees participated in this event, which was held at the Crowne Plaza in Fairfield. A copy of this presentation is posted on the branch website at <http://ascenjnb.org/groups.html>.

A Message from the President

Fellow North Jersey Branch Members,

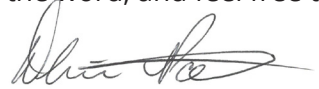
I hope everyone had a great Thanksgiving and a good start to the holiday season shopping! I hope we all get a chance to reflect on the past year and be thankful for all our blessings, and set some goals for the New Year. I hope one of those goals is to give back to the community and get more involved, and what better way than to get involved with ASCE! If interested, please feel free to reach out to anyone on the board. We have had a great few months of events for the branch, as well as exciting new programs to increase our outreach in the works. While we take the hectic and holiday party prone December off from events, we already have events in January and February scheduled!

In October we had our annual Professional Issues Technical Group (PITG) event, "How to Minimize Claims During Construction", presented by George B. Fink, Jr., PE, CCM, Vice President and Branch Manager of MBP, with a great turnout. A big thanks to Ron Gumann and Tony Pecci, co-chairs of PITG, for putting together another excellent event. There are few events throughout the year that help fulfill the required 2 credits of ethics training for professional engineers, so this is a "must not miss" event every year.

On November 3rd, the North Jersey Chapter of the Coasts, Oceans, Ports, and Rivers Institute (COPRI) held a dinner meeting on "Mantoloking Beach Erosion & Remediation after Superstorm Sandy", shedding some light on the extent of the shoreline erosion and the status of the elements now in place to increase resiliency. It was presented by Dr. Stewart C. Pharell, Ph. D. of Stockton University Coastal Research Center and Robert Mainberger, PE, CME, Senior Vice President at Mott MacDonald, who shared his perspective of the challenges presented to the town. Thank you to COPRI Chair Sean DiBartolo for setting up the event for a packed house!

Looking forward, our next technical dinner will be on January 12th, with the North Jersey Chapter of the Structure Engineering Institute (SEI) hosting "Behavior, Structural Design, and Applications of Ductile Cementitious Materials", with speaker Matthew J. Bandelt, Ph. D., Assistant Professor at NJIT, to be held at the Crowne Plaza in Fairfield. It looks to be a great event, please watch your inboxes for the email and flyer to sign up! For February, we have also have a joint event with ASHE North-Central NJ Chapter planned, so please be on the lookout for that, as well celebrating E-Week at the Liberty Science Center in Jersey City.

Finally, 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 and secure the future of our industry. I am proud to announce that the ASCE North Jersey Branch is partnering with the Jersey STEM, a network of parents, professionals, students, and educators that promotes excellence in STEM at local schools in north jersey. Jersey STEM is adding to their robust program a bridge design contest for the participating students, and will be looking for volunteers from both the industry as well as students at local universities. Please help spread the word, and feel free to get in contact with me if you'd like to learn more.



Dhiren Patel, PE
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I wish you all happy holidays and good tidings for the New Year! 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!

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### STEP UP YOUR INVOLVEMENT!

ASCE North Jersey Branch will have new openings on the Board in 2017. Nominations will be opening soon for all board positions (except President).

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

# Educational Opportunities & Technical Dinners

**February 9, 2017**

## **"NJTA Interchange 163"**

Joint Technical Dinner Seminar with  
North-Central NJ ASHE

Watch your inbox for email invitations and  
registration details!

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## **Mantoloking Beach Erosion and Remediation After Superstorm Sandy**

On November 3, COPRI hosted a pair of presentations on Mantoloking Beach erosion events and the remediation and protection of the beach using a steel sheet pile wall. Dr. Stewart Farrell of the Coastal Research Center at Stockton University presented on the coastal erosional and natural depositional processes on a sand-based shoreline particularly at the Mantoloking Beach, and what forces and events shape the beach/dune system. Mr. Mainberger of Mott MacDonald presented the temporary measures used for shoreline protection at Mantoloking as well as the dune restoration project sponsored by the NJDEP, Borough of Mantoloking, and The Township of Brick that includes a 45-foot-deep buried steel sheet pile wall at the core. Nearly 60 people attended these lectures that offered them 2.0 PDHs accredited for New York State and New Jersey.



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.

## **"Behavior, Structural Design, and Applications of Ductile Cementitious Materials"**

Matthew J. Bandelt, PhD, Assistant Professor  
NJIT, Dept. of Civil & Environmental Engineering

**Thursday, January 12, 2017  
Crowne Plaza - Fairfield, NJ**

Ductile cementitious materials are a class of cement-based materials that exhibit a pseudo strain-hardening behavior in uniaxial tension after first cracking, and retain residual strength in compression after crushing. The unique mechanical properties of these materials have led researchers and designers to investigate and design structural components where damage tolerance and enhanced structural performance is needed.

This presentation will discuss:

- The material behavior of ductile cementitious materials
- Applications of ductile cementitious in structural members
- Methods for designing structural components with these materials
- Computational tools that can predict the behavior of components utilizing ductile cementitious materials.

### **REGISTER NOW - CLICK HERE**

[https://sei-ductilecementitiousmaterials.  
eventbrite.com](https://sei-ductilecementitiousmaterials.eventbrite.com)

Cost:

\$65 (ASCE Members)  
\$60 (Government Employees)  
\$70 (Nonmembers)  
\$40 (Full-time Students, with ID)

|                |                            |
|----------------|----------------------------|
| 5:30 - 6:30 pm | Registration and Reception |
| 6:30 pm        | Dinner and Presentation    |

This technical dinner is presented by the Structural Engineering Institute North Jersey Chapter. *The program is currently pending approval for 1 PDH*



## CELEBRATE E-WEEK IN FEBRUARY

### Mark Your Calendars! National Engineers Week at Liberty Science Center is back for 2017!



**When:** Monday, February 20 (Presidents Day) and Saturday, February 25 · 10:00AM-4:00PM

**Where:** Liberty Science Center, Jersey City

ASCE NJB will be hosting two days of events filled with hands-on activities and exhibits all about engineering. Come learn about all types of engineering and see interesting projects from robots to bridges!



Last year, Engineers Week at the Liberty Science Center hosted 9,500 children and parents. They participated in educational programs, games, and contests created, sponsored, and executed by our organization with the assistance of nearly 200 dedicated volunteers.



### E-Week Sponsors Needed!

**We are currently seeking sponsors for this year's event.** Without the support of our sponsors, this event would not be possible. **Sponsorships are due by January 11, 2017.** Contact Gabrielle Czernik ([gczernik@dewberry.com](mailto:gczernik@dewberry.com)) to obtain a sponsorship packet.

#### Thanks again to our 2016 sponsors:

*Liberty Science Center | FIRST Tech Challenge | FIRST LEGO League | Junior FIRST LEGO League | Morris Museum | Google Lunar XPRIZE | K'Nex Team | Future City | Pulaski Skyway Rehabilitation | NJDOT | Sylvan Edge | Mott MacDonald | ANS Consultants | HNTB | FNA Associates | CME Associates | Black & Veatch | Inrad Optics | Dewberry | M&J Engineering | Michael Baker International | Anthony E. Soriano, Jr. | Vatsal A. Shah, PhD, P.E.*

# Younger Member Group (YMG) Roundup

## Recent Events

The YMG held an Open Meeting on November 2 at Langan's Parsipanny office. Several members attended and provided input into future events and programs they would like to see. The YMG board will consider these suggestions in future event planning.

## NJ Devils Game

On November 12, the YMG attended the Devils vs. Buffalo Sabres game at the Prudential Center in Newark. The Devils defeated the Sabres for a fourth straight win with a score of 4-2.

## Joint Happy Hour with Central Jersey YMG

On November 17, the North Jersey YMG co-hosted a happy hour with the Central Jersey YMG at Fox & Hound in Edison, NJ. Members from both regions were able to network over pool and appetizers.



## MARK YOUR CALENDARS FOR UPCOMING YMG EVENTS:

### February 4, 2017: SKI TRIP!

The YMG will be hosting the annual Ski Trip at Camelback Mountain. Younger Members from Central Jersey, Lehigh Valley and MET Section younger members groups will be in attendance.

Ticket Sales are now open. Register here:  
[https://2017asceymg\\_skitrip.eventbrite.com](https://2017asceymg_skitrip.eventbrite.com)

## New Officer elected to YMG Board

Elizabeth Rophael has been selected as the new Secretary for the Younger Member Group. Elizabeth is a Senior Engineer with the Sussex County Engineering Department. She will be assisting the YMG in maintaining the group's records.



## YMG BOARD 2016-2017

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President-Elect: Silvia Santos  
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Vice President: Daniel Borges  
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Secretary: Elizabeth Rophael  
[lizrophael@gmail.com](mailto:lizrophael@gmail.com)

Treasurer: Alexander Lee  
[ahl1204@gmail.com](mailto:ahl1204@gmail.com)



Future City is a project-based learning program where students in 6th, 7th, and 8th grades imagine, research, design, and build cities of the future.

## This year's project topic: The Power of Public Space

The Challenge: Design innovative, multiuse public spaces that serves a city's diverse population by converting two different areas, a roadway and a brownfield or greyfield, into public space.

Over 40 schools will participate in the New Jersey Regional Future City Competition, which will be held at Rutgers Livingston Student Center on Saturday January 14, 2017 (MLK weekend)

How can ASCE members help support this great Middle School STEM activity?

- **Broadcast this information to your Firms and Professional Friends**
- **Volunteer to be a Judge**  
Remote judging starts in December (needs only a few hours)  
Or all day at the competition on 1/14/17  
Have interested people contact [judging.futurecity.nj@gmail.com](mailto:judging.futurecity.nj@gmail.com)
- **On January 14**  
Volunteer at the NJ ASCE table in the "Career Fair" Meet the Professionals activity:  
2-hour shifts or longer  
Have interested people contact [jean.g.hansen@gmail.com](mailto:jean.g.hansen@gmail.com)  
Volunteer to provide General Help where ever needed:  
All day preferred but shorter shifts available. T-Shirt and lunch provided!  
Have interested people contact [Silvia.Santos@de-simone.com](mailto:Silvia.Santos@de-simone.com)  
Consider being a NJ Future City mentor:  
A few locations are still open for this year  
Learn now to mentor next season  
Have interested people contact [jean.g.hansen@gmail.com](mailto:jean.g.hansen@gmail.com)

For more details, contact a member of the NJ Future City Competition Steering Committee  
Sunny Mullen – Regional Coordinator [newjersey@futurecity.org](mailto:newjersey@futurecity.org) Cell: 402-630-0595  
Jean Hansen - Mentor Coordinator [jean.g.hansen@gmail.com](mailto:jean.g.hansen@gmail.com) Cell: 732-672-5614





# 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. At least two (2) 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 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. 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 2017 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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