President’s Message

I hope everyone had a great summer and are looking forward to the start of a new school/college year and the excitement that ensues. I know my wife and I are excited about seeing our 1st child take on his first school bus ride to Kindergarten. If we can only pause time; it is going way too fast!

As your new Chapter President, I would like to thank all the members and the board of directors for electing me to serve for the 2019-2020 term. I am looking forward to working with our board and officers for a strong year with planned activities, scholarships, recognition awards and continuing education seminars. Our members are actively participating in E-week, Mathcounts, Future Cities, PIE foundation and many other non-profits, asserting to our mission of volunteering and community engagement. I have been involved with the chapter since 2010, and I am proud to be associated with an organization that has helped in many ways to spread the awareness of consulting engineering profession and to encourage young students to pursue careers in this area.

This year, the chapter recognized (4) four very deserving and meritorious students with $1500 scholarships each. The names of the winners are Adam M Basile, Jennifer E Whitney, Mikayla R Lahr and Saumya S Mehta. The Spring and Fall Golf tournaments are the biggest source of fund-raising for the scholarship program. I encourage all members to sign up either individually or corporate sponsor the event; it not only allows professionals to have some fun but also supports the chapter’s mission of engineering outreach to young students. Please read more information on Spring 2019 and upcoming Fall 2019 golf event. Feel free to reach out to Mark Ritter for any information related to golf tournaments and scholarships.

I encourage members to renew their membership. Your membership comes with a lot of benefits (https://www.nspe.org/membership/why-join), including supporting our chapter efforts to promote the profession. I hope you will consider renewing your membership and join us in our efforts to strengthen the practice of our profession and promoting it to the public. Additionally, the chapter is always looking for members to volunteer as a board member and/or officer; please reach out to me directly at nbodhankar@bergmannpc.com to participate.

I would like to recognize our chapter’s immediate past president, Steve Moore. Steve has been a strong pillar of our chapter and has contributed tremendously for its continued success. He has provided me with a strong foundation to keep the chapter moving in the right direction. Also, I would like to take this opportunity to recognize our Secretary David Hansen. David’s meticulous note taking as well as insight on board activities is paramount in documenting the chapter’s record of contributions. For posterity, our meeting minutes, etc. will serve as testament to our commitment to the continued progress of Professional Engineering profession.

Sincerely,
Nikhil Bodhankar, P.E.

Serving Albany, Champlain Valley, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Montgomery, Rensselaer, Saratoga, Schenectady, Schoharie, St. Lawrence, Warren, and Washington Counties
### Calendar of Events

<table>
<thead>
<tr>
<th>Date</th>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>Sept. 2019</td>
<td></td>
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<tr>
<td>11</td>
<td>Chapter Board Meeting</td>
<td>Atlantic Testing Lab., 22 Corporate Park Drive, Clifton Park</td>
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<tr>
<td>19</td>
<td>36th Annual Fall Golf Outing</td>
<td>Schenectady Municipal, 400 Oregon Ave., Schenectady, NY</td>
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<tr>
<td>Oct.</td>
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<tr>
<td>TBD</td>
<td>Chapter Board Meeting</td>
<td>Atlantic Testing Lab., 22 Corporate Park Drive, Clifton Park</td>
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<td>Nov.</td>
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<td>1</td>
<td>NYSSPE Meeting</td>
<td>Airline Drive, Albany</td>
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<tr>
<td>9</td>
<td>RPI/Clarkson Hockey Game</td>
<td>RPI</td>
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<tr>
<td>TBD</td>
<td>Chapter Board Meeting</td>
<td>Atlantic Testing Lab., 22 Corporate Park Drive, Clifton Park</td>
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<td>Dec.</td>
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<tr>
<td>TBD</td>
<td>Chapter Board Meeting</td>
<td>Atlantic Testing Lab., 22 Corporate Park Drive, Clifton Park</td>
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<td>Jan.</td>
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<tr>
<td>TBD</td>
<td>Chapter Board Meeting</td>
<td>Atlantic Testing Lab., 22 Corporate Park Drive, Clifton Park</td>
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<td>11</td>
<td>Future Cities</td>
<td>Armory, Russell Sage College, Albany</td>
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<td>Feb.</td>
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<td>Mathcounts</td>
<td>GE Facility Albany area &amp; SUNY Adirondack, Queensbury</td>
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<td>13-14</td>
<td>E-Week</td>
<td>189 Wolf Road, Albany, NY</td>
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<tr>
<td>May</td>
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<tr>
<td>8</td>
<td>Spring Golf Fundraiser</td>
<td>Kingsbury National Golf Course, Hudson Falls</td>
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For additional NSPE events occurring at the state level: [https://www.nysspe.org/](https://www.nysspe.org/)

**MISSION STATEMENT** - The New York State Society of Professional Engineers is an organization of engineering professionals from all disciplines and employment sectors that advocates licensure, promotes the ethical, competent and lawful practice of engineering, and enhances the image and interests of its members and the engineering profession.
Upcoming Events

Fall Golf

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# 36th Annual NYSSPE Fall Scholarship Tournament

**Capital District Chapter NYSSPE**

**Schenectady Municipal Golf Course**

**September 19, 2019**

- 1 PM Shotgun Start
- Entry Fee $90 per Player
- Maximum 32 Teams (128 Players)
- Entry Must Be Received By Sept. 9th

**Format:** 4 Person Scramble (Minimum 3 Drives Per Player)

**Registration Starts At Noon**

**Closest To The Pin Contest On All Par Threes**

**Additional Prize Drawings For All Players**

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### Team Members:

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<tr>
<th>Name</th>
<th>Email</th>
<th>USGA Index</th>
<th>Handicap (Schenectady Muni Slope 113)</th>
<th>Phone</th>
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**Lunch ~ Golf ~ Cart ~ Prizes**

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*Photos by Doug Cole PE*
Upcoming Events

Fall Golf

Hole Sponsorships $150

We will display a sign with your company name and business information or complete company information if camera ready art* is provided. In addition you will receive recognition on information provided on each cart as well as at the awards portion of the tournament.

The local Capital District Chapter of the New York State Society of Professional Engineers, NYSSPE provides scholarships to high school seniors from Albany, Columbia, Fulton, Greene, Hamilton, Montgomery, Rensselaer, Saratoga, Schenectady, Schoharie, Warren and Washington counties who are entering their freshman year of Engineering Studies. Our golf tournaments are the primary source of funds for these scholarships.

Donation of prizes and or gift certificates from your business or items you purchase from other businesses. This will also provide recognition on tournament program as well as during the awards portion of the tournament.

Please provide the following information:

Company Name: ____________________________
Company Address: __________________________
Company Contact Information: __________________________
(Phone number and/or website): __________________________

MAKE CHECKS PAYABLE TO: CAPITAL DISTRICT CHAPTER NYSSPE

Send Checks to: Douglas Cole
97 Stacey Crest Drive
Schenectady, NY 12306
Phone (518) 421-2329
Email: docle@primeeng.com

Email Camera ready artwork to Douglas Cole

Lunch ~ Golf ~ Cart ~ Prizes
2019 Capitol District Chapter NYSSPE
Scholarship Golf Tournament, Kingsbury National Golf Course
On Friday May 10th the golf gods smiled at the 40 golfers who helped make this year’s tournament a fun-filled event. The event raised over $3,000 for our Annual Scholarship Program. Darren Tracy and Mark Ritter want to thank everyone who played, sponsored a hole or donated a prize in support of this year’s tournament.
We hope all of you, and your associates, will be able to join us next Spring for another day of golfing.

HOLE SPONSORS
Atlantic Testing Laboratories, Inc., ATL
Bonacio Construction
CT Male
Curtis Lumber
Dente Engineering
Golde Engineering
Harlan McGee
SI Technology Division of Security Integrations

HOLE IN ONE CONTESTS
SPONSOR
Michael Fisher, P.E.

PRIZE DONORS
Agway
Atlantic Testing Laboratories, Inc, ATL
Battenkill Country Club
Cronin's Golf Resort
Gore Mountain Ski Area
Hiland Park Golf Course
Kingsbury National Golf Course
NBT Bank
New York State Society of Prof. Engineers
Queensbury Golf Course
Simpson Strong-Tie
Sprinkles Ice Cream Shoppe
Stantec
The Sagamore Golf Resort
Past Events

2019 Spring Golf Outing (cont.)

Results for May 10, 2019

Championship Flight
1st Place Anne Garity, Bill Held and Kevin Haller 59
2nd Place Bob Grogan, Bob Kelly, Bob Kelly III and Mark Ritter 64

1st Flight
1st Place Darren Tracy and John Harding 70
2nd Place John Waldmann, Jesse Waldmann, Jim Campopiano and George Ferone 71 (Tie Breaker)
Long Drive # 6 Jesse Waldmann
Long Drive #10 Kevin Haller

Closest to the Pin
#2 Pam Allers 21’4”
#4 Bob Kelly III 10’ 7”
#11 Bob Rodack 27’
#13 Anne Garrity 4’ 7”
#16 John Harding 10’ 8.5”
The following are this year's scholarship winners ($1,500 each). Congratulations to Adam Basile (South Glens Falls), Jennifer Whitney (Granville), Mikayla Lahr (Acadamey of Holy Names) and Saumya Mehta (Niskayuna). In a complicated, sometimes discouraging, world these young adults provide hope for the future.

Adam

Jennifer

Mikayla

Saumya
Young Engineer of the Year— Sara Mantas

Since joining The Chazen Companies (Chazen), Sara has demonstrated a contagious positive energy for the engineering profession, a passionate drive to grow professionally, and a dedication to improving the workplace where she began as an intern. Having already obtained her Engineering in Training License (E.I.T), Sara is on the fast track to gaining her Professional Engineering License (P.E.) and has quickly established herself as one of the area’s most promising young engineers.

Roger Keating, PE, Director of Engineering and Sara’s supervisor recalls, “Five years ago when Sara was a Chazen intern we knew we had found someone special. Her eagerness to learn, her organizational skills and her fun and positive attitude stood out; it was clear she would become one of our rising stars. As a ‘Chazen grown’ employee we often recommend Sara as one to teach entry level employees the ‘Chazen Way.’ From day one she has accepted every challenge presented to her, embraced every opportunity to learn and continually welcomed new responsibilities. “

From a project standpoint, Sara has been the primary engineer on several complex projects in NY including Phase 2 of the Capital Roots Urban Grow Center in Troy, Hunter Peaks Subdivision in Hunter, and the Union College Science and Engineering Building in Schenectady. In addition to design work, Sara serves as the stormwater design reviewer for development projects, as part of Chazen’s role as the Town Designated Engineer for the Cities of Rye and New Rochelle. She has proven to be a talented engineer, requiring little direction to accomplish desired objectives and provides quality service to clients. Needing final approval from senior engineers as she works towards her P.E., her work has been that of consistent high quality.

Understanding the importance of giving back and eager to make an impact, Sara is a dedicated volunteer that applies her knowledge and skills to help the future of engineering and her community. She has used her own experiences to engage young students and introduce them to the science and engineering professions. Additionally, she has used her skills to give back and help those in need right in our local community. A few of her volunteer projects are Ace Mentorship Program, guest speaker Lansingburgh High School, Vex Robotics competition volunteer and CANstruction.
Crossing over the Mohawk River to and from Saratoga and Albany Counties via NYS Route 32 is a daily ritual for thousands of motorists in Upstate New York. Built as a Depression-era public works project by then-Governor Franklin D. Roosevelt, the 682-foot-long, seven-span, earth-filled concrete spandrel structure, with its distinctive 1930s architecture, had become structurally deficient. With rehabilitation infeasible due to high water levels, New York State Department of Transportation (NYSDOT) commissioned a replacement bridge with special aesthetics capturing the spirit of the original.

Collaborating across various consultant regional offices within a short timeframe, multiple engineer teams worked concurrently to design all the components necessary to construct the 800-foot-long, five-span, multi-girder replacement bridge. In addition, the replacement project added improved pedestrian facilities, new curbs and sidewalks, closed drainage improvements, improved access at adjacent commercial sites, and streetscaping and landscaping features. Fitted with New York State Historic Preservation Office (NYSHPO)-approved aesthetic treatments, the new bridge carries two southbound lanes, one northbound lane, two sidewalks, and several utilities across the river.

**Entrant’s Role:** CHA Consulting, Inc. (CHA), with subconsultant M.J. Engineering and Land Surveying, P.C., completed design and construction support, including surveying, right-of-way mapping, preliminary highway and bridge design, hydraulic evaluation, environmental studies and permitting, landscape architecture, hazardous waste screening and asbestos survey, traffic engineering, design report preparation, and public involvement. CHA coordinated with NYSHPO due to the structure’s eligibility to be designated as a historic place, the Town of Waterford Historic District, and the proximity of the historic Erie Canal.

**Construction Innovation:** Preliminary design began in mid-November 2013, with the concept approved by NYSDOT a month later. Final plans were required within four months from approval of preliminary plans. This did not allow enough time during the winter to get geotechnical borings and provide recommendations for the foundations. Therefore, CHA completed the final design based on reasonable assumptions, revising it once geotechnical information was available. While the shaft size and structural detailing was set and maintained, the depth of the embedment into rock was adjusted.

Two alignments were identified for the replacement structure over the Mohawk River. One on the same alignment with a temporary detour structure to carry traffic during construction. The other was offline construction, parallel to the existing alignment, allowing the existing bridge to accommodate traffic during construction. The team selected an offline alignment after receiving public input and coordinating with the City of Cohoes and Town of Waterford and their respective plans.
Capital District Chapter has expanded to include northern counties as noted on page 1.

**Quote of the Day**

Successful engineering is all about understanding how things break or fail.

*Henry Petroski*
Copy and paste to your browser—Dilbert—The Curse of the Engineer. If you haven’t seen it, you will get a laugh. If you have, you will get another.

https://www.youtube.com/watch?v=g8vHgh6oM0
Sponsorship Opportunities for 2020

2020 Capital District Chapter

New York State Society of Professional Engineering Annual Sponsorship Program

We invite you to become an annual sponsor of our Scholarship Program. Every year we provide scholarships to outstanding area high school seniors who will begin their engineering studies at an approved engineering school. We offer three levels of sponsorship in our newsletter, engineering seminars and our web page.

For more information, please contact Mark Ritter (markritter@nycap.rr.com) or 518 668 2985

Small Add (business card size) $150/year
Half Page Add $450/year
Full Page Add $600/year

SPONSORSHIP APPLICATION

Company Name ________________________________________________________________
Contact Person ________________________________________________________________
Address __________________________________________ E-mail ____________________________
City ___________________ State _______ Zip_______ Telephone__________________________
Company Website ______________________________________________________________

Please make check out to Capital District Chapter NYSSPE, and mail to Mark Ritter at 236 Konci Terrace, Lake George, NY 12845

e-mail confirmation and graphics to markritter@nycap.rr.com
Encourage a colleague to join NYSSPE/NSPE today

To join go to NSPE.ORG

NSPE/NYSSPE membership gives engineers the tools and services they need to be better informed and better connected within their professional community.

- NSPE Members receive numerous PDHs on line free (approved in New York)
- NYSSPE members receive discounts on day long PDH seminars
- Local Chapter provides additional local PDHs at discounted membership rate

ADDITIONAL BENEFITS

Advocacy & Outreach

NSPE AND NYSSPE projects a powerful voice advocating the interests of the engineering profession

Legislative updates

NYSSPE provides updates of legislative updates with videos

Additional Continual Educational Opportunities

NY State Day Long PDH sessions with membership discounts

Connection with Engineering Community

Membership provides the opportunity to provide community service and connect with colleagues, clients and vendors.