President’s Message
Mark Ritter, P.E.

It looks like spring will be arriving shortly and hopefully we will be able to transition from cold weather to warm weather activities. We currently have applications for our 2017 Scholarship on our website. Every year, we present scholarships to area high schools seniors who are about to begin their engineering studies. If you have a family member or acquaintance who is a high school senior, encourage them to apply. We will be selecting the recipients over the next few months and honoring our winners at a special June presentation.

We have completed our February local Mathcounts and the state completion will be March 18th at RPI. Let me know if you are interested in joining me and other members to volunteer at this event where there will be hundreds of participants.

On May 5th we will be having our 21st annual spring scholarship golf tournament at Kingsbury National Golf Course in Hudson Falls, NY. The tournament format is a four person scramble with flights grouped by handicap to provide golfers of all levels the opportunity to place in their flight. In addition to the golf prizes we will have prize drawings where all golfers will have a chance to win. We will have hole in one contests on all par 3s with a $10,000 prize on the second hole and valuable prizes on all other par 3s. In addition to these items this year we will have an added bonus. The new owners of Kingsbury National will provide a certificate for greens fees for a round (with mandatory purchase of a cart) to all non-member participants. In addition, to supporting our scholarship efforts, it is a great afternoon of fun to start your weekend.

Our membership benefits have continued to be increased and we now have 11 free pdhs offered by NSPE included in our membership (approved in New York State). In addition, NYSSPE offers discounts on day long pdh sessions and our chapter offers greatly discounted pdh sessions. In the newsletter I have also pointed out that new members can join for a special rate and begin to receive these benefits immediately. I encourage you to point out these benefits to any non-member.

Sincerely,
Mark
markritter@nycap.rr.com

## Calendar of Events

For additional NSPE events occurring at the state level: [https://www.nysspe.org/upcoming-events](https://www.nysspe.org/upcoming-events)

<table>
<thead>
<tr>
<th>Date</th>
<th>Item</th>
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<tr>
<td>Mar-2017</td>
<td>Chapter Board Meeting</td>
<td>Atlantic Testing Laboratories, 22 Corporate Park, Dr, Clifton Park, NY</td>
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<td>Mar 8</td>
<td>State Award Nomination</td>
<td>Nominations Due Date</td>
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<td>Mar 10</td>
<td>Chapter Seminar</td>
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<td>Mar 15</td>
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<td>Mathcounts Competition at RPI (Troy)</td>
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<td>Chapter Board Meeting</td>
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<td>Chapter Seminar</td>
<td>Concrete Restoration and Repair</td>
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<td>May-2017</td>
<td>Chapter Golf Tourney</td>
<td>Spring Golf Tournament, Kingsbury National Golf Club, Hudson Falls</td>
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<tr>
<td>May 5</td>
<td>Chapter Board Meeting</td>
<td>NYSSPE Office, 6 Airline Drive, Albany NY 12205</td>
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<tr>
<td>TBD</td>
<td>Chapter Seminar</td>
<td>Mohawk Valley Gateway Overlook Pedestrian Bridge Project</td>
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<tr>
<td>Jun-2017</td>
<td>Chapter Event</td>
<td>Scholarship Awards and Chapter Recognition Dinner</td>
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<td>June TBD</td>
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<tr>
<td>June 7-9</td>
<td>NYS Annual Meeting</td>
<td>NYSSPE Annual Conference, Awards, Crown Plaza, White Plains NY</td>
</tr>
</tbody>
</table>

**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.
NYSSPE Scholarship Golf Tournament Notice

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.

This year we are holding our Twenty-First Annual Spring Golf Tournament on May 5th at Kingsbury National Golf Course in Hudson Falls, NY. We depend on businesses like yours for a successful tournament. There are numerous ways that you can help support this effort:

- Individual hole sponsorships are available for $150. This will provide a display of a sign with your company name on a hole as well as recognition at the awards portion of the tournament.

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

- Sponsorship of individual golfers or teams from your business. Registration fee is $85/golfer and includes range balls, golf, cart and lunch as well as numerous prizes. In addition, this year Kingsbury National Golf Course will provide a certificate for 18 hole greens fee (with mandatory purchase of cart) to every non-member golfer.

I appreciate your consideration of supporting our tournament. Let me know if you have any questions.

Regards,

Mark Ritter, P.E.
Co-Chairman, Spring Golf Tournament
Capital District Chapter, NYSSPE
236 Konci Terrace
TWENTY-FIRST ANNUAL
NYSSPE ENGINEERING SCHOLARSHIP TOURNAMENT
CAPITAL DISTRICT CHAPTER NYSSPE
KINGSBURY NATIONAL GOLF CLUB
MAY 5, 2017
1 PM SHOTGUN START
ENTRY FEE $85 PER PLAYER MAXIMUM 32 TEAMS (128 PLAYERS)
Soft Spikes Only- Entry Must be received by April 21st
FORMAT 4 PERSON SCRAMBLE (MINIMUM 3 DRIVES PER PLAYER)
FREE RANGE BALLS* LUNCH *GOLF CART* PRIZES*
HOLE IN ONE CONTESTS SPONSORED BY
Michael K. Fisher, P.E.
Engineering Services for Industry
1 Cherry Hill Ct.
Clifton Park, NY 12065-1115
Telephone (518) 877 7608 voice
Cell Phone (518) 852 6368
$10,000 HOLE IN ONE CONTEST (FOR AMATEURS) HOLE #2
HOLE IN ONE CONTEST ON ALL PAR THREES
CLOSEST TO THE PIN ON ALL PAR THREES
KINGSBURY NATIONAL WILL PROVIDE A CERTIFICATE
FOR 18 HOLE GREENS FEES (WITH MANDATORY PURCHASE OF CART) FOR EVERY NONMEMBER ADDITIONAL PRIZE DRAWINGS FOR ALL PLAYERS

MAKE CHECKS PAYABLE TO:
FEE (FOUNDATION FOR ENGINEERING EDUCATION)

SEND CHECKS TO
MARK RITTER
236 KONCI TERRACE
LAKE GEORGE, NY 12845
PHONE (518) 668 2985
E-MAIL: markritter@rycap.rr.com

TEAM MEMBERS

NAME________________________ PHONE NO.________
E-MAIL ADDRESS____________________
USGA INDEX______ OR HANDICAP (KINGSWOOD SLOPE 124)______

NAME________________________ PHONE NO.________
E-MAIL ADDRESS____________________
USGA INDEX______ OR HANDICAP (KINGSWOOD SLOPE 124)______

NAME________________________ PHONE NO.________
E-MAIL ADDRESS____________________
USGA INDEX______ OR HANDICAP (KINGSWOOD SLOPE 124)______

NAME________________________ PHONE NO.________
E-MAIL ADDRESS____________________
USGA INDEX______ OR HANDICAP (KINGSWOOD SLOPE 124)______
Subject: Hole Sponsorship Form for Twenty-First Annual NYSSPE Spring Scholarship Golf 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 Twenty-First Annual Spring Golf Tournament will be on May 5th at Kingsbury National Golf Course in Hudson Falls, NY.

Individual hole sponsorships are $150. This will provide a display of 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.

Please provide the following information

Company Name ____________________________________________

Company Address _________________________________________

Company contact information. (Phone number and/or web information ____________________________________________

_______________________________________________________

Make check payable to (F.E.E.) Foundation for Engineering Education
Send camera ready art work (if applicable) to markritter@nycap.rr.com.

We appreciate your support of our tournament. Let me know if you have any questions.

Regards

Mark Ritter, P.E.
Co-Chairman, Spring Golf Tournament
Capital District Chapter, NYSSPE
236 Konci Terrace
Lake George, NY 12845
518 668 2985 Home
markritter@nycap.rr.com
Mathcounts

The Capital District’s 34th MATHCOUNTS Chapter Competition was held on February 4, 2017 at the GE Global Research Center in Niskayuna. There were (15) schools with (120) students that competed. Photos of the event & competition results are available for viewing on our website:

http://www.capdistpe.org/FLDWEB/MATHCOUNTS.htm

1st Place School
Iroquois Middle School
- Suhao Jeffrey Huang
- Christine Lee
- Sarah Vernooy
- Rowe Chen Zhong

2nd Place School
Acadia Middle School
- Forrest Gao
- Andrew Tao
- Yicheng Huang
- Aryadeepta De

3rd Place School
Shaker Junior High School
- Dani Bhashyam
- Shashank Garg
- Andrew Huang
- Harry Shen

The Top (2) students not on a qualifying team were Ian Zhang from Farnsworth Middle School & Alex Li from The Albany Academies. These (3) schools & (2) individuals will compete at the MATHCOUNTS State Competition on March 18th, 2017 at RPI.

Special Thanks:
We would like to express our sincerest appreciation and gratitude to GE Global Research Center & the GE Employee Volunteers for the donation of their facility, time, food, competition t-shirts, refreshments & volunteer efforts in hosting this important competition.

CDCNYSSPE Co-Chairpersons:
David J. Hansen, PE & Julie Barown, PE

General Electric Coordinator:
Vrinda Rajiv

Competition Coordinator:
Martin J. Zanghi, PStatisticians:
Paul Adel, PE

Grading Coordinator:
Kathy Ervolina
Volunteer Coordinator:  
Susan DeSimone, PE

Press Coordinator:  
Jim Galanreau, PE

Program & Certificates:  
Anne Garrity, PE

Grading Room Volunteers:  
Don Aulenbach, Ed Brown, Christopher Cornwell, John Dempsey, Sal Ervolina, Peter Faith, Mike Franchell, Carol Franchell, Dale Lombardo, Holger Lukas, Gerard Marciano, Patricia Marciano, Fred Mastroianni, Catherine Miller, Elizabeth Newbold, Sid Newbold, Aseem Kumar, Priyanka Kumar, Mary O’Keeffe, Robert Phaneuf, Don Porterfield, Alexandra Schmidt, Josiah Schmidt, Kateri Skinner, Wally Waidelich, Marie Waidelich

Local Sponsors:  
The GE Company, GE Volunteers, Chobani, Price Chopper, & the Capital District Chapter of the New York State Society of Professional Engineers (CDCNYSSPE).

Founding Sponsors:  
The National Society of Professional Engineers (NSPE), the National Council of Teachers of Mathematics, and the CNA Foundation.

Title Sponsor:  
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National Sponsors:  

Executive Sponsors:  
General Motors Foundation

Official Sponsors:  

Associate Sponsors:  
Pricewater Coopers, LLP.
On Saturday February 4th over 50 individuals from six local schools, Greenwich Central School, St. Mary’s St. Alphonsus in Glens Falls, Maple Avenue School in Saratoga, Corinth Middle School, Augustine Classical Academy and Schuylerville Junior High School participated in the Tri County Mathcounts competition at the SUNY Adirondack campus in Queensbury, NY. The top three teams earned their way to the March 18th State Mathcounts Competition on at the RPI campus in Troy, NY, The Chapter received valuable assistance from the local GE Volunteers and the Adirondack Chapter of the American Association of University Women.

The top teams were:
**First Place** - Saratoga Maple Avenue School pictured left to right: Ethan Murnan, Neil Gidwani, Jonathan D’Alonzo, Jason Zheng, Max Su, Coach Jennifer Gervasio
**Second Place** - Schuylerville Junior High School
**Third Place** - Greenwich Central School

The top three individuals were awarded prizes supplied by our Capital District Chapter and SUNY Adirondack. The top three individuals were

**First Place**: Max Su, Maple Avenue School, Saratoga
**Second Place**: Cody Belden, Schuylerville Junior High School
**Third Place**: Jason Zheng, Maple Avenue School, Saratoga
“The Future City© Competition is a national program sponsored by DiscoverE (formally National Engineers Week). The mission of the Future City© Competition is to provide a fun and exciting educational engineering program for 6th, 7th and 8th grade students that combines a stimulating engineering challenge with a “hands-on” application to present their vision of a city of the future.”

“The Future City© project has five phases: to plan, design, build, write and present a city of the future. Each competing team works with a guiding teacher and engineer-mentor to complete the project. The team is represented by three students during the presentation phase of the Regional completion”.

More than 27 teams and approximately 400 students participated for a chance for the top team to represent the Capital District in the National Future City Competition© in Washington DC.

The top five teams were:

1. New Lebanon Jr/Sr High School (Renswyck)
2. Richard H O'Rourke Middle School (Quintus Spartis)
3. Flood Brook School (Hydropolis)
4. Broadalbin-Perth Middle School (Neo-hydrotopia)
5. Academy of the Holy Names (Hotep Phoenix)
E-Week is held to create awareness of the contributions of engineers to society. This year Eweek was held at Albany Marriott on 189 Wolf Rd, Albany, NY. This year’s attendance was a record high of 908 online registrants. The Capital District E-Week’s focus is to promote the Engineering Profession. Additionally, this is a great opportunity for licensed professionals to not only learn novel and unique education presentations that can earn up to 10 PDH (Professional Development Hour) in two days, but also to network with industry experts and leaders and get first-hand knowledge of innovative applications of engineering.

This year three of our Capital District members presented important topics at Eweek. Mr. Nikhil Bodhankar (Vice-President) presented on Health Effects of Artificial Lighting: Research and Applications. He presented correlation between human circadian rhythm and artificial lighting and discussed new trends and recommendations in human centric lighting including an overview of current lighting technologies and its benefits to occupants in different work setting. He covered fundamentals on basics of light and biology of human circadian cycle that help understand why this topic has become even more important in today’s mostly indoor work environment setting. Mr. Bodhankar addressed the confusion created by a memo issued by the American Medical Association regarding the use of color in LED Lighting. Mr. Bodhankar explained that with the advent of LED technology a simple reference to only color is not telling the complete picture. Therefore the report issued by the medical association carries deficiencies. He explained that a SPD (Spectral Power Distribution) of a LED fixture should be produced by a manufacturer that would give a better metric and evaluation for what impact the LED fixture would have on rendering. He discussed BUG rating that should be used to select appropriate lighting fixtures catered to specific applications.

Ms. Julie Barown (Board member) presented on two topics. Her first topic was titled: Sewer Systems: Construction Considerations where she explained various aspects of effluent sewer construction and how they compare to grinder and gravity sewer requirements in areas small lots and existing streets, homes, and businesses.

Ms. Barown’s second presentation was titled “An Economical, Low-Impact Wastewater Collection System” where she provided detailed information on funding sources, the approval process, as well as capital and operational costs for the Vero Beach Service Area Extension project. Vero Beach chose a low-pressure effluent sewer to provide for low capital and operation and maintenance (O&M) costs, reduce the impact of infiltration on the collection and treatment system and minimize construction impacts. Approximately 1,500 homes in the area had septic systems, many of which were antiquated and failing. Experts believed these systems were contributing to the environmental degradation of the lagoon and its
wildlife habitat.

**Mr. Arthur Depoian** (Chapter member) presented on “Synchronous Condensers Applications on Electric Transmission Systems” where he explained Synchronous condenser applications on high-voltage electric transmission systems that have grown rapidly over the past decade. The presentation included an overview of the key considerations to optimize both performance on the grid as well as long term operational and maintenance costs.
Notable News is a Forum for members to share stories, projects, tips and other items of interest with the rest of the membership. Please email any content you would like to share to Darren Tracy (Darren@Westbranchinc.com).

- The Capital District Chapter of NYS Society of Professional Engineers welcomes Julia Barown of Orenco Systems, Inc. as a new board member!

Quote of the Day -

It is not what you don’t know that will get you in trouble. It is what you don’t know that ain’t so. – Mark Twain
Be sure to support our 2017 Sponsors!

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- Environmental management assessment and systems
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- Geotechnical infrastructure/ foundation engineering
- Brownfields redevelopment planning and design
- Watershed and stormwater management
- Air quality permitting, compliance and optimization
- Building health sciences
- Risk Assessment and Applied Toxicology

26 Century Hill Drive, Suite 205, Latham, New York 12110
518-785-0800 | swelt@geosyntec.com

Susan B. Welt, M.P.H., P.E.
Sr. Environmental Engineer

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ADVERTISING AND SPONSORSHIP OPPORTUNITIES - NOW ACCEPTING SPONSORS FOR 2018

Sponsorship for next year $150 (business card size)
See the opportunities available at the Chapter website: SPONSORSHIP PROGRAM

Sponsor benefits: Event and newsletter ads, website links, opportunities for posting job openings, and submitting articles for use within the Capital District Chapter of the NYSSPE newsletter and website (subject to editorial review and approval). All newsletter sponsor revenues are directed towards scholarships for students entering the engineering profession.

If you are interested in advertising to our nearly 2000-strong membership, please contact
Mark Ritter P.E., at markriter@nycap.rr.com

Disclaimer: The presentation of advertising, sponsorships, event listings, logos, website links, or other information by the Capital District Chapter of the New York State Society of Professional Engineers does not necessarily constitute an endorsement of the companies, persons, entities, courses, products, or services so presented.

Want to sponsor? Great exposure to all our members. Full page is $600/year, ½ page $450/year. Contact Mark Ritter at markriter@nycap.rr.com or Steve Moore P.E. at Smoore@atlanticTesting.com.
Incoming President’s Message

As your new Chapter President, I’d like to extend my thanks to the Board of Directors and the membership for giving me the opportunity to serve for the 2017-2019 term. I’d also like to congratulate Nikhil Bodhankar, P.E. as the new President-Elect, and welcome Nancy Garry, P.E. as our newest member to the Board of Directors.

I first became active with the Capital District Chapter in 2008 and shortly after joining the Chapter was elected to the Board of Directors. I’ve been very involved with the Chapter since joining and have found the experience to be extremely rewarding. I also feel very strongly about one of our primary goals of NYSSPE at the state level, and NSPE at the national level, which is the protection of the License. The NYSSPE in conjunction with NSPE are the only professional organizations that advocate directly on behalf of all licensed professional engineers, regardless of engineering discipline.

On June 15th the Chapter held our annual scholarship and awards banquet. We handed out a total of $6,000 in scholarships this year to 4 local area high school students that will be pursuing a career in engineering (see article for more information). In addition to the protection of the License, I’m also a strong believer in the value of STEM, and getting the younger generations involved in engineering. By awarding these scholarships, this helps to provide some of our most gifted students pursue their dreams and ambitions in the engineering field. Our hope is that someday they will become licensed engineers and join the local chapter of NSPE, wherever their careers take them.

To support our annual scholarship program, we have 2 golf tournaments that are the major source for the scholarship revenues. We had our annual spring golf tournament on May 12th at the Kingsbury Golf Club in Hudson Falls. We had a great turnout and I’d like to thanks all those that came out and contributed to a successful outing. I’d also like to invite everyone to the fall golf outing on September 15th at Eagle Crest Golf Club in Clifton Park, additional information to follow shortly.

Finally I’d like to give a special thank you to Mark Ritter, the Chapter’s Immediate Past President. Mark (along with all the other past presidents) has provided me with a solid foundation to keep the Chapter moving in the right direction. Thanks Mark!

Sincerely,

Steven N. Moore, P.E.
### Outgoing President’s Message

I want to thank the Chapter for the opportunity to serve as your President for the last two years. I hope that I have provided the service that you desire from your President. In addition, I want to thank the board members for their support. Anything that has been accomplished would not have possible without the support and commitment of our board members.

Over the last few months we have been able to select and award our annual scholarships, elect your new officers, raise money for the scholarship program with our spring golf tournament and participate in the annual June NYSSPE meeting. I know Steve Moore will do an excellent job as your new President and encourage you to support Steve in the many programs we will be undertaking in the new year and to let Steve know of any suggestions you might have for the organization. I hope you all have a great summer.

Mark Ritter, P.E.

### Calendar of Events

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<td>Oct. 2017</td>
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<tr>
<td>Oct TBD</td>
<td>Chapter Event</td>
<td>Mohawk Valley Gateway Overlook Site Tour/Seminar, Amsterdam</td>
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<td>Jan. 2018</td>
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<tr>
<td>Jan. 13</td>
<td>Hockey Game</td>
<td>Annual RPI Engineers vs. Tech’s Golden Knights</td>
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NYSSPE Scholarship Golf Tournament Notice

Summer has just arrived, but it’s already time to mark your calendar for our annual Fall Scholarship Golf Tournament. In addition to a fun filled day, our Golf Tournaments are the major sources of funding for our annual Engineering Scholarship Program.

The tournament will again be held at the Eagle Crest Golf Club in Clifton Park on Friday September 15th. The tournament is a four person team scramble.

In addition, there will be prizes for closest to the pin on all par 3s as well as two longest drive hole competitions. Our members can help support this tournament in numerous ways. They can form a team of coworkers or clients, sponsor a hole, donate prizes and also pass on information on the tournament to help generate interest for all of these activities among their associates.

A registration form and hole sponsorship follow in this newsletter. If anyone has any questions on the tournament, feel free to contact Doug Cole per his contact information on the following form.

Douglas P. Cole, P.E.
Chairman, Fall Golf Tournament
Registration Form

34th ANNUAL
ENGINEERING SCHOLARSHIP FALL TOURNAMENT
CAPITAL DISTRICT CHAPTER NYSSPE
EAGLE CREST GOLF CLUB
1004 NY Route 146A, Clifton Park NY 12065
SEPTEMBER 15, 2017
TEE TIMES STARTING AT 1 PM WILL BE ASSIGNED
ENTRY FEE $90 PER PLAYER
Soft Spikes Only- Entry Must be received by September 1st
FORMAT 4 PERSON SCRAMBLE (MINIMUM 3 DRIVES PER PLAYER)
*GOLF*CART*PRIZES* DINNER*
CLOSEST TO THE PIN ON ALL PAR THREES

TEAM MEMBERS

NAME______________________________PHONE NO.__________
E-MAIL ADDRESS______________________________
USGA INDEX_______OR HANDICAP (EAGLE CREST SLOPE 116)_______

NAME______________________________PHONE NO.__________
E-MAIL ADDRESS______________________________
USGA INDEX_______OR HANDICAP (EAGLE CREST SLOPE 116)_______

NAME______________________________PHONE NO.__________
E-MAIL ADDRESS______________________________
USGA INDEX_______OR HANDICAP (EAGLE CREST SLOPE 116)_______

NAME______________________________PHONE NO.__________
E-MAIL ADDRESS______________________________
USGA INDEX_______OR HANDICAP (EAGLE CREST SLOPE 116)_______

MAKE CHECKS PAYABLE TO:
FEE (FOUNDATION FOR ENGINEERING EDUCATION)
SEND CHECKS TO:
DOUGLAS COLE
97 STACEY CREST DRIVE
SCHENECTADY, NY 12306
PHONE (518) 421-2329
E-MAIL : dcole@primeeng.com
Subject: Hole Sponsorship Form for Thirty Fourth Annual NYSSPE Fall Scholarship Golf 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 Thirty Fouth Annual Fall Golf Tournament will be on September 15th at the Eagle Crest Golf Course in Clifton Park, NY.

Individual hole sponsorships are $150. This will provide a display of 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.

Please provide the following information

Company Name _____________________________________

Company Address ___________________________________

Company contact information. (Phone number and/or web information)

_________________________________________________________________________________

Make check payable to (F.E.E.) Foundation for Engineering Education Send camera ready art work (if applicable) to dcole@primeeng.com.

We appreciate your support of our tournament. Let me know if you have any questions.

Regards

Doug Cole, P.E.
Chairman, Fall Golf Tournament
Capital District Chapter, NYSSPE
97 Stacey Crest Drive
Schenectady, NY 12306
518-421-2329
dcole@primeeng.com
Spring Golf Results

On Friday May 12th 58 golfers enjoyed a fantastic afternoon of golf under a bright blue sky. The event was not only enjoyable, but thanks to the support of the golfers, prize donors and hole sponsors, we were able to raise over $3600 for our scholarship program. Please reciprocate by supporting the companies that have provided their support for the tournament. Please make a mental note to participate in next year’s Spring tournament the second Friday in May.

Mark Ritter and Darren Tracy  
Co-Chair Spring Golf Tournament

We Thank Our Sponsors

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ESMI of New York  
GPI/Greenman-Pedersen  
Golde Engineering  
Harlan McGee  
Hour Electric  
Koester Associates  
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HOLE IN ONE CONTESTS SPONSOR  
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PRIZE DONORS
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Atlantic Testing Laboratories, Inc, ATL  
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Cronin’s Golf Resort  
Dick’s Sporting Goods  
Gore Mountain Ski Area  
Hiland Golf Club  
Kingswood Golf Course  
NBT Bank  
Queensbury Golf Course  
Simpson Strong-Tie  
Schneider Electric  
Sprinkles Ice Cream Shoppe  
Stantec  
The Sagamore Golf Resort

Photos by Doug Cole PE
Each year our Chapter presents scholarship awards to outstanding area high school students planning to attend an ABET accredited college engineering program.

The primary source of funding for these scholarships are the Fall and Spring Chapter Golf outings, which is supported by the golfers, hole sponsors, and prize donors and our web and newsletter advertisers. The 2017 scholarship award program has once again been generously funded allowing the Chapter to provide modest financial support to deserving students from high schools in the areas in our Chapter. This support has allowed us to provide scholarship awards totaling $6,000.

The scholarship award program attracted 45 applicants from well-rounded, outstanding high school senior applicants. Four candidates stood out from the applicant pool with extraordinary academic performance and a clear interest in engineering studies. Our four winners this year are:

- Molly Lang (Colonie Central High School)
- Katharine Schassler (Chatham High School)
- Victoria Servetas (Colonie Central High School)
- Valentine Starnes (Saratoga Springs High School)

(left to right— Steve Moore PE, Paul Adel PE, Valentine Starnes, Mixian Liang, Karen Schassler, missing is Molly Lang)
Here are a few of the exceptional achievements of each of our scholarship award winners:

**Molly Lang**
- Maintained 97.2 GPA in a curriculum that included 5 AP/College level math/science classes, and 5 AP/College level non-math/science classes.
  - Coursework included computer aided design (AutoCAD) in 9th grade, computer integrated manufacturing in 10th grade, as well as more recently, principles of engineering, engineering design and development, digital electronics, molecular biology.
- Received following recognition
  - RIT (Computing Medal Award and Scholarship)
  - National Honor Society for GPA and volunteer work
  - Placed Third at Capital Region STEAM Expo
  - Chamber Orchestra NYSSMA All State Solo
- President of SWENEXT Club (Society of Women Engineers Outreach)
- Involved in STEM club
- Teaching Chinese language in Albany Chinese School and in home.

**Katharine Schassler**
- Maintained a cumulative 99.7 GPA through the first half of her senior year at Chatham HS, and a combined SAT score of 1480 out of 1600 (99th percentile in both math and reading/writing).
  - Coursework included computer programming and principles of engineering, digital electronics, Environmental science, and Civil Engineering and Architecture.
- Extensive extracurricular activities
  - Math League, Ecology club, student government, acting, track and field and tennis.
  - Co-editor of the school Art & Literary Magazine.
- Received following recognition
  - RPI (Medalist Honor)
  - National Honor Society
  - Horatio Alger State and AP scholar.

**Valentine Starnes**
- Maintained 97.5 GPA in a curriculum that included 4 AP/College level math and science classes, 4 AP/college level non-math/science classes.
  - Coursework included Design and Drawing for Production in 9th grade, Digital Electronics in 10th grade, and more recently, computer integrated manufacturing, principles of engineering, engineering design and development, and software engineering.
- Extensive extracurricular activities:
  - President of the Math Club, participated in debate club and key club, and director of a program for educating young engineers.
  - Received a $2000 grant to create a program for giving middle school students the opportunity to tackle engineering design challenges.
  - Captain of the varsity Soccer team.
  - Participates in local and national track events.

**Victoria Servetas** (continued on next page)
Victoria Servetas
- Maintained a 95.1 GPA through the first half of her senior year in a curriculum included 6 AP and college level math and science classes, and another 6 AP and college non-math/science classes. Coursework included CAD/AutoCAD in 9th grade, Computer integrated manufacturing and digital electronics in 10th grade, principles of engineering, and civil engineering and architecture in 11th grade. This year she took engineering design and development, and in preparation for her intended studies in biomedical engineering, she took anatomy and physiology.
- Victoria scored 760 out of 800 on the math SAT exam.
- She received honors and recognition from RIT, Global Foundries, and National Honors Society.
- Extensive Extracurricular activities:
  - Captain of the Colonie HS women’s lacrosse team
  - Played on the volleyball team.
  - Participated in STEAM Expo, and Key Club.
  - Engaged in a variety of volunteer activities and worked a variety of jobs during the school year and summer breaks.

Mark Ritter and Paul Adel
Scholarship Co-Chairs

Notable News

The Capital District Chapter of NYS Society of Professional Engineers welcomes Nancy Garry of CSP as a new board member!

Nancy Garry, PE, CSP, Project Manager
Ms. Garry works for HRP Associates, INC, is a registered Professional Engineer and Certified Safety Professional with 20 years experience in environmental, OSHA compliance, due diligence projects, and health and safety projects. Ms. Garry managed HRP’s three year NYSOGS Environmental Remediation design and seven year NYSDEC on-call Standby Engineering Contract and was responsible for all aspects of the contract. Ms. Garry also works on various compliance, OSHA, and health & safety tasks as related to industrial clients. Projects include SWPPP, SPCC, occupational exposure assessments, and various OSHA compliance programs. Ms. Garry conducts client training for RCRA, DOT, IATA and various OSHA topics.

Quote of the Day -
"Education is not the filling of a pail, but a lighting of a fire." -William Butler Yates

Notable News is a Forum for members to share stories, projects, tips and other items of interest with the rest of the membership. Please email any content you would like to share to Darren Tracy (Darren@Westbranchinc.com).
**Project:** Waterproof Grand Staircase between Cultural Education Center and Empire State Plaza

**Engineer:** Ryan Biggs Clark Davis Engineering & Surveying, PC

**Description:**

The Grand Stair was constructed as part of the Governor Nelson A. Rockefeller Empire State Plaza complex, connecting the south end of the Main Platform to the Cultural Education Center (CEC). The structure has been in continuous service since the mid-1970s, providing pedestrian access over Madison Avenue and outdoor seating for concerts, cultural events, and 4th of July fireworks at the Plaza. The rehabilitation of the Grand Stair involved complete replacement of the subsurface waterproofing system and in-place repair of the structural components. This included removal and resetting over 2,300 existing stone units in a carefully sequenced manner to precisely realign each stone while limiting the impact to adjacent masonry cladding and existing finishes and maintaining traffic along heavily traveled Madison Avenue below.
Even though it has been a couple of months since the 2017 Future City Competition took place at Proctors Theatre, we wanted to take a moment to say THANK YOU. Your support and generosity allows us to run a top-notch program that has positively affected many students in the Capital District.

This year’s competition marked the 25th anniversary of this program at the National level, which over the years has become a highly recognized STEM program as shown through its many accomplishments. Locally, we celebrated our 16th year and it was a ground-breaking year for us in many ways as well. This year, Capital District Engineer Week’s sponsorship helped…

- Encourage and inspire 27 local teams of students to continue in their education and pursue careers in STEM. This year’s competition was the largest competition in our region to date. The number of teams as well as the number of students who participated made this year very exciting to be a part of.

- Provide an alumni scholarship to Jordyn Helfrich, who competed in the Future City Competition as a member of the Farnsworth Middle School team (Guilderland Central School District). Jordyn is looking forward to applying what she learned from the Future City Competition in her chemical engineering studies, with a focus on petroleum, at the Colorado School of Mines this fall.

- Provide an opportunity for 400 local students to plan, design, and create a city of the future that addressed the real-world issue of public space use. As mentioned above, we had nearly 100 more students participate in the program this year than we have ever had participate in our regional competition before.

- Gain national recognition for some of our local teams. The team from New Lebanon Jr./Sr. High School was featured in MUSE Magazine (Cricket Media) last summer where their experience in the program was showcased. The team from William S. Hackett Middle School was awarded a $500 grant in November through the Henry C. Turner Prize for Innovation in Construction for advancing the process of construction through STEM in an underserved community.

- Provide outreach to gather interest from more schools and organizations in the area. This year, we had three new schools/organizations participate, contributing a total of 10 new teams, one of which came from as far away as Syracuse, NY.

- Support a tutorial held at the Albany Heritage Area Visitors Center where the students got to listen to experts speak about what brownfields and public spaces are, the different ways properties can be cleaned up and redeveloped, and examples of local public spaces and what plans are being considered to continue redeveloping downtown Albany.

- Recognize the hard work put forth by participating teams in providing nearly 40 monetary awards, including the "1st Place" award, sponsored by you and your organization, which was awarded to the New Lebanon Jr./Sr. High School.

- Financially support our 1st Place team from the Capital District, New Lebanon Jr./Sr. High School, to be able to attend the National Competition in Washington D.C. This year the New Lebanon Jr./Sr. High School team came in 14th out of 43 teams at the National Competition.

As you can see, there is a lot that happened this year and we expect to do just as much next year, if not more. We just recently attended an event held by the NYS Masters Teacher Program, which resulted in two new teams registering for next year's competition. As of today, we already have eight teams signed up for next year and this school year hasn't even ended.

We always greatly appreciate you and your organization inviting us to EWeek. I know that the teachers and students who are able to attend really enjoy the experience and exposure to the engineering community. I also received word that CDEW will be sponsoring our competition again next year. THANK YOU so much! We all so greatly appreciate your continued support year after year.

Once again, on behalf of the entire Future City Planning Committee, Thank You for your continued support! Have a great summer!

Diane Bertok
Regional Coordinator
Capital District Future City Competition
Be sure to support our 2017 Sponsors!
ADVERTISING AND SPONSORSHIP OPPORTUNITIES - NOW ACCEPTING SPONSORS FOR 2018

Sponsorship for next year $150 (business card size)
See the opportunities available at the Chapter website: Sponsorship Program

Sponsor benefits: Event and newsletter ads, website links, opportunities for posting job openings, and submitting articles for use within the Capital District Chapter of the NYSSPE newsletter and website (subject to editorial review and approval). All newsletter sponsor revenues are directed towards scholarships for students entering the engineering profession.

If you are interested in advertising to our nearly 200-strong membership, please contact Mark Ritter P.E., at markritter@nycap.rr.com

Disclaimer: The presentation of advertising, sponsorships, event listings, logos, web site links, or other information by the Capital District Chapter of the New York State Society of Professional Engineers does not necessarily constitute an endorsement of the companies, persons, entities, courses, products, or services so presented.

Want to sponsor? Great exposure to all our members. Full page is $600/year, ½ page $450/year. Contact Mark Ritter at markritten@nycap.rr.com or Steve Moore P.E. at Smoore@atlantictesting.com.

Encourage a colleague to join NYSSPE/NSPE today

New York State Introductory Rate $220
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 11 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.

Jim Kuhn, PE, President Elect NYSSPE
Anthony Fasano, PE, Executive Director NYSSPE
Laura Peluzzi, PE, NYSSPE President
Mark Kriss, NYSPE legal counsel (standing)
President’s Message

As the snow begins to fly, my mind starts to wander…sometimes thinking about winter sports, skiing in particular; sometimes thinking about winter woes…like shoveling or snow blowing. Either way my mind tends to wander, work is slowing down (not really), and we get into a different frame of mind. The holidays are coming, and a new year is right around the corner. For the upcoming new year, we already have quite a few chapter events scheduled for our members and the engineering community.

We have a January seminar in the works on vertical turbine pump design (details to follow shortly), we have The Capital District’s 38th Celebration of National Engineers Week on February 15th & 16th at the Albany Marriott (registration is capped this year, so please register early) and we also have our annual spring and fall golf tournament dates scheduled as well (Spring Tournament on May 11th, Fall Tournament on September 20th). In addition to these chapter events, we are also sponsoring the Future City competition at The Sage Colleges on January 13th, and MATHCOUNTS at GE in Schenectady on February 3rd. For additional information on any of these or other chapter events, please feel free to contact me at smoore@atlantictesting.com.

Lastly, I’d like to invite all of the members to try to recruit additional members. If you know a Professional Engineer that is not a member, please encourage them to join. Not only is NYSSPE the only organization that advocates for the Professional Engineer across all disciplines, we sponsor multiple events throughout the year as noted above, and membership will give you access to online webinars, many of which have been approved through PIE for credit in NYS.

Sincerely,
Steven N. Moore, P.E.
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<tr>
<th>Date</th>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>Dec. 2017</td>
<td>Dec. 13 Chapter Board Meeting</td>
<td>Atlantic Testing Lab., 22 Corporate Park Drive, Clifton Park</td>
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<td>Jan. 2018 Jan. 9 Chapter Board Meeting</td>
<td>Atlantic Testing Lab., 22 Corporate Park Drive, Clifton Park</td>
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<td>Jan. 13 Hockey Game</td>
<td>Annual RPI Engineers vs. Clarkson’s Golden Knights</td>
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<td>Jan. 13 Future Cities Competition</td>
<td>The AgeFriendly City, Sage Colleges</td>
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<td>February</td>
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<td>Feb. 15-16 E-Week</td>
<td>Continuing Education, Wolf Road, Colonie</td>
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<td>March</td>
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<td>April</td>
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<td>May</td>
<td>May 11 Spring Golf Tourney</td>
<td>Kingsbury Golf Club, Hudson Falls, NY</td>
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<td>TBD Chapter Board Meeting</td>
<td>Atlantic Testing Lab., 22 Corporate Park Drive, Clifton Park</td>
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<tr>
<td>Sept.</td>
<td>Sept. 20 Fall Golf Tournament</td>
<td>Schenectady Municipal Golf Course, Schenectady</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.
Fall Golf Tourney Recap

Perfect fall golf weather greeted our participants in the 34th Annual Fall Scholarship golf tournament on Friday September 15, 2017 at Eagle Crest Golf Club in Clifton Park, NY. The course was in great shape. This year’s tournament earned approximately $1,100 for our engineering scholarship program.

This year’s results were:

First Place

- Mark Ritter
- Larry Bock
- Dave Seymour
- Jeff Seymour

Second Place

- Dan Shearer
- Randy Milano
- Chris Wallin
- George Turner

Photos by Doug Cole PE
Longest Drive
#5 Larry Bock
#13 Larry Bock

Closest to the Pin
#3 Larry Bock
#6 Bryan Jones
#14 Dan Shearer
#17 Zach Short

A special thank you goes out to Jim Galarneau who donated $100 to the Scholarship Program. We would also like to thank those individuals who participated in the tournament, as well as the following businesses who helped by donating prizes or sponsoring holes in this year’s tournament.
Events

Hole Sponsors
Atlantic Testing Laboratories (ATL)
Bonded Concrete
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Harlan-McGee
Koester Associates, Inc.
Siewert Equipment

Prize Donors
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Regards, Douglas P. Cole, PE
Chairman, Fall Golf Tournament
Capital District Chapter, NYSSPE
RPI vs. Clarkson
Hockey
Houston Fieldhouse RPI Campus
7 PM, Saturday, January 13, 2018

- Join fellow members, friends and their families of the Capital District Chapter of NYSSPE for spirited night of hockey.
- Tickets will be ordered Monday December 4th so we need to have your response by Sunday December 3rd. Price of tickets will be $9/each.
- Send response to markritter@nycap.rr.com
- Check should be made out to Capital District Chapter NYSSPE and sent to Mark Ritter, 236 Konci Terrace, Lake George, NY 12845 (phone 518 668 2985). Please include contact information with your check (phone and email)
- We will have a pregame informal group meal at the Dinosaur Barbeque in Troy at 5 PM. Please advise if you will be able to attend when you reply.
On October 12th, CDC NYSSPE member Dan Shearer, PE of Saratoga Associates, led a well attended on-site tour and presentation of the Mohawk Valley Gateway Overlook (MVGO) in the City of Amsterdam. The MVGO, which reconnects Amsterdam’s north and south side neighborhoods, spans more than 500 feet over the Mohawk River. To infuse new energy into the city’s riverfront, Saratoga Associates created a comprehensive vision for a waterfront park system that could not only connect the two sides of the Mohawk River, but create a much larger, cultural impact on the city. The unique “Park over the River” theme for the MVGO extends a greenway across the Mohawk, including extensive landscape planting, viewing areas, and gathering spaces for large functions. The design of the bridge used various interpretations of architectural and landscape architectural elements to celebrate the story of Amsterdam.

An added benefit of the tour was the attendance of Koby Greene of DA Collins who served as a field engineer during the construction of the bridge. Koby discussed the numerous field challenges in constructing the complex design. The MVGO, which has garnered numerous engineering, design and planning awards since its completion in 2016, has become a gathering point for many civic events for the City of Amsterdam. Following the tour and presentation, many attendees met at local restaurant to socialize.
Congratulations to Jim Kuhn, former President of the Capitol District Chapter of the NYS Society of Professional Engineers, is the President elect for the NYS Society of Professional Engineers. Jim is the President of Atlantic Testing Laboratories, a technical services firm with 10 offices throughout NYS.

Jim is a graduate of Clarkson University and lives in Clifton Park with his wife, Shannon and sons, Larry and Nate.

**Quote of the Day**

"Whether you think you can or can’t, you are right."  -Henry Ford

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On The Lighter Side

Parody of “A Few Good Men”

You Want Answers?

I think I'm entitled to them

YOU WANT ANSWERS?

I want the TRUTH!

You can't handle the truth!! Son, we live in a world that has columns, beams, and foundations. And those structural members have to be sized. Who's gonna design them? You, Mr. Architect with your wild hair and cutting edge fashion?!! I have a greater responsibility than you can ever fathom, you weep for the lost floor space and you curse the size of my girders. You have that luxury. You have the luxury of not knowing what I know: that those structural member sizes, while tragic, saved lives. And my existence, while grotesque and incomprehensible to you, saves lives. You don't want the truth, because deep down, in places you don't talk about at parties, you want me on the design team. You need me on the design team. We use words like stress, loads, safety factors & we use those words as the backbone to a life spent providing lateral resistance and serviceability for buildings. You use them as a punch line. I have neither the time nor the inclination to explain my design to a man who rises and sleeps under the blanket of the very structure I provide, then questions the manner in which I provide it!! I would rather you just said thank you and went on your way. Otherwise, I suggest you pick up a calculator and design a structural system. Either way, I don't give a damn what you think you are entitled to!!

Did you oversize the columns?!

I did the job you hired me to do

Did you oversize the building columns?!!

YOU'RE DAMN RIGHT I DID!!
2018 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 ____________________________________________
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City __________________________ State ______ Zip ______ Telephone ______________________
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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 to markritter@nycap.rr.com
Encourage a colleague to join NYSSPE/NSPE today

To join go to NSPE.ORG

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