



Capital District Chapter

PE TIMES NEWSLETTER

The New York State Society of Professional Engineers, Inc.

April 2011

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President's Message

Sal Ervolina, PE

Though the calendar says we have officially started the spring season, winter still hasn't released its hold on the Capital District. As the weather warms and we start to clean our front lawns and backyards of the winter debris, I want to remind everyone that the Chapter is still busy planning events for our membership. In March we offered a well attended 1-hour seminar in Hot Weather Concreting, based on ACI 305. This was Part 1 of a 2 part series and Part 2, Cold Weather Concreting, will be presented in the fall. Members also participated in the State-wide Mathcounts Competition at RPI.

In the next few months the Chapter is planning to continue this same high level of activity with a number of events already scheduled. On the morning of April 28th the Capital District Chapter is presenting a 1-hour seminar on Submersible Wastewater Pumps and Station Design approved for 1.0 PDH, which will be held at the NYSSPE Office at 6 Airline Drive in Albany. We are also finalizing plans for a field tour in May, and will be holding our annual Installation and Awards Dinner on June 1st at the Watervliet Arsenal Cannon Club. Watch for details in upcoming emails, newsletters and an updated event schedule is posted on the Chapter website and can be viewed by visiting www.capdistpe.org.

In the previous Chapter Newsletter I mentioned that during our December Board Meeting we met with representatives of the Tri-County Chapter and Kelly Norris of the NYSSPE to discuss the possibility of combining the two chapters. As I indicated, the initial discussion was positive, and we have had ongoing conversations and hope to resolve this issue in the next few months. One of the first outcomes of these discussions was the re-establish of a joint Spring Golf Outing that has been scheduled for May 6th in Glen Falls. As you know these Golf Outings helps to support the Annual Chapter Scholarship Award Program and your continued support is appreciated. This year the Chapter has received \$1,600 in ad revenue from our corporate sponsors which will be transferred to Chapter's Scholarship Award Program. As way of rewarding and saying thank you to our sponsors we will be featuring a high profile engineering project designed or constructed by one of our sponsors in each of our future newsletters.

These activities and the operation of the Chapter require the participation of energetic and enthusiastic volunteers. I wrote an open letter to our entire membership to encourage each of you to become a more active member in the Society. A copy of that letter is included in this Newsletter. Involvement with the Chapter Board is a very positive and rewarding experience.

One Director opening remains, and I ask anyone that might be interested to contact me at sexervoli@gw.dec.state.ny.us if you have any questions, or would like additional information about becoming a more active member. The Board has been holding its regularly scheduled Board meetings on the second Wednesday of each month at 7:30 am. Chapter members are always welcome to attend and we always need more help.

DON'T MISS IT - Join us on May 6 for the Tri-County golf tournament to raise funds for engineering scholarships!

**FIFTEENTH ANNUAL
ENGINEERING SCHOLARSHIP TOURNAMENT
TRI COUNTY CHAPTER NYSSPE**

KINGSWOOD GOLF CLUB - Hudson Falls, NY
Friday, MAY 6, 2011

**1:00 PM SHOTGUN START
ENTRY FEE \$75 PER PLAYER MAXIMUM 32 TEAMS
FIRST 32 TEAMS WITH PAID ENTRY**

**Soft spikes Only -Entry must be received by April 22nd
FORMAT 4 PERSON SCRAMBLE (MINIMUM 3 DRIVES PER PLAYER)
LUNCH *GOLF*CART*PRIZES**



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(FEE, Inc. is OK)
SEND CHECKS TO:

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Phone 746-5793 fax 746-5524
E-Mail markritter@nycap.rr.com

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CLIFTON PARK, NY 12065
Phone 852-6368 fax 877-0345

E-Mail: Mike.Fisher@Mike-Fisher-PE.com

*Hole sponsorships available - your company name
On the flag - \$125 first come, first served.*

*Donations of prizes are appreciated -
A great way to get your company's logo in front of
A lot of specifying engineers!*

- TEAM MEMBERS

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Call for Chapter Award Nominations

Following is the nomination form for our annual chapter awards, and a description of each of the awards. I encourage you to review the nomination form and the award descriptions. If you have an individual that meets the description, please fill out the nomination form and follow the instructions at the bottom for submission. This is a great way to recognize engineers within your organization or others you've worked with who stand out among their peers. The awards will be given out at our annual Officers Installation Dinner, scheduled for June 1, 2011 at the Cannon Club.

The nominations are due by May 4th, 2011. Thanks for your participation!

AWARD NOMINATIONS

ENGINEER OF THE YEAR

To recognize a professional engineer who has made an outstanding contribution to the goals of the Society of Professional Engineers by means of educational, collegiate and engineering achievements; professional society, technical society, civic and humanitarian activities; and displayed continuing competence.

YOUNG ENGINEER OF THE YEAR

To recognize a professional engineer or intern engineer 35 years of age or less (as of January 1, 2011 preceding the Summer Annual Meeting of the Board when the award is presented) who has made an outstanding contribution to the goals of the Society of Professional Engineers by means of educational, collegiate and engineering achievements; professional society, technical society, civic and humanitarian activities; and displayed continuing competence.

CITIZEN OF THE YEAR

To recognize a non-engineer who has made an outstanding contribution related to the goals of the engineering profession or to the Society of Professional Engineers.

OUTSTANDING PROFESSIONAL ENGINEER IN MANAGEMENT

To recognize a professional engineer who has made an outstanding contribution to the goals of the engineering profession and the Society of Professional Engineers through his or her demonstrated managerial ability and achievement.

HONOREE FOR CONTRIBUTION IN THE FIELD OF EDUCATION

To recognize an individual whose activities or contributions in the field of Education have broad and lasting effects on the goals of the engineering profession or the Society of Professional Engineers.

MERITORIOUS SERVICE

To recognize a professional engineer who has made an outstanding contribution to the goals of the Society of Professional Engineers over an extended period of time.

OUTSTANDING ENGINEERING ACHIEVEMENT AWARD

To acknowledge accomplishments of the engineering profession by recognizing outstanding engineering achievements that have captured the innovative and dynamic spirit of a profession dedicated to public service. See the Outstanding Achievement Award instruction/detail sheet.

NYSSPE PRACTICE DIVISION AWARDS

GOVERNMENT ENGINEER OF THE YEAR

To recognize a professional engineer in Government who, during a career in public service, has made an outstanding contribution to public health, safety and/or welfare, the engineering profession, and the

goals of the Society of Professional Engineers through demonstrated managerial ability and professional engineering achievement.

CONSTRUCTION PROFESSIONAL OF THE YEAR

The nomination criteria include Professional Engineers and Registered Architects, in charge and accountable for significant construction projects in successful private firms or public agencies involved in design and construction. Additionally, the criteria included direct overseeing of professional engineering efforts in creative solutions for maintaining infrastructure as well as in the development of new technologies in the construction of future capital and infrastructure projects.

INDUSTRY PROFESSIONAL DEVELOPMENT AWARD

The New York State Society of Professional Engineers (NYSSPE) Industry Professional Development Award (IPDA) is presented to the nominated industrial employer of engineers that has made outstanding contributions to the advancement and improvement of the engineering profession through its employment policies. The purpose of the award is to recognize those companies with the best record of engineering employment practices, and to encourage all companies to adopt similar progressive policies and practices.

For all nominations, please fill out the nomination form on the next page and return it to us by May 4, 2011.



**CAPITAL DISTRICT CHAPTER
AWARD NOMINATION FORM
DUE BY May 4, 2011**

INDICATE AWARD FOR WHICH THIS NOMINATION IS MADE:

- ENGINEER OF THE YEAR
- YOUNG ENGINEER OF THE YEAR
- CITIZEN OF THE YEAR
- OUTSTANDING PE MANAGER
- CONTRIBUTION TO EDUCATION
- MERITORIOUS SERVICE
- OUTSTANDING ENGINEERING ACHIEVEMENT
- GOVERNMENT ENGINEER OF THE YEAR
- CONSTRUCTION PROFESSIONAL OF THE YEAR
- INDUSTRY PROFESSIONAL DEVELOPMENT AWARD

CANDIDATE: _____

ADDRESS: _____

E-MAIL: _____

DATE COMPLETED: _____

Describe the specific contribution(s) you feel warrant(s) this award being given to the proposed candidate (use extra pages as necessary).

SPONSOR:

NAME: _____

POSITION: _____

ADDRESS: _____

SIGNATURE: _____ **DATE:** _____

RETURN FORM TO: Atlantic Testing Laboratories OR Fax to: 518-371-1113
Attn.: Jim Kuhn E-Mail: jkuhn@AtlanticTesting.com
22 Corporate Drive
Clifton Park, NY 12065

Educational Program from Poole Professional Managing Construction Phase Services



Presented by Guy LeVan, Vice President with XL Design Professional

The construction phase can bring issues to the surface. By approaching the construction phase proactively, architectural and engineering professionals can exercise greater control over the interpretation of their final design, address questions and problems as they arise, and support their client's objectives more efficiently and effectively. Understand your exposure for professional liability claims and focus on several "Best Practices" from case studies that will improve your process.

Learning Units: 2 AIA/CES Learning Units, ACECNY 2.5 Professional Development Hours, Health, Safety & Welfare Qualified.

For XLDP Insureds: This is a qualified PLEP course. More than 50% of the firm's principals PLUS more than 50% of the firm's project managers must participate in order to qualify for credit.

May 25, 7:30am – 10:00 am

[ACEC offices, 6 Airline Dr., Albany, NY](#)

May 26 7:30am – 10:00 am

[Oak Hill County Club, Rochester, NY](#)



Please join us for this complimentary program by reserving your spot by May 15!

RSVP: mrmullard@poole-ny.com

1160F Pittsford-Victor Rd. Pittsford, NY 585-385-0428

www.poole-ny.com

Seminar – Submersible Wastewater Pump and Design

The Capital District Chapter of NYSSPE is presenting a 1-hour seminar on Submersible Wastewater Pumps and Station Design. The seminar is approved for 1.0 PDH, and will be held at the NYSSPE office at 6 Airline Drive in Albany on April 28th. Registration will begin at 7:30am, and the program will begin at 8:00am. Admission for NYSSPE members is \$5.00, Non-Members is \$10.00, a continental style breakfast will be available.

Please see the following for a description of the seminar. For registration, please contact Steve Moore (smoore@atlantictesting.com), or Sarah Jensen (sjensen@atlantictesting.com), or by calling 518-383-9144.

We hope to see you there.

The outline (flyer on next page):

Submersible Waste Water Pump and Station Design 60 Minutes

- Common applications in waste water pumping for municipal and industrial
- Types and Installations of submersible pumps, pump selection, and performance curves:
 - Close coupled centrifugal, axial, and mixed flow pumps
 - Non-clog, grinder, chopper, slurry, drainage, propeller pumps
 - Submerged or dry installation
- Exploded view of submersible pump, components, materials of construction, electric motor, stator, cooling, impeller, mechanical seal, and seal protection
 - Submersible mixers and aerators
 - Applications, oxygen transfer, and odor control
 - Monitoring and Control
 - Leakage, thermal, vibration, and pump memory
 - Number of starts, alarm transmission, alarm logs and control software
- Questions and Answer session



Submersible Waste Water Pump and Station Design Seminar

Course approved for 1 PDH for professional engineers through PIE



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Rochester, NY. 14624

Sales and Engineering
Joseph Johnson-Branch Manager
John Finter-Sales

Member Participation Needed!

Capital District Chapter Members,

I am writing to you today to encourage you to become an active participant in our local Chapter. I truly believe that the Capital District Chapter makes a positive contribution not only to the engineering profession, but also to our local community through our volunteer activities. The only way we can continue to accomplish these activities is if our members are willing to volunteer their time and expertise to help the Chapter accomplish its goals.

The National and State Societies of Professional Engineers are the premier organizations of professional engineers that promote and defend the lawful and ethical practice of engineering. Founded in 1934, NSPE strengthens the engineering profession by promoting engineering licensure and ethics, enhances the engineer image, advocates and protects the legal rights of professional engineers at both the national and state level, provides continuing education opportunities and fights to provide the best possible working environment for PEs.

The Capital District Chapter is an organization comprised of local engineering professionals. Our Chapter organizes events that offer educational, networking and social opportunities to our members and provides an opportunity to gain professional referrals through contacts with colleagues in our own community.

The Chapter also hosts an annual golf outing to raise funds to support our scholarship program which encourages and assists area high school students to pursue an engineering education and continue the tradition of technological excellence in the Capital District. Members also volunteer their time to ensure important educational programs such as Future City, Chapter and State Mathcounts, and Engineers Week continue to be successful.

The above activities, along with the operation and administration of the Chapter, require the participation of energetic and enthusiastic volunteers. I have found that becoming a member of the Chapter Board of Directors is a very positive and rewarding experience and encourage you to become a more active member in the Society. Chapter officer elections will take place in May and there is vacant Director position available. If either yourself, or someone you know is interested in taking a larger role in the Chapter, please contact me or any of the other members of our Board. Your time commitment need not be large - we would welcome any level of participation, from accepting a Director position to help with any of our Chapter events and committees.

I also want to extend an open invitation to all our members to attend one of our monthly Board of Directors meetings, meet our Board and learn a little more about the Chapter. The next two regularly scheduled Board meetings will be held on the second Wednesday in April and May at 7:30 am. Chapter members are always welcome to attend and we always need more help.

Thank you for this opportunity and I hope to see you all soon.

Sincerely,

Salvatore W. Ervolina, P.E.
President

2011 Mathcounts – State Level Competition

by Sal Ervolina, P.E.

2011 State Mathcounts

This year's 27th annual New York State Mathcounts Competition was held on Saturday March 19, 2011 at the Rensselaer Polytechnic Institute campus in Troy. RPI once again generously agreed to host and provide support for the State Competition. The top three Capital District Chapter schools participating in the State Competition were the Farnsworth Middle School, the Shaker Junior High School and the Van Antwerp Middle School. Additionally, the two highest scoring individuals not on one of the top three teams, Philip Sun and Joe Lou (both from Acadia Middle School) also advanced to the State Mathcounts Competition finals.

Once again this year's State Mathcounts Competition was a great success with over 300 students participated in the State Competition this year. The Capital District's schools did extremely well this year, with four Capital District students placing among the top twenty students. Xiquing Dong from Farnsworth Middle School placed fourth and is moving on to the National Mathcounts Competition, while Alexander Wei from Van Antwerp Middle School placed fifth. Among the team scores, Farnsworth Middle School, Shaker Junior High School and Van Antwerp Middle School placed third, ninth and thirteenth, respectively, among the 50 teams competing in the State Mathcounts Competition.

Mathcounts is a nationwide program designed to improve math skills among U.S. students. The competition targets middle school students, who are at a crucial stage in developing and sustaining math interest and ability. Teachers and students have been preparing for the competition since the fall. Students compete individually and as teams in written and fast-paced oral matches. Subjects include algebra, probability, statistics and geometry.

The written competition began at 9:00 a.m. and continued through noon. After a break for lunch the Countdown Round Competition was held at 1:00 p.m. and awards were presented at 2:00 p.m. I especially want to thank all the volunteers who contributed their time and effort to once again make the competition a success, especially since there were so many schools participating. This is an extremely rewarding activity and we welcome any new volunteers who would be willing to help out during next year's competition.

2011 Engineer's Week

Once again this year the Capital District celebrated Engineers Week on February 17th and February 18th at the Albany Marriott located at 189 Wolf Road in Albany. The Capital District Engineers Week Celebration continues to be very popular, with approximately 750 engineers, scientific professionals and students registering for the two-day event.

National Engineers Week was created in 1951 by the National Society of Professional Engineers and coincided with President's Day. This was no coincidence, since George Washington, the 1st President of the United States was a land surveyor and engineer. Engineers Week (E-Week) is held to create awareness of the contributions of engineers to society.

The Capital District E-Week's main focus is to promote the Engineering Profession. The purpose of this event is to raise public awareness of the positive contributions engineers have made to the quality of life, and to promote recognition among parents, teachers and students of the importance of a technical education and a high level of math, science and technology literacy, and motivate youth to pursue

engineering careers in order to provide a diverse and vigorous engineering workforce. Proceeds from E-Week are used to support various engineering and academic student activities.

With these goals in mind, during the E-Week Awards Luncheon the local Capital District Future Cities and Mathcounts winners were recognized and the State Mathcounts program was promoted. E-Week also sponsored a bridge building competition for high school students and a concrete canoe competition for local college engineering students. Students were also offered the opportunity to attend technical seminars at no charge.

E-Week offers numerous technical seminars with professional development hours (PDHs) over the two days in one convenient location. At total 79 of highly attended seminars were offered in various engineering disciplines such as environmental, traffic, civil, electrical and structural engineering. Proceeds from E-Week are used to help support the worthwhile student activities mentioned above.

Upcoming Events

April 28, 2011

Seminar – Submersible Wastewater Pump and Design (see the included newsletter article for details)

May 4, 2011

Chapter Award Nominations Due

May 6, 2011

Chapter Officer / Director Ballots Due

May 6, 2011

LISAT2011 Seventh Annual IEEE Long Island Systems, Applications and Technology Conference - 2 PDHs

Location: The Institute for Research & Technology Transfer at Farmingdale State College, SUNY, Farmingdale, NY

[Call For Papers and Exhibitors](#)

May 10, 2011

Board Meeting

7:30 am at the ATL Offices at 22 Corporate Drive, Clifton Park, NY.

May 19, 2011

Capital District Chapter: Officer Installation and Annual Dinner

Location: Cannon Club at the Watervliet Arsenal

May 25, 2011

Managing Construction Phase Services (see the included newsletter article for details)

June 9-10, 2011

NYSSPE Annual Convention - Get up to 8 PDHs

- Location: The Woodcliff Hotel & Spa, 1999 Woodcliff Dr., Fairport, NY 14450 ([MAP](#))

"New" Meeting format...

Thursday, June 9, 2011

8:30-4:30pm - Seminars offered

3:30-5:00pm - NYSSPE Executive Meeting

6:30-9:30pm - Boat Tour on the Erie Canal

Friday, June 10, 2011

8:30-12:30pm - Seminars offered

12:30pm - Keynote Luncheon

2:00-3:00pm - The Foundation for Engineering Education (FEE) Meeting

2:00pm - 3:00pm - NYSSPE Practice Division Meetings

3:00pm - 5:30pm - NYSSPE Board of Directors Meeting

6:30-7:30pm - Installation & Awards Reception

7:30- 9:30pm - Installation & Awards Dinner

We are calling for seminars, if you are interested please contact Jen Miller at jamiller@nysspe.org

New Member Benefit – Free PDHs!

New Member Benefit



Fifteen Free PDHs

NSPE Members: Earn Fifteen Free PDHs. NSPE membership now includes 15 free professional development hours that you can conveniently earn through online seminars.

At the end of each seminar, a quiz will be available for those who need it to meet their state's continuing education requirements. If you're not an NSPE member, [join now!](#)

NSPE membership gives engineers the tools and services they informed and better connected within their professional
Download this Excel file to see!



need to be better community.

Members-on-the-Move

This is a new column in our newsletter – If you know of any of our members that have recently accepted a new position, received a promotion, or are retiring, please let us know! Drop an email to John Steele at jsteele@steele-engineering.com.

New Benefit for Society Sponsors

We're looking to hear from you! Tell us about a project or lend some of your expertise to your fellow engineers. Every newsletter we'd like to provide an article from or about one of our sponsors. If you have an idea or an article, feel free to call or drop an email to John Steele at (518) 428-5509 or jsteele@steele-engineering.com.

Future Cities – 19th Annual Competition Results

Students from nearly 40 regions across the country were tasked with engineering, designing and developing virtual and on-site health care systems for clinics and hospitals of future generations

Engineers have long played a vital role in improving the quality of healthcare by innovating and implementing ground-breaking delivery systems, technologies, devices and products. Middle school students that participated in National Engineers Week Foundation's 2010-11 Future City[®] Competition were asked to serve as the engineering leaders for a program that supports and sustains the healthy living and wellness programs that doctors, nurses, caregivers and patients will demand in generations to come.

With the theme of ***Providing a Reliable and Effective Health Care System That Improves a Sick, Injured or Disabled Patient's Quality of Life and Comfort***, students wrote research essays describing their concept and a second narrative outlining its key features. As it addresses how to treat a specific category of patient with a specific condition, the essays explored options for the practice of both virtual and on-site medicine and the detailed the development of systems to support diagnosis, treatment, monitoring and rehabilitation and it will adhere to strict technical and ethical standards.

Participating students were also asked to design a model of their project using SimCity 4 Deluxe software and then build a physical model using recycled materials. As they envisioned the medical centers, clinics and hospitals of the future, students proposed their design and developed the supporting infrastructure – both virtual and physical - to be used by those facilities.

The 2010-11 Future City Competition attracted more than 33,000 students from 1,100 middle schools in regions located across the country. Now in its 19th year, the annual challenge has received national attention and acclaim for its role in encouraging middle school students nationwide to develop their interest in science, technology, engineering and math (STEM). Through hands-on applications, Future City participants discover by doing how engineering is both accessible and can make a difference in the world. This year, for the first time, sixth graders are being invited to join seventh and eighth grade students in the competition.

Future City is always looking for professional engineers who may be interested in serving as mentors. For information, school registration, or to volunteer in the Future City Competition, visit www.futurecity.org

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** = **8** PDHs/LUs



Now accepting Registrations for the
Spring 2011 Sessions

NYC

- March 25- **New York City Building Code: Multi-Family/Mixed Use Building Design & Fire Protection Options**8 PDHs**
- April 5- **Hot Topic: Focus on Professional Ethics**
- April 28- **LEED Exam Preparation Course**8 PDHs** (Different fee structure applies)
- May 11- **Failure Analysis**
- May 24- **New York City Building Code: Multi-Family/Mixed Use Building Design & Fire Protection Options**8 PDHs**

Albany

- April 6- **Hot Topic: Focus on Professional Ethics**
- April 28- **Water-Based Fire Protection Systems in the New York State Fire Code**

Buffalo

- April 1- **Stormwater Retrofit Planning & Design**
- May 10- **Failure Analysis**

Syracuse

- April 12- **2010 New York State Codes - Significant Changes**
- April 26- **Stormwater Retrofit Planning & Design**

\$235/person/session before March 1
\$285/person/session after March 1
 (Lunch is included on site for all sessions)



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 www.idpnewyork.com**

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