

Queens Chapter New York State Society of Professional Engineers *The Drawingboard*

February 2011

Volume 11, Number 2

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President's Message

By *George Tavoulareas, P.E.*
President
gltp@msn.com

This year's Mathcounts competition was a huge success. I want to thank Past Chapter President **Bob LoPinto, PE** for all of his efforts in making the competition a success. Year in and year out Bob organizes and makes the competition a success. Thank you Bob for all of your help. I also want to thank **John Sgouros, PE, Brian Flynn PE, Chris Petalides, PE** and all the students and teachers who made the competition a success. **John Liu**, the NYC Comptroller was also on hand and gave the students a pep talk.



*NYC Comptroller
John Liu (l)
and
Queens Chapter
Coordinator Robert
LoPinto, PE
at Queens
Mathcounts 2011*

Over the last several weeks, various City Agencies are planning to adopt more rules and regulations. Click on the link to read more.
<http://www.nyc.gov/html/nycrules/html/proposed/proposed.shtml>

Engineers Week is from February 20-26, 2011. I want everyone to tell a person who is not an Engineer what you do at work and why Engineers play an important role in society. We need to make the public aware of our achievements and our role in society.

Our website is being updated, please send me photos of projects that you worked on. We will include it on our website and advertise it free of charge to the world.

Our next meeting is scheduled for February 24, 2011 at 6pm in Ft. Totten. I LOOK FORWARD TO SEEING YOU.

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Next Meeting

The next general membership meeting will be held on February 24, 2011 at 6:30PM.

ENGINEERING AND THE LAW

Mr, Joseph Pasaturo, PE Vice Chairman-NY State Board Of Engineering and Land Surveying will present *Laws, Rules, and Regulations under Title 8*.

Topics for discussion include:

Definition of the Practice of Engineering, the title "Professional Engineer," sealing documents, professional misconduct and illegal practice, Design delegation and the Home Inspection Act will be discussed.

2 pdhs will be offered

Cost \$10 for NSPE members, \$25 for non members.

The fee will be waived if you become a member of NSPE.

Greg Kumm from the professional liability insurance company Prosurance Redeker will also discuss:

What Engineers can do to protect ourselves against lawsuits for

design errors and omissions, lawsuits involving design professionals, types of professional insurance, and what most policies cover.

Dinner Starts at 6pm and the general membership meeting will begin at 6:45pm

Do You Trust Engineers?

Web Link of the Month

China's Amazing Bridges

<http://www.authorstream.com/Presentation/sreechandra-406203-china-amazing-bridges-chain-flier-2003v-1-travel-places-nature-ppt-powerpoint/RA/PE>.

QUEENS COUNTY CHAPTER, NYSSPE MATHCOUNTS COMPETITION

(By Robert LoPinto, PE –Mathcounts Coordinator)

The Queens Chapter - NYSSPE annual MATHCOUNTS Competition was held on Saturday, February 5^h, at Junior High School 189, in Flushing. Eight schools and on Homeschool from Queens registered in the MATHCOUNTS Program competed in the competition. MATHCOUNTS is a Math skills building and competition for 6th, 7th & 8th grade students, sponsored by the National Society of Professional Engineers, the CNA Foundation, Raytheon Company, National Defense Education Program, Northrop Grumman Foundation, 3M Foundation and Texas Instruments. Competitions are held at the local Chapter level, followed by a State competition. The top individuals from the State competition then compete at the Raytheon National Competition, which is being held in Washington, D.C. this year. The top winners of the National Competition can win college scholarships.

Teams of 4 students and up to 6 individuals from the schools spent about 4 hours taking various written and oral tests. There was a 40 minute, 30 question written individual test, followed by four sets of two written questions to be answered in 6 minutes for each set. This was followed by a 20 minute, 10-question team test, where the 4 team members worked together to answer the questions.

The Queens Chapter Team Winners were:

1ST PLACE MS 158- MARIE CURIE MS COACH: FREDDY SAMPSON

AMANDA WANG

JASON LEE

ANDREAS WANG

BRANDON LIN

2ND PLACE MS 67- LOUIS PASTEUR MS COACH: ZACHARY BOYT

NICHOLAS BEASLEY

BRIAN GUO

DAN KIM

LYDIA WU

3RD PLACE JHS 190- RUSSEL SAGE JHS COACH: MARY RANDOLPH

ALEX HU

MICHAEL JIN

VICTOR MIGLO

CARDY WEI

The top Individual Winners were:

RANK	INDIVIDUAL	SCHOOL
1	Andreas Wang	MS 158
2	Nicholas Beasley	MS 67
3	Dan Kim	MS 67
4	Victor Miglo	JHS 190
5	Tyler Wang	JHS 190
6	Alex Hu	JHS 190
7	Cardy Wei	JHS 190
8	Michael Gao	MS 67
9	Mathew Ho	MS 74

The Oral Countdown Round Winners were:

RANK	INDIVIDUAL	SCHOOL
1	ANDREAS WANG	MS 158
2	NICHOLAS BEASLEY	MS 673
3	DAN KIM	MS 67



John Liu Gives Pep Talk Before the Competition



Students Hard at Work

The competitions went off without a hitch, thanks to the help of the Team Coaches, and the Professional Engineer Chapter members. At the beginning of the competition, the New York City Comptroller, John Liu, gave a pep talk to the students. At the end of the competition, an awards ceremony with was held, and the trophies and other awards were presented to the Queens Chapter winners. Robert A. LoPinto, PE, Past Queens Chapter President and MATHCOUNTS Coordinator set up the day's events and ran the Countdown competition. Chapter Members Bryan Flynn, PE and John Sgouros, PE assisted in the competition. In addition to the Team Coaches, who assisted with the scoring, Gomathy Subramanian volunteered her help through the national VolunteerMatch organization. All in all, it was an enjoyable morning for all involved. The top three teams now move on to the State Competition in March. Good Luck!



American Engineering Alliance

2011 ANNUAL PROFESSIONAL & SOCIAL EVENT REGISTRATION & SPONSORSHIP FORM

RESERVATIONS REQUIRED

DATE: Tuesday, February 22, 2011

TIME: 5:00 PM – 7:30 PM

WHERE: C. P. Davis Auditorium, Schapiro Center for Engineering, Columbia University
500 West 120th St., NYC (Between Broadway and Amsterdam Ave.)

NOTE: Public Parking available nearby

PROGRAM:

- **Opening Social, Mingling and Company Recruitment-** includes light buffet and soft drinks
5:00 PM – 5:30 PM
- **Welcome and Introduction** – Scott Kelly (Columbia U.) ; Salvatore Galletta, P.E.(AEA)
5:30 PM – 5:40PM
- **Guest Speaker - Richard Weingardt, PE, FACEC, Hon. M. ASCE** will give a presentation on “**Preparing Our Students to Meet the Challenges of the 21st Century**”
5:40 PM – 6:00 PM
- **Panel Discussion** – Challenges and Opportunities Facing Our Profession. Panel of distinguished Professionals from academia, government and the private sector will give their views on the challenges and opportunities that students will face in today’s market place.
6:00 PM – 6:45 PM
- **Student Question Period**
6:45 PM – 7:00 PM
- **Closing Remarks and Follow through Future Actions** - to ensure student Engineers are ready for the challenges and opportunities of the future.
7:00 PM – 7:05 PM
- **Mingling and Networking**
7:05 - 7:30 PM

COST: \$25 per Person (Free for preregistered Students & Faculty – please list names of attendees)

Please mail, fax or email the below form for receipt by February 16, 2011

Make check payable to: “A.E.A.”

Mail to: c/o Lou Comunelli – AEA Annual Event

The LiRo Group

703 Lorimer Street

Brooklyn, NY 11211

Fax: 718-387-6754

NOTE: Students and Professors are eligible for one year free AEA membership

For additional information call AEA at the LiRo Brooklyn headquarters 718-782-0268; write to comunellil@verizon.net

February 22, 2011 American Engineering Alliance
Annual Professional & Social Event

First Name: _____ Last Name: _____

Company/Agency/University: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____

Number of Tickets: ____ at \$25 each _____ (Free for preregistered Students & Faculty – please list names of attendees)

Company Sponsorship at \$200 (includes 2 tickets and recruitment table): _____

Total: _____

**ASHRAE New York City Chapter, GSA, Con Edison, EPA and Duane Morris
Present
JOINT ALL-DAY SEMINAR , STUDENTS POSTERS, NETWORKING RECEPTION
& GREEN ZONE EXHIBITS**

LOW ENERGY & WATER USE MEASURES FOR COMMERCIAL BUILDINGS CONCEPT THROUGH OPERATIONS



SAVE THE DATE - Tuesday May 3, 2011

**Alexander Hamilton US Customs House
One Bowling Green, New York, New York**

**A HIGHLY ENGAGING & USEFUL SEMINAR FOR DEVELOPERS,
DESIGNERS, OWNERS, OPERATORS, PROCUREMENT OFFICIALS &
OTHERS WITH KEEN INTEREST IN RESOURCE EFFICIENCY &
GREENING THE LANDSCAPE**

OPENING PLENARY: SETTING THE CONTEXT FOR THE DAY.

SESSION 1: Track I- Integrated Design to Operations approach

SESSION 1: Track2 - Role of & Training of Facilities Operations & Maintenance Staff

SESSION 2: Track I - Applications of Green Codes – ASHRAE 99.1, 189.1, 55...

SESSION 2: Track 2.- Federal Contracting Vehicles, Executive Order 13514

SESSION 3: Track 1 - Commissioning & Retro-Commissioning

SESSION 3: Track 2 - Keeping Score: Metrics Of Building Environmental Performance- ,
Monitoring, Tracking, Benchmarking & Labeling

SESSION 4: CASE STUDIES & SPECIFIC INDUSTRY EXPERIENCES

Track 1 - High Performance Buildings Performance Gaps, Liabilities & ways to
Bridge the Gaps

Track 2 - Innovative Energy & Water Efficiency Measures

CLOSING PLENARY

Cocktail & Networking : 5:15 PM to 7:30 PM

It is intended to award PDH & CEU Credits for attendance at this event.

Job opportunity **Mechanical Engineer (NYC) Job Posting**

The Dormitory Authority of the State of New York provides financing and construction services to public and private universities, not-for-profit healthcare facilities and other institutions that serve the public good.

We currently have an opportunity in our New York City office for a Mechanical Engineer to manage the design process and administer professional services contracts for consultants providing design services to the Authority and conduct formal reviews of consultant prepared design documents throughout all phases of building design. This position will also perform periodic quality assurance construction site visits, and provide technical support on an as needed basis throughout all phases of the project. The starting annual salary is \$84,861 and the position is represented by the CSEA union.

Please note that frequent travel is required.

Essential Functions:

- Manages the project development during the pre-design and design phases of the project, including meeting with clients and consultants and providing assistance, and managing all aspects of consultant contracts including review and approval of consultant requests for payment, amendments, extensions of schedule and contract closeout.
- Perform periodic site visits to projects under construction and monitor the quality of design and construction work performed by architects, engineers, consultants, contractors and subcontractors.
- Monitor construction activities including the review and approval of construction change orders and performance of interim and final project inspections on large and complex projects. Review highly technical designs, plans, specifications, addenda and change orders. Review highly technical architectural/engineering reports and studies. Review highly technical commissioning reports. Prepare commissioning scopes of work. Review commissioning payments.
- Provide technical assistance and recommendations to unit staff, Project Management staff and client representatives.
- Coordinate with Project Management to resolve project and/or program issues.
- Perform independent, in-depth investigations of specific problems including architectural/engineering analysis and recommendations. Consult with regulatory agencies regarding interpretations and applications.
- Meet with consultants to review and assist them in their submissions.
- Assist in the development, compilation and distribution of technical data.

Other Duties and Responsibilities:

- Assist in the design, development, and/or testing of computerized systems/applications.
- Assist in the preparation of internal design work and modifications, sealing documents as required.
- Assist Management in the development of policies.
- Develop, document and implement procedures.
- Assess, develop and implement internal controls, and oversee the review and testing of same.

Minimum Qualifications:

Bachelor's degree plus five years relevant post-license experience in Mechanical Engineering. Must be licensed as a NYS Professional Engineer. Must possess a valid driver's license.

Preferred Qualifications:

Bachelor's degree in Engineering with specialization in Mechanical Engineering. Five or more years of relevant post-license experience in HVAC and plumbing systems. Must be licensed as a NYS Professional Engineer. Must possess a valid driver's license. Familiarity with JD Edwards and Primavera Contract Manager.

All applicants must also have:

- Demonstrated ability to work independently and exercise sound judgment.
- Demonstrated analytical skills.
- Excellent oral and written communications skills.
- Proficiency in PC applications such as Microsoft Outlook, Excel, Access, Word and PowerPoint.

We offer a comprehensive benefits plan, which includes:

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- Training & development opportunities

If you feel that your knowledge & experience would be a good match for a Mechanical Engineer position, please apply by sending your resume to:

Elvira Alexander, Human Resources
Dormitory Authority - State of New York
515 Broadway, Albany, NY 12207

Jobopps1@dasny.org

Fax: (518) 257-3550

EEO

Best regards,

Elvira Alexander
Dormitory Authority - State of New York
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