

Queens Chapter New York State Society of Professional Engineers The Drawingboard

April 2013

Volume 13, Number 4

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President's Message

By George Tavoulaareas, P.E.
President gltp@msn.com

I am saddened to inform you that Rocco DiRuggiero, PE passed away last Thursday. Rocco is a professional engineer with over thirty years of experience as a public servant with the NYC DOT. Rocco is survived by his two sons and his wife. His son Tony is a professional engineer and our Drawingboard editor. May his memory be eternal.

Congratulations to Queensborough Community College located in Bayside, NY for receiving the 1st Prize in the Mechanical Engineering Technology Project Category for their Fuel Cell Go-Cart Project. The competition was held at the Westchester Engineering Expo last week.

The NYC Department of Design and Construction posted four job notices that did not require a professional engineer to supervise the work. These postings are highly technical in nature and clearly require a professional engineer to interpret data pertaining to testing, hazardous materials, surveying, etc. Each of these positions entails the practice of Engineering which by NY State law requires that the holder of that position be a licensed Professional Engineer. In addition, the "Minimum Qualification Requirements" has been expanded to include disciplines that are irrelevant to the core requirements of the job, including a law degree. I certainly wouldn't feel comfortable having a lawyer review test data pertaining to asbestos and other hazardous materials. Anthony Fasano, PE the state's Executive Director filed a complaint with the NYC DDC commissioner and with Jane Blair the Executive Secretary for the NY State Engineering Board. The letter can be read in this issue of the Drawingboard.

Next General Membership Meeting

The next general membership meeting will be held on Thursday April

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25, 2013 at 6:15pm. at 422 Weaver Ave in Ft. Totten, NY. 1PDH \$10 for members; \$15 for non-members, Students are free and are encouraged to attend

Innovations in Brick Veneer and Metal Stud Backup Michael G. Gurevich, Masonry Consultant NYC Brickwork Design Center

Topics Include:

- Basic Behaviors of Brick Veneer Masonry Wall Systems
- Detailing and Specifications of Exterior Wall Systems
- Engineer Design of Wall Systems
- Brick Veneer Installation, Field Inspection and Quality Control

Proposed rules governing the City of New York

<http://www.nyc.gov/html/nycrules/html/proposed/proposed.shtml>

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New rules include clarifications to minimum elevations of structures in flood prone areas; and inspections of potentially structurally compromised structures.

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Website of the Month

ASCE Earth Day

<https://plus.google.com/101241182242997553544/posts/fiok2U9vKaJ>

AEA “Student outreach Program”

The Queens Chapter Board has endorsed the American Engineering Alliance’s (AEA) “Student Outreach Program”. Sal Galletta, PE, past president of the Queens Chapter and current chair of AEA is mobilizing our colleagues in the Engineering Community to support AEA’s bold and ambitious initiative. As part of this effort, Sal has reached out to NYSSPE president-elect, Keith Lashway, PE and Rudi Sherbansky, PE, of the NYSSPE, Manhattan Chapter to spearhead a concerted effort of engaging our academic Engineering colleagues at CCNY. The intent of this undertaking is to enlist the support of the administration at CCNY to allow us, practicing Engineers, to interact with the students and to, introduce certain concepts and issues in the Engineering curriculum that students need to know in today’s challenging environment. Sal is hoping to set up a meeting with CCNY officials in the coming weeks. (see below the proposed meeting agenda)

WORKING MEETING WITH CCNY FACULTY LEADERS

PROPOSED AGENDA

Preface:

Practitioners of our fellow Professions of Medicine and Law exercise a significant degree of control over the curriculums under which the future candidates of these callings are prepared to take over the reins of their service to Society. An integral part of the curriculums that both nurture is” Ethics”. Ethical behavior is sharply defined in Medicine and Law, and is the foundation of how the practitioners of these Professions deliver their service to the Public. If there is no clear and universally observed ethical code for Engineers, we cannot truly be recognized as Professionals of equivalent stature to Doctors and Lawyers. It is therefore our intention as practicing Professionals to help introduce into Engineering Curriculums the necessary values and collective wisdom that will help form the framework of the way Engineering should be practiced, into the minds of today’s Engineering students. In this way we can better prepare them to meet the challenges of the 21st Century. Specifically, we propose as a beginning, that the following subjects be stressed as subjects by themselves, and interspersed into the technical classes of the Engineering Curriculums:

- Understanding the Engineer’s role in Society
- The importance of Licensure
- Integrity
- Leadership traits and skills
- Teamwork
- Communication Skills
- The Global Market
- Challenges (and Opportunities) facing Engineers in the 21st Century



The New York State Society of Professional Engineers, Inc.

The Founding Society of the National Society of Professional Engineers

April 11, 2013 (Revised April 16, 2013)

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Office of the Professions - New York State Education Department
89 Washington Avenue, 2nd Fl. Mezzanine, East Wing
Albany, NY 12234

Dear Ms. Blair,

The following is a revision to the letter sent you on April 11, 2013. We made some minor changes to the wording of our complaint which we believe make it more accurate with respect to current regulations.

As a follow up to our discussion at your recent board meeting, on behalf of the New York State Society of Professional Engineers (NYSSPE) I wanted to again express concern regarding the publication of several "Job Posting Notices" by the New York City Department of Design and Construction (DDC). Specifically, I am referring to the following job postings (see attachment):


1. Administrative Project Manager: Engineer-in-Charge (Job ID: 113072)
2. Administrative Project Manager: Deputy Director – Field Operations (Job ID:112968)
3. Administrative Project Manager: Section Chief-Hazard Materials (Job ID: 113019)
4. Administrative Project manager: Director of Site Engineering (Job ID: 114998)

We feel strongly that all of the above four job postings are high-level technical positions that require a professional engineering (P.E.) license. Based on these descriptions, we believe that these technical positions entail the practice of engineering, which by NY State law requires that the holder of each position be a licensed Professional Engineer. In addition, the "Minimum Qualification Requirements" on these postings have been expanded to include disciplines that are irrelevant to the core requirements of the job. At best, these requirements, e.g. a degree in business administration or public administration, are useful in the execution of the responsibilities of the position, but not to the technical aspects of the job.

We do not believe that interpreting technical data pertaining to materials testing, hazardous materials, surveying, etc. as listed in the job applications can be legally performed by an attorney, etc. in New York State as this work falls under the practice of engineering. Furthermore, the safety and well being of the public is an engineer's paramount responsibility and the selection of parties without sufficient technical knowledge necessary for the sound performance of these positions would place the health and safety of the public at risk.

We are seeking the advice of the New York State Boards for Engineering and Land Surveying, and Interior Design on how to proceed in addressing this matter.

Please feel free to contact me to discuss these issues.

Sincerely,

Anthony Fasano, PE
Executive Director, NYSSPE

Cc: NYSSPE MCPC, NYS DDC



PROFESSIONAL DESIGN CENTER OF NEW YORK, INC
422 Weaver Ave
Fort Totten, Bayside, NY 11356

American Institute of Architects

Queens Chapter

NYS Society of Professional Engineers

2013

P D C Lecture Series

1-13

Lecture

Date: Wednesday, May 15, 2013

Time: 7:00PM to 9:00PM

At

422 Weaver Ave. Fort Totten, Bayside, Queens

2 Continuing Education Credits

Admission fee is \$40 for AIA & NYSSPE members; \$50 for non-members.

Mail payment to:

Professional Design Center, Attn: George Tavoulaareas,
98 Mulberry Ave Garden City, NY 11530 by 5/10/13.

PRESENTED BY

Tamara Saakian, PE, Director of Engineering & Tech. Management, NYCFD
Nicholas Petrakis, Engineer with the Rooftop Access Unit

THE PROGRAM: Fire Dept Filing Procedures

The seminar will clarify the Fire Department's filing procedures when submitting various applications. The presentation will include Fire Department application forms (TM-1, TMR-2, Application for Modification (Variance), etc.), required permits, inspection processes, On-site diesel fleet fueling applications, Clean Agent applications, Range hood fire extinguishing system applications, & Sprinkler/Standpipe applications.

Buffet dinner 6:15 pm-7:00pm included

Contact George Tavoulaareas, PE at 347-387-1649 to RSVP

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March 19, 2013 at 5:30 pm. Our office at the above address.
For reservations contact us at NYCBDC@AOL.com
or fax your name to our NYC office

NYC BRICKWORK DESIGN CENTER PRESENTS
SEMINAR

“Innovations w/Brick Veneer & Metal Stud backup” exterior wall system
In accordance with the new BIA Technical Note #28B (Revised Aug. 2005) requirements
21 Century concepts in design & construction of the **controversial exterior wall system**

Program Description:

- Basic behavior of brick veneer masonry wall systems:
 - Movements in brick veneer and design of expansion joints.
 - Vertical & horizontal expansion joints-configuration, size & locations
 - Rain water penetration problems and solutions.
 - Thermal bridging at exterior wall system and rating of insulation.
 - Condensation analysis and proper installation of wall insulation.
- Detailing and specifications of exterior wall system:
 - Adjustable masonry tie selection and proper spacing.
 - Selection of flashing material and weep holes spacing.
 - Cavity wall system drainage design.
 - Mortar mix specifications and proper tooling of joints.
- Engineering design of wall systems:
 - Structural analysis of walls including wind load and deflection limits.
 - ACI 530 Code, Anchored veneer chapter requirements.
 - Design of building envelopes including air and vapor barriers.
 - Innovation with insulated composite backup panel system.
- Brick veneer installation, field inspections and quality control.

Michael G. Gurevich, structural engineer-masonry consultant, will present the seminar.

Mr. M. Gurevich has developed high quality Brick Masonry technical seminars for design and construction professionals, who are presented at the NYC BDC on regularly published schedules. Over the past 28 years, he has presented these seminars to over 2,000 groups of architects, engineers, developers, and contractors involving over 52,750 people. **Seminar meets requirements for 1 shw Learning Unit with the AIA Continuing Education System. Provider #G 128, Program #BIA024.**



The New York State Society of Professional Engineers, Inc.
Professional Engineers in Construction



Presents this

Certificate of First Prize

*For Earning First Prize in Mechanical Engineering Technology Project Category,
of the College Projects Exhibition at the
2013 Engineering EXPO; the PEs in Construction Group [PEC] of the
NYS Society of Professional Engineers, honor*

Team Leaders: Giancarlos Llanos, Kee Park

Team Vice Leader: Rony Vargas

*Team Members: Jose Devares, Anthony Soehngen, Sungheon Hwang, Christopher Reese, Yan Xu, Mark Perez,
Yao Agoudaui, Denis Milichnikov, Isaac Morocho, Ryan Naraine.*

Mechanical Engineering Technology, Queensborough Community College

*Chairman of PEC, V.P.
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Dr. James J. Yarmus P.E.*

Presented on, April 7, 2013

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