

Queens Chapter New York State Society of Professional Engineers The Drawingboard

April 2015

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President's Message

George Tavoulaareas, P.E.

President gtpe@msn.com

In last month's newsletter I discussed the alleged fraudulent activity by insurance companies, unlicensed engineers, engineering firms and others against Hurricane Sandy victims who were cheated out of millions of dollars in denied/reduced flood insurance claims. Engineers and engineering firms were hired by insurance companies to assess the physical condition of these damaged homes were not licensed to practice engineering in NY state. Engineering assessment reports were altered to benefit insurance companies and smaller insurance payouts were then made to the homeowners. Due to public and political pressure, FEMA has now agreed to open and review every insurance claim filed by homeowners affected by Hurricane Sandy amid accusations that damaged assessment reports were fraudulently altered by unlicensed engineers.

Louise Doyle, P.E., F.NSPE passed away April 5, 2015 after battling cancer for several years. Louise was not only a very active member of the National Society of Professional Engineers (NSPE), past NYSSPE President, and active local member for years, but she is also a well-respected engineer across the country. Louise was also very active in The Practicing Institute of Engineering Education (PIE) and The Foundation for Engineering Education (FEE). We will all miss Louise. May her memory be eternal.

Next General Membership Meeting

The next general membership meeting will be held on Thursday April 23, 2015 at 6:15pm. at 422 Weaver Ave in Ft. Totten, NY

The admission fee is \$20 for members and \$30 for non members.

6:15-7:00pm buffet dinner

Immediate Past Presidents

Chris Petallides, P.E.	2008/2010 2004/2005 1998/2000 (718) 961-4342
Brian Flynn P.E.	2006/2008 (718) 707-0416
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Xenophon Caviris, P.E.	(516) 752-1687
Peter Boudouvas, P.E.	(212) 594-4340
Robert Weiner, P.E.	

7:00-7:30pm general membership meeting

7:30-8:30pm Ryan Scall and Kevin Mahoney of Premium Technical Services will discuss helical pile uses design and installation.

Presentation Outline

Premium Technical Services has been serving the North East for over 32 years with foundation products and consulting services. Over the years we have assisted many engineers, architects, and contractors with numerous commercial, residential, and industrial projects in both tension and compression applications utilizing helical piles. This presentation aims to provide engineers and architects with the knowledge to safely and effectively use helical piles in the design of various structures. Topics to be covered include the history of helical piles, helical pile types, specialty applications, and the specifications, design, and capacities of helical piles.

Super Saturday STEM Expo

Moshe Crone
Logistics Coordinator
[917.733.9816](tel:917.733.9816)

Hello!

The **SUPER SATURDAY STEM EXPO** will take place on **SATURDAY, MAY 16** at the **Harlem Armory**. We invite your organization to participate as an exhibitor this year. See the attached FAQ sheet for exhibitors and [fill out the commitment form](#) to reserve your space here (submit no later than April 16).

Any hands on demonstrations for our students would be **AMAZING** and take our event to the next level for our children and community.

The Super Saturday STEM Expo is a free, family event featuring 100+ hands-on Science, Technology, Engineering and Math (STEM) exhibits in the 50,000 square foot Harlem Armory. Public school students (Pre K - Grade 12) and professionals exhibit together in a unique event that showcases STEM knowledge of Harlem students and renowned organizations around the city. The 2015 expo is produced by **Manhattan's Community School District 5**, with support from Harlem Children's Zone and Abyssinian Development Corporation. This will be the 8th Super Saturday event to take place in Harlem since 2008. Watch [the video](#) and see [the photo gallery](#). Visit www.supersaturdaySTEMexpo.org for updates on this year's event.

Educating Tomorrow's Engineers Act

*Arielle Eiser, Senior Manager
NSPE Government Relations*

On February 10, 2015, Representative Paul Tonko (NY-20) with lead cosponsors Representative David McKinley, P.E. (WV-1) and Representative Joe Kennedy (MA-4) introduced the Educating Tomorrow's Engineers Act. This bipartisan legislation, H.R. 823, which emphasizes the importance of the E in STEM, consists of four main components. If enacted H.R. 823 would:

1. Ensure that states have the ability to integrate engineering design skills and practices into their existing science standards - without requiring states to establish a separate set of standards specifically for engineering.
2. Allow states to award grants to support professional development and instructional materials for STEM education.
3. Give states critically needed flexibility to support engineering curricula by expanding a number of existing Elementary and Secondary Education Act grant programs to include engineering education.
4. Expand current math and science research to include engineering education.

The Educating Tomorrow's Engineers Act aims to increase student achievement and interest in engineering and to align K-12 curricula with the skills needed in the 21st century workforce. To this end, H.R. 823 removes barriers at the federal level that prevent schools from expanding math and science curricula to include engineering design skills.

This legislation does not create any new duplicative STEM programs. It simply gives states that wish to expand engineering education the tools they need to do so.

Contact your Congressperson to urge them to cosponsor H.R. 823, the Educating Tomorrow's Engineers Act, today!

Click the link below to log in and send your message:

<https://www.votervoice.net/BroadcastLinks/TnWbHneDGwd8sPVVziTytA>

Energy Code Enforcement

*Marissa Vaish, RA
Renewable Energy Consultant*

We are developing a New York State Energy Code Enforcement Manual for NYSERDA, which will be made available to code jurisdictions statewide as a reference guide for their energy code enforcement practices. We are organizing a volunteer Technical Advisory Group of Energy Code and Code Enforcement subject matter experts to provide input on and advise the development of the Manual. The group is expected to convene in May, 2015 and have periodic involvement through December, 2016. This is a unique opportunity to have input into the energy code enforcement process in New York State.

We would appreciate if New York State Society of Professional Engineers – Queens Chapter would nominate potential participants, and distribute the attached ECEM TAG Application Form to your nominees. To be considered for the position, we require the nominees to submit their resume and application form by April 24, 2015 to: NYSECE@vidaris.com

BUILDINGSNY

Rich Russo
Industry Vice President
richrusso@buildingsny.com
[203-840-5866](tel:203-840-5866)

Get your **FREE ticket** to attend **BulidingsNY**, April 28 – 29 at the Javits Center in NYC? Register today and you will be entered for a chance to win tickets to a Yankees game.

[Click here and register for FREE.](#)

BuildingsNY is the event to see everything you need to SAVE MONEY on your building with more new exhibitors, products, and education than ever before. Don't miss:

- The newest products and services from over 400 new and returning **exhibitors**
- **Two days of robust education** developed by key industry associations including: ABO, BOMA/NY, CHIP, AIA, and NYARM
- Even more Show Specials and deals offered exclusively to BuildingsNY attendees
- PLUS free bagels & lox cream cheese spread each morning. Sponsored by **United Metro Energy Corp.**

Please join me in New York at the Javits this April 28-29 for BuildingsNY. If I can assist you in any way please call me at [203-840-5866](tel:203-840-5866) or send me an email at richrusso@buildingsny.com.

NYC Rules Update

Proposed Rules Governing the City of New York can be viewed at:

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

Please email me your comments regarding any of the rules.

Link of the Month

http://www.salemnews.com/news/local_news/ipswich-s-choate-bridge-honored-as-civil-engineering-landmark/article_fa668c6c-c915-5df2-9061-1ef6617578d1.html

http://www.stltoday.com/news/local/education/engineering-an-early-interest-in-stem/article_490c25a6-096c-5fae-bbf5-3972f37d9588.html

<http://www.prnewswire.com/news-releases/2015-architecture--engineering-ae-market-outlook-survey-results-revealed-300061376.html>

<http://www.mcny.org/exhibition/saving-place>

<http://www.nytimes.com/2015/04/04/nyregion/east-village-gas-explosion-reveals-problems-in-citys-inspection-system.html>

<http://www.nytimes.com/2015/02/21/your-money/an-engineer-creates-for-fun-after-a-lifetime-of-workaday-rules.html>

Proposed Bills

From: JWilcox@council.nyc.gov

Sent: 4/17/2015 2:05:42 P.M. Eastern Daylight Time

Subj: Proposed Int. No. 13 and Proposed Int. No. 14.

Hello,

I have attached updated versions of Proposed Int. No. 13 and Proposed Int. No. 14. While these bills are still being reviewed, we are interested in gathering feedback. Please send any questions/comments you may have as soon as possible as we are hoping to age these bills on Monday.

Thank you,
Jenn Wilcox

Jennifer Wilcox
Legislative Attorney
New York City Council
250 Broadway, 14th floor
New York, NY 10007
[212.788.9070](tel:212.788.9070) (tel)
[212.788.9112](tel:212.788.9112) (fax)

1 2.4. The expiration date of such certificate.

2 **Exception:** Certificates issued on or before the effective date of the local law that added
3 this section need only satisfy the requirements of item 2.1 and either item 2.3 or 2.4.

4 3. If issued on or before January 1, 2020, the certificate is issued to an individual who
5 successfully:

6 3.1. Completes at least 30 hours of training in the following topics:

7 3.1.1. At least 24 hours of training in energy efficiency strategies for the operation
8 and maintenance of:

9 3.1.1.1. The building envelope;

10 3.1.1.2. Heating, ventilation, and air conditioning (HVAC) systems;

11 3.1.1.3. Electrical and lighting systems;

12 3.1.1.4. Domestic hot water systems;

13 3.1.1.5. Building automation systems;

14 3.1.2. At least 3 hours of training in energy benchmarking, including reading and
15 understanding utility bills; and

16 3.1.3. At least 3 hours of training in planned and preventative maintenance strategies
17 that building impact energy efficiency; or

18 3.2. Passes a practical or written examination that tests such individual's knowledge of
19 the topics identified in item 3.1.

20 4. If issued after January 1, 2020, the certificate is issued to an individual who passes a
21 practical or written examination that tests such individual's knowledge of the topics
22 identified in item 3.1.

1 5. The certificate is required to be renewed at intervals no longer than five years.

2 6. Except as provided in item 8 and in addition to any other renewal methods, the certificate
3 can be renewed through completion of six or more hours of continuing education courses
4 covering topics identified in item 3.1 and that are approved by the program that issued
5 such certificate.

6 7. The program issuing the certificate does not require that continuing education courses for
7 certificate renewal be provided exclusively by a single provider.

8 8. The program issuing the certificate requires the certificate holder to successfully pass a
9 practical or written examination that tests such individual's knowledge of the topics
10 identified in item 3.1 by no later than the first renewal of such certificate that occurs after
11 January 1, 2020.

12 9. The program issuing the certificate offers reasonable accommodations to individuals who
13 identify as being unable to meaningfully communicate in English.

14
15 **COVERED BUILDING.** As it appears in the records of the department of finance: (i) a
16 building that exceeds 50,000 gross square feet (4645 m²), (ii) two or more buildings on the same
17 tax lot that together exceed 100,000 gross square feet (9290 m²), or (iii) two or more buildings
18 held in the condominium form of ownership that are governed by the same board of managers
19 and that together exceed 100,000 gross square feet (9290 m²).

20 **Exception:** The term "covered building" shall not include real property classified as class
21 one pursuant to subdivision one of section 1802 of the real property tax law of the state of
22 New York.

1 **OPERATE.** To control the normal functioning of a base building system with responsibility for
2 its energy use and/or energy consumption.

3 **SUPERVISION.** Responsible control exercised by the holder of an appropriate certificate from
4 an approved program over individuals who operate the base building systems of a covered
5 building. Such individuals responsible for the building operations may be in the direct employ of
6 the owner or may be in the employ of the owner pursuant to the terms of a contract to provide
7 such services.

8 **§ 28-317.2 Building energy efficiency training (BEET) certificate requirement for covered**
9 **buildings.** An owner of a covered building shall comply with items 1 through 4 of this section.

10 1. The owner of a covered building shall ensure that the base building systems of such
11 building are operated by or under the supervision of an individual who holds a current
12 valid BEET certificate.

13 **Exceptions:**

14 1. A covered building that has received an EPA Energy Star certification for at least
15 two of the three years preceding the filing of the compliance report required by
16 item 4 of this section; provided that proof of such Energy Star certification shall
17 be maintained at the building and provided to the department with the applicable
18 compliance report.

19 2. The department may allow the new owner of a building additional time, not to
20 exceed one year from the required compliance date set out in the department's
21 rules, to achieve compliance with this article.

1 2. The required certificate holder must be on the staff of the covered building or be regularly
2 involved in the day-to-day supervision of the base building operations at the covered
3 building. Such certificate holder must be present at the building on a regular basis, but
4 need not be present at all times while base building systems are in operation.

5 3. A copy of the required certificate holder's BEET certificate must be kept on file at the
6 building and must be made available to the department upon the department's request.

7 4. The owner of a covered building must submit a report documenting compliance with this
8 article at least once every three years.

9 4.1. Such report must be submitted in a manner and time set forth by the department,
10 along with a fee as specified in the rules of the department.

11 4.2. Such report shall include, but shall not be limited to, the name of the required
12 certificate holder, the unique identifier for such certificate holder as shown on such
13 certificate holder's BEET certificate, the issuance date and the expiration date of such
14 certificate, and the name and contact information of the program that issued such
15 certificate.

16 4.3. The department shall promulgate a rule establishing a schedule for filing such reports
17 for covered buildings.

18
19 **§ 28-317.3 Advisory board.** By no later than 90 days after the effective date of this local law,
20 the commissioner shall create an advisory board comprising, at a minimum, engineers, architects
21 and representatives of the real estate industry, labor and environmental organizations. Such board
22 shall provide advice and recommendations to the department relating to the approval of

1 programs for issuing BEET certificates. Such advice and recommendations shall be provided to
2 the department by no later than November 1, 2015, and shall be provided thereafter either on
3 such board's initiative or at the request of the commissioner.

4 **§ 28-317.4 Initial compliance dates.** Covered buildings shall comply with the applicable
5 provisions of this section as follows:

6 1. Covered buildings exceeding 500,000 gross square feet (46 452 m²), as indicated in the
7 records of the department of finance, shall be in compliance with this article no later than
8 January 1, 2017 or, where the initial temporary certificate of occupancy for a new
9 building of that size is issued after January 1, 2017, no later than the date of issuance of
10 such temporary certificate of occupancy;

11 2. Covered buildings exceeding 130,000 gross square feet (12 077 m²) but not exceeding
12 500,000 gross square feet (46 452 m²), as indicated in the records of the department of
13 finance, shall be in compliance with this article no later than January 1, 2018 or, where
14 the initial temporary certificate of occupancy for a new building of that size is issued
15 after January 1, 2018, no later than the date of issuance of such temporary certificate of
16 occupancy;

17 3. Covered buildings exceeding 75,000 gross square feet (6968 m²) but not exceeding
18 130,000 gross square feet (12 077 m²), as indicated in the records of the department of
19 finance, shall be in compliance with this article no later than January 1, 2019 or, where
20 the initial temporary certificate of occupancy for a new building of that size is issued
21 after January 1, 2019, no later than the date of issuance of such temporary certificate of
22 occupancy; and

1 4. Covered buildings exceeding 50,000 gross square feet (4645 m²) but not exceeding
2 75,000 gross square feet (6968 m²), as indicated in the records of the department of
3 finance, shall be in compliance with this article no later than January 1, 2020 or, where
4 the initial temporary certificate of occupancy for a new building of that size is issued
5 after January 1, 2020, no later than the date of issuance of such temporary certificate of
6 occupancy.

7 § 2. This local law shall take effect immediately.

LS 502
Int. 1181-2013
4/17/15 1149a

Proposed Int. No. 14-A

By Council Members Levin, Constantinides, Koo, Levine, Palma, Johnson, Mendez, Rosenthal, Arroyo, Lancman, Kallos, Rodriguez, Torres, Vallone, Reynoso, Koslowitz, Crowley, Chin, Van Bramer, Miller, Treyger, Garodnick, Rose, Lander, Richards, Vacca, Maisel, Cohen, Dromm, Gibson, Barron and Ferreras

A LOCAL LAW

To amend the New York city mechanical code, in relation to sizing heating systems and equipment

Be it enacted by the Council as follows:

1 Section 1. Article 103 of the administrative code of the city of New York is amended by
2 adding a new section 28-103.25 to read as follows:

3 § 28-103.25 Heating systems and equipment sizing working group. By no later than 90 days
4 after the effective date of this local law, the commissioner shall create a working group to study
5 and make recommendations to the department on standards for conducting field measurements
6 for determining the appropriate size of heating systems and equipment.

7
8 § 28-103.25.1 Findings and recommendations. Such working group shall report its findings
9 and recommendations to the mayor, the commissioner and the speaker of the council by no
10 later than February 1, 2016.

11
12 § 28-103.25.2 Membership. Such working group shall comprise, at a minimum, engineers,
13 architects, and representatives of the real estate industry and environmental organizations.
14 The members of such working group shall be selected by the commissioner.

15
16 § 2. Section 106.6 of the New York city mechanical code, as amended by local law
17 number 141 for the year 2013, is amended to read as follows:

18 **106.6 Heating systems.** Construction documents for heating systems shall include the
19 temperature to be maintained in every room, and the [output capacity in BTU per hour of the
20 central heating source.] total required heating output capacity in Btu/h required by the spaces
21 served by the heating system, as determined by load calculations performed in accordance with
22 Section 312 and the *New York City Energy Conservation Code*. Construction documents shall
23 indicate the procedure used to calculate heating loads in accordance with the *New York City*
24 *Energy Conservation Code*, and shall show the results of peak heating load calculations, total
25 design output of the heating system, and the total design output of the specified heating
26 equipment relative to the total peak heat demand, at a minimum, in a format prescribed by the

1 department. Such calculations shall be based on peak temperature-driven heat loss through the
2 building envelope, including the following:

- 3
- 4 1. Thermal transmission through the building envelope, accounting for all exterior
5 surfaces, thermal bridging of frames and mullions, exposed slab edges, parapets,
6 balconies, concrete columns, steel members, and any other significant thermal
7 connection between the conditioned space and the underground and above ground
8 outdoor environment;
- 9
- 10 2. Constant or permanent internal heat gains known to be present in the heated zone;
- 11
- 12 3. Infiltration (accounting for leakage around all doors, windows, and other envelope
13 penetrations, and for air barriers included in the design);
- 14
- 15 4. Cold processes or equipment in the zone that absorbs heat;
- 16
- 17 5. Psychrometric processes, including reheat, humidification, and air mixing;
- 18
- 19 6. Heat transfer through piping and ductwork walls;
- 20
- 21 7. Duct leakage;
- 22
- 23 8. Outside air heating loads calculated for the particular system configuration and
24 weather data (accounting for all specified mechanical ventilation calculated with the
25 assumption that the windows are closed); and
- 26
- 27 9. Inherent system inefficiencies such as damper leakage.

28
29 **Exceptions:**

- 30
- 31 1. For steam distribution systems, peak temperature-driven heat loss may be calculated
32 using equivalence of direct radiation (EDR) of the building's radiators, convectors,
33 and fan-assisted heaters.
- 34
- 35 2. Heating systems designed to modulate heating output continuously with a minimum
36 of a five to one turn-down ratio or in at least four steps between 30 percent and 100
37 percent (inclusive), with no part-load efficiency less than 80 percent of full-load
38 efficiency shall not be required to provide calculations in accordance with this
39 section, unless requested by the department.
- 40
- 41 3. Oil-burning heating systems which incorporate a modulating aquastat and a time-
42 delay relay.
- 43

1 4. Steam systems designed with a variable pressure system shall not be required to
2 provide calculations in accordance with this section, unless requested by the
3 department.

4
5
6 5. System replacement where the output capacity is based on field measurements of
7 actual system heating output operation over time conducted in accordance with an
8 industry standard, or a standard recommended by the working group established
9 under section 28-103.25 of the *Administrative Code*, approved by the department.

10
11 § 3. Section 312 of the New York city mechanical code, as amended by local law number

12 141 for the year 2013, is amended to read as follows:

13 **SECTION MC 312**
14 **HEATING AND COOLING LOAD CALCULATIONS**

15
16 **312.1 Load calculations.** Heating and cooling system design loads for the purpose of sizing
17 systems, appliances and equipment shall be determined in accordance with the procedures
18 described in the ASHRAE Handbook of Fundamentals and the *New York City Energy*
19 *Conservation Code*. Design loads for commercial buildings, as defined by the *New York City*
20 *Energy Conservation Code*, shall be determined in accordance with the *New York City Energy*
21 *Conservation Code*. Design loads for residential buildings, as defined by the *New York City*
22 *Energy Conservation Code*, shall be determined in accordance with the *New York City Energy*
23 *Conservation Code* or the ASHRAE Handbook of Fundamentals. Heating and cooling loads
24 shall be adjusted to account for load reductions that are achieved when energy recovery systems
25 are utilized in the HVAC system in accordance with the ASHRAE Handbook - HVAC Systems
26 and Equipment. [Alternatively, design loads shall be determined by an approved equivalent
27 computation procedure, using the design parameters specified in Chapter 3 of the *Energy*
28 *Conservation Construction Code of New York State*.] Heating and cooling system design loads
29 for the purpose of sizing systems, appliances and equipment shall also comply with the
30 requirements of Section 1204 of the *New York City Building Code*.

31
32 **312.2 Equipment sizing.** Heating, cooling, and ventilation system equipment shall be sized in
33 accordance with the *New York City Energy Conservation Code*.

34
35 § 4. This local law takes effect immediately after it becomes law, except that (A) sections
36 2 and 3 take effect August 1, 2016, (B) this local law shall not apply to construction work related
37 to applications for construction document approval filed prior to August 1, 2016, and (C) the

- 1 commissioner of buildings may take such measures as are necessary for its implementation,
- 2 including the promulgation of rules, prior to such effective date.

JCH/JW
LS # 97
4/15/2015 11:14AM

PRESENTED BY: COMMUNITY SCHOOL DISTRICT 5,
HARLEM CHILDREN'S ZONE & ABYSSINIAN DEVELOPMENT CORPORATION

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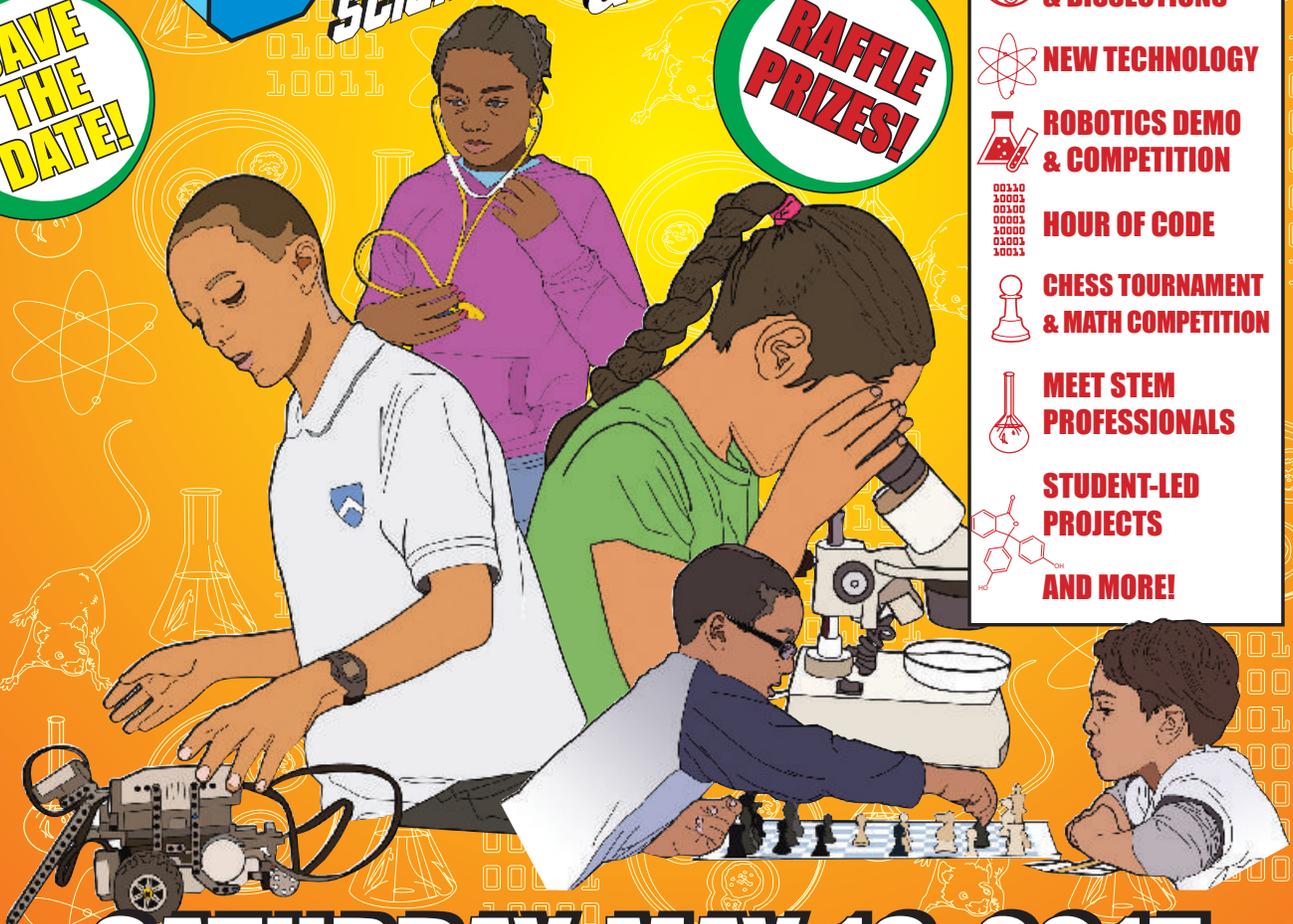
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SATURDAY, MAY 16, 2015
11:00 AM - 3:00 PM

HARLEM ARMORY • 40 West 143rd Street (Between Lenox & 5th Avenue)
New York, NY 10037 • Contact: (212) 769-7500 x236 (School District 5)
www.supersaturdaySTEMexpo.org • <http://csd5.nycdoe.org>

New York State Energy Code Enforcement Manual

Technical Advisory Group Member Application

Vidaris is organizing a volunteer Technical Advisory Group of subject matter experts who will provide input regarding the needs of the Code Enforcement community and advise on the development of the NYS Energy Code Enforcement Manual. The group is expected to convene in May, 2015 and have periodic involvement through December, 2016. **To be considered for the position, submit your resume and this form by April 24, 2015 to: NYSECE@vidaris.com**

Name	Click here to enter text.
Email	Click here to enter text.
Phone	Click here to enter text.
Address	Click here to enter text.
	Click here to enter text.
Affiliation	(check all that apply)
<input type="checkbox"/> New York Department of State	<input type="checkbox"/> American Institute of Architects (AIA)
<input type="checkbox"/> New York State Fire Prevention and Building Code Council	<input type="checkbox"/> ASHRAE
<input type="checkbox"/> New York State Building Officials Conference (NYSBOC)	<input type="checkbox"/> Building Industry Association of New York City (BIA)
<input type="checkbox"/> Code Enforcement Official	<input type="checkbox"/> International Code Council (ICC)
<input type="checkbox"/> Municipal Leader	<input type="checkbox"/> Architect
	<input type="checkbox"/> Engineer
	<input type="checkbox"/> Other (please describe): Click here to enter text.

Identify your experience with the following climate zones and building types:

	Commercial				Institutional		
	Large Office >50,000 SF > 3 stories	Medium Office 50,000 SF – 5,000 SF <3 stories	Small Office <5,000 SF 1 story	Standalone Retail + Strip Mall	Primary School	Secondary School	Hospital and/or Healthcare
4A – eg: New York City	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5A – eg: Albany	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6A – eg: Binghamton	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Hospitality			Residential		
	Small Hotel <75 rooms <5 stories	Large Hotel >75 rooms >5 stories	Restaurant	High-rise Residential >35,000 SF >5 stories	Mid-rise Residential <35,000 SF <5 stories	Low-rise Residential <10,000 SF <3 stories
4A – eg: New York City	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5A – eg: Albany	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6A – eg: Binghamton	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I have experience with the following:

Envelope	HVAC		Lighting
<input type="checkbox"/> Steel frame walls	<input type="checkbox"/> Commissioning	<input type="checkbox"/> Kitchen exhaust	<input type="checkbox"/> Daylight responsive controls
<input type="checkbox"/> Wood frame walls	<input type="checkbox"/> DX RTU	<input type="checkbox"/> Laboratory exhaust	<input type="checkbox"/> Vacancy sensors
<input type="checkbox"/> Mass walls	<input type="checkbox"/> Air cooled	<input type="checkbox"/> FCU	<input type="checkbox"/> Garage lighting + controls
<input type="checkbox"/> Metal buildings	<input type="checkbox"/> Water cooled	<input type="checkbox"/> Chilled beams	<input type="checkbox"/> Exterior
<input type="checkbox"/> Attics	<input type="checkbox"/> PTAC/PTHP	<input type="checkbox"/> Refrigeration	<input type="checkbox"/> Facade
<input type="checkbox"/> Flat roofs	<input type="checkbox"/> WLHP	<input type="checkbox"/> Computer room AC	<input type="checkbox"/> Controls
<input type="checkbox"/> Metal frame windows	<input type="checkbox"/> Geothermal HP	<input type="checkbox"/> Economizer	<input type="checkbox"/> RCR
<input type="checkbox"/> Curtain walls	<input type="checkbox"/> Chillers	<input type="checkbox"/> Water-side	<input type="checkbox"/> Building Area Method
<input type="checkbox"/> Storefront systems	<input type="checkbox"/> Cooling towers	<input type="checkbox"/> Air-side	<input type="checkbox"/> Space by Space Method
<input type="checkbox"/> Skylights	<input type="checkbox"/> Boilers	<input type="checkbox"/> Energy recovery -air	<input type="checkbox"/> Efficacy
	<input type="checkbox"/> Radiant heating	<input type="checkbox"/> Energy recovery -service HW	<input type="checkbox"/> Track lighting
			<input type="checkbox"/> Low-voltage lighting
			<input type="checkbox"/> Transformer lighting

Select preference/availability for participation:

- In-person meetings in New York City
 In-person meetings in Albany
 Web-based conferences
 Teleconferences

Energy Code and Code Enforcement experience:

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