

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

April 2016

Volume 16, Number 4

In This Issue

- Meeting Notice
- Presentation Outline
- City and State Rules
- Building Expo
- Stormwater Management
- Boiler Regulations
- NYC M/WBE Regulations
- SBS Resiliency Webinar
- Sponsors, Vendors and Professional Services

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President's Message

George Tavoulareas, PE
gltp@msn.com

Past President of the Queens Chapter, Salvatore Galletta, PE has been selected to receive the NYSSPE Professional Engineer's in Government (PEG) award- 2016. This award recognizes the achievements of a professional engineer in government. The award will be presented to Sal at our annual conference in June. Sal has been a leader in our profession for many years and has dedicated most of his life to the advancement of engineering, the society and to our chapter. His current mission is to convince ABET that engineering students must learn about professionalism, licensure, ethics and the role of the engineer in society. Sal is a very persistent individual and I'm confident these changes will be made to the engineering curriculum.

Next General Membership Meeting

The next general membership meeting will be held on Thursday April 28, 2016 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
7:00-7:30pm General Membership Meeting
7:30-8:30pm Presentation – George Doukas President of CGI Northeast will present "Methyl-Acrylate Injection Grouting"

Presentation Outline

The CGI resin-gel product is not a urethane or grout. It is of a methyl-acrylate composition. The two component hydrophilic resin system is injected through bored holes (pairs of ¾ inch diameter holes – twist in tools, or single one inch diameter holes

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for the air compressed auto injection tool) in concrete, brick or rubble wall foundation walls. The uniqueness of this system is the water-like viscosity. The two components when combined (A – hydrophilic resin w/ accelerator and B – water with catalyst), have a slightly higher viscosity than water (water being 1 CPS, and our two components A&B are 2-3 CPS). Under pressure, these components will migrate through the tiniest cracks, fissures, and water pockets within the depth of the concrete wall or concrete floor. Upon the calculated setting time (as fast as five seconds for active leaks), the two components will become a gel, occupying volume within the depth of the structure and forming a gel on the positive side at the crack points of entry (between the wall and the soil). These components do not expand like a urethane, just occupy volume.

The system does not require ports (i.e., hydrocarbon steel) that often times remain embedded within the points of injection and will eventually corrode and allow water to intrude again. Rather, after our injection procedure is completed, our twist-in tools are taken out and the bored holes are closed with hydraulic cement. Another unique feature, is that our pumps are designed to pump out at pressures exceeding 3,200 psi to defeat hydrostatic water pressure conditions. Also, the automatic injection tool, which incorporated compressed air (to clean the bored hole and nozzle of the gun and for the nozzle to fit tightly in the hole), has one stainless steel tube within a larger one inch diameter tube (to individually inject the two components within the hole, and not mix with each other prior to reaching to the inside of the hole). Therefore, only single one inch diameter holes are bored as required.

NYC Rules Update

Proposed Rules for New York City can be viewed at the following link:

<http://rules.cityofnewyork.us/proposed-rules>

- [DOT Proposed Pedestrian Plaza Rules](#)
- [Proposed Rule for Public Communication Structures](#)
- [DEP Amendments to the Existing Engineering Criteria for Boilers and Water Heaters](#)
- [Amendment of Solar Energy Property Tax Abatement Rules](#)
- [Amendment of Highway Rules](#)
- [Penalties for Violation of Requirements Relating to Building Drinking Water Tanks \(Chapter 31\)](#)
- [Apartment and Guest Room Identification and Directional Markings and Signs Apartment, Guest Room and Stairwell Fire Emergency Markings](#)

Additional information can be found in the correspondence section below.

New York State Building Code Changes:

Please see attachments below for a notice of the adoption of new building codes.

Please email me your comments regarding any proposed or adopted rules.

Local Law 38-15 --

By Robert LoPinto, PE

Local Law Number 38 for the year 2015 amends Title 24 of the Administrative Code of the City of New York by increasing the threshold for boiler registrations from 2.8 million btu (mbtu) per hour to 4.2 mbtu per hour. In order to ensure that boilers that range from 2.8 mbtu per hour to 4.2 mbtu per hour are still subject to certain standards, including a combustion efficiency test, modified standards have been established in a new Section 2-05 ("Application for Registrations"). This newly created section sets forth the criteria that a registration that ranges from 2.8 mbtu per hour to 4.2 mbtu per hour must meet.

This rule also requires that these registrations are subject to the field verification process requirements set forth in Section 2-06.

Consistent with the above, DEP proposes amendments to Chapter 2 of Title 15 of the Rules of the City of New York, to apply certain standards for boilers that range from 2.8 mbtu per hour to 4.2 mbtu per hour, which were previously defined as certificates of operation and are now defined as registrations. Subjecting these boilers to the performance requirements set forth in this section will help to regulate and control emission sources.

Additional information can be found in the DEP attachment br >[CLICKING HERE](#)<.

Correspondance:

Begin forwarded message:

From: "Adgate, Mikelle" <MAdgate@dep.nyc.gov>
Subject: NYCDEP - Stormwater Management Program - Follow Up
Date: March 31, 2016 at 4:44:53 PM EDT

All,

We appreciate the opportunity to work with you to improve the health of NYC's waterways through the development and implementation of the City's Stormwater Management Program. A special thank you to those of you who were able to join us yesterday for the presentation and discussion on the Lot Size Soil Disturbance Threshold Study. This study is a critical step in the development of the program and we're looking forward to reviewing your questions and comments.

Please see attached for:

- Lot Size Soil Disturbance Threshold Study Presentation
 - Meeting notes
- MS4 Construction/Post Construction Quick Facts
- Draft scope of work for the NYC Lot Size Soil Disturbance Threshold Study

Comments on the scope of work (one set per organization) are due by Friday, April 29th.

Comments may be sent to:

Joe Monical
JMonical@dep.nyc.gov
[718-595-7712](tel:718-595-7712)

If you are willing to host a construction project site visit for DEP staff and consultants please also include:

- Contact information
- Site Address
- Development type (residential, commercial, etc.)
- Anticipated soil disturbance size
- Potential constraints to stormwater management implementation

[Note: attachments can be >[DOWNLOADED HERE](#)<.]

We will follow up later this spring with the final scope of work and a response summary to the comments we received. Please stay tuned for another meeting this fall where we will share results of all of the tasks that have been completed.

Best,
Mikelle

Mikelle Adgate | [Director, Stormwater Management Outreach](#) | NYC Environmental Protection
Bureau of Public Affairs and Communications
(O) [718.595.5578](tel:718.595.5578) | (C) [917.960.0391](tel:917.960.0391) | madgate@dep.nyc.gov



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For more information on networking, exhibitors and free education visit www.buildingsny.com. If I can assist you in any way, please call me at [203.840.5924](tel:203.840.5924), or send me an email at rpalermo@reedexpo.com.

Regards,

RJ Palermo
VP Show Manager, Brand Director
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SERVICE UPDATE

Installation of Drywells for Storm Water Disposal: Advance Notice and Inspection No Longer Required

Effective immediately, the Department no longer requires advance notification of a drywell installation. Additionally, the required Department inspections and spot checks done during an installation are no longer required. All other installation requirements remain.

Drywells are required for the on-site disposal of storm water for any new building or other substantial horizontal enlargement that is to be constructed on a property where no public street storm sewer or combined sewer is located directly in front of the property. This is a critical part of any development in the prevention of flooding adjacent properties and surrounding areas.

The Department's Drywell Pilot Project was designed to monitor the design and installation of drywells throughout Queens. Although the Department monitored various projects at random through site analysis, design and construction, site Engineers and Contractors were not relieved of their professional responsibility. After analyzing the results of the initiative, the Department has discontinued the program.

For additional information, please contact the Department's Customer Service Unit by phone at (212)393-2550 or by email at DOBCustomerService@buildings.nyc.gov.

POST UNTIL: September 30, 2016

From: "dos.sm.Codes.Training" <dosCodesTraining@dos.ny.gov>
Subject: BUILDING NEW YORK E-BULLETIN
Date: March 25, 2016 at 8:04:40 AM EDT
To: "dos.dl.listserv.Codes.NYSCodes" <dosNYSCodes@dos.ny.gov>



Building Standards and Codes

Ronald Piester AIA, Director

IMPORTANT ANNOUNCEMENT NYS Uniform Code and Energy Code Update

On March 9, 2016, the State Fire Prevention and Building Code Council completed major updates to the Uniform Fire Prevention and Building Code (Uniform Code) and State Energy Conservation Construction Code (Energy Code). The Uniform Code update incorporates the following documents by reference:

- 2015 International Building Code
- 2015 International Residential Code
- 2015 International Existing Building Code
- 2015 International Fire Code
- 2015 International Plumbing Code
- 2015 International Mechanical Code
- 2015 International Fuel Gas Code
- 2015 International Property Maintenance Code
- 2016 Uniform Code Supplement

The Energy Code incorporates the following documents by reference:

- 2015 International Energy Conservation Code
- 2013 ASHRAE 90.1
- 2016 Energy Code Supplement

Effective Date

A Notice of Adoption for the Uniform Code and Energy Code update will be published in the April 6, 2016 edition of the State Register, establishing the following implementation schedule:

Uniform Code Transition Period – beginning on April 6th, regulated parties submitting a complete building permit application may comply with either the current Uniform Code or newly adopted Uniform Code as described above. The transition period will last from April 6, 2016 until October 3, 2016. On October 3rd, the newly adopted Uniform Code will become fully effective.

Energy Code Effective Date – On October 3, 2016, the newly adopted Energy Code as described above will become formally effective. There is no transition period for the Energy Code.

Code Books

Local municipalities that submit their annual Code Enforcement and Administration report to the Division of Building Standards and Codes will receive copies of the newly adopted Uniform Code and Energy Code books.

In addition to code books, municipalities will receive a one year electronic subscription to the newly adopted codes and a one year Governmental Membership to the International Code Council. Copies of the 2015 International Codes and many other incorporated standards can be purchased from the International Code Council at www.iccsafe.org, or call (888) 422-7233. The 2016 Uniform Code and Energy Code Supplements will be available to download from our website (www.dos.ny.gov/DCEA).

A Division of Department of State





THE CITY OF NEW YORK

Mayor Bill de Blasio has pledged to ensure that the City levels the playing field for Minority and Women-Owned Businesses (M/WBEs) to fairly compete for City contracts.

This administration has set aggressive goals, including a **commitment to award more than \$16 billion to M/WBEs** over the next decade, and is changing agency practices to ensure that M/WBEs are receiving the full benefits of the program by increasing the number and size of awards to qualified firms.

As part of the effort to strengthen the City's M/WBE Program, the City has contracted MGT of America, Inc. to conduct a new disparity study to explore potential changes to its M/WBE Program.

We are encouraging all New York City business owners, both M/WBE and non-M/WBE, to provide information about their experiences doing business, or attempting to do business, with the City.

We need your help!

Please participate in this important study by attending one of the following [community meetings](#):

Date	Time	Location
Monday, May 9	1 - 3 p.m.	BROOKLYN National Grid 1 Metrotech Center
Tuesday, May 10	5 - 7 p.m.	STATEN ISLAND Staten Island Borough Hall 10 Richmond Terrace
Wednesday, May 11	6 - 8 p.m.	MANHATTAN MIST Harlem 46 West 116th Street
Thursday, May 12	5 - 7 p.m.	BRONX Hostos Community College 500 Grand Concourse
Friday, May 13	4 - 6 p.m.	QUEENS NYC Department of Design & Construction 30-30 Thomson Avenue

RSVP To Attend

Your assistance will help us improve the City's M/WBE Program and tackle inequality in the City of New York.

This is our opportunity to reevaluate the M/WBE Program and ensure that we are using every lever at our disposal to further tackle inequality in the City of New York and build one city, rising together.

We look forward to seeing you at one of the meetings!

Maya Wiley
Counsel to the Mayor and M/WBE Director

PREPARE YOUR BUSINESS FOR EMERGENCIES!



Attend our upcoming webinar to better prepare your organization and employees for emergencies.

You will learn how to:

- **Stay in business:** Identify your key business functions, employees, and documents.
- **Protect your investments:** Understand how to protect your assets and navigate insurance processes.
- **Be ready for action:** Create an business continuity plan for your business and your employees.

Date: Tuesday, April 26

RSVP

Time: 12 - 1 p.m.

[Add to Calendar](#)

This webinar is open to the public. We welcome businesses, non-profits, and community organizations that are interested in resiliency.



METROPOLITAN ENGINEERING SOCIETIES COUNCIL, INC.

in the interest of the Engineering Profession
P.O. Box 1981, New York, New York 10008-1981

REPLY TO: Wasyl Kinach, PE
wkinach@juno.com
917-929-2127

April 25, 2016

Jane Emmet, M.A.
Director of Accreditation Operations
ABET
415 N. Charles St.
Baltimore, MD 21201

Dear Ms. Emmet,

In response to ABET's request for input on ABET's proposed changes to the Engineering Curriculum, i.e. Criterion 3 and Criterion 5, the Metropolitan Engineering Societies Council (MESC), offers the attached Resolution. This Resolution reflects the sentiment of the Engineering Community of New York City.

MESC is comprised of over 20 Engineering Societies. Representatives of these Engineering Societies meet monthly to discuss issues relevant to the Engineering Profession. The mission of MESC is to promote the Engineering Profession in New York City.

Of particular interest to MESC is the education of Engineering students, the future of the Engineering Profession. To ensure that future Engineers have the skill sets necessary to address the many challenges they will face, it is imperative that the Engineering curriculum be revamped. We applaud ABET for undertaking this necessary task. We now ask ABET to incorporate the recommendations stated in the enclosed Resolution.

Best Regards,

Wasyl Kinach, PE
Chair, MESC

Representing Chapters and Sections of the following professional organizations in the Metropolitan New York area:

Association for the Advancement of Cost Engineering
American Society of Civil Engineers
American Society of Plumbing Engineers
Association of Energy Engineers
Institute of Electrical and Electronics Engineers
New York Academy of Sciences
Society of Fire Protection Engineers
Municipal Engineers City of New York

American Institute of Aeronautics and Astronautics
American Society of Heating, Refrigerating and Air-Conditioning Engineers
American Society of Safety Engineers
Illuminating Engineering Society
Institute of Industrial Engineers
New York State Society of Professional Engineers
Society of Women Engineers
American Nuclear Society

American Institute of Chemical Engineers
American Society of Mechanical Engineers
Association for Facilities Engineering
Ingénieurs et Scientifiques de France
National Association of Corrosion Engineers
Society of Automotive Engineers
American Engineering Alliance



METROPOLITAN ENGINEERING SOCIETIES COUNCIL, INC.

in the interest of the Engineering Profession
P.O. Box 1981, New York, New York 10008-1981

REPLY TO: Wasyl Kinach, PE
wkinach@juno.com
917-929-2127

RESOLUTION

WHEREAS: Engineering students are the future of the Engineering Profession.

WHEREAS: Engineering students will be entering a complex and challenging job market.

WHEREAS: The Engineering Curriculum has remained static despite the many technological advancements of recent years.

WHEREAS: The Engineering Curriculum has not been significantly updated for over two decades (since the 1990's when ABET published its desired outcomes criteria).

WHEREAS: There is a general understanding in the Engineering Profession that we have to revamp the Engineering Curriculum.

WHEREAS: ASCE, NSPE and other Engineering organizations have issued various proposals to address the inadequacy of the present Engineering Curriculum.

THEREFORE: It is resolved that the Engineering Curriculum be revamped to include those non-technical skills that will empower Engineering graduates to address the complex challenges of today's modern Engineering practice.

THEREFORE: It is further resolved that, as a minimum, Engineering students be exposed to the following issues and topics:

1. The role of the Engineer in Society
2. Professionalism
3. Licensure
4. Ethics
5. Leadership
6. Communications
7. Team work
8. Business/finance principles

Representing Chapters and Sections of the following professional organizations in the Metropolitan New York area:

Association for the Advancement of Cost Engineering
American Society of Civil Engineers
American Society of Plumbing Engineers
Association of Energy Engineers
Institute of Electrical and Electronics Engineers
New York Academy of Sciences
Society of Fire Protection Engineers
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American Institute of Aeronautics and Astronautics
American Society of Heating, Refrigerating and Air-Conditioning Engineers
American Society of Safety Engineers
Illuminating Engineering Society
Institute of Industrial Engineers
New York State Society of Professional Engineers
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American Nuclear Society

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in the interest of the Engineering Profession
P.O. Box 1981, New York, New York 10008-1981

REPLY TO: Wasyl Kinach, PE

wkinach@juno.com

917-929-2127

9. Client Relations
10. Business Development
11. Contract risk
12. Engineering: a Professional service, not a commodity

THEREFORE:

It is further resolved that the Engineering Curriculum should include adequate educational training spread over the students' undergraduate studies to ensure that Engineering students understand their role as members of a noble Profession with its attendant obligations to Society and the Engineering Profession. The Engineering students should graduate from their studies with a clear understanding that they are Engineering Professionals who are fully equipped to forcefully advocate on behalf of the Engineering Profession and Society.

Representing Chapters and Sections of the following professional organizations in the Metropolitan New York area:

Association for the Advancement of Cost Engineering
American Society of Civil Engineers
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Association of Energy Engineers
Institute of Electrical and Electronics Engineers
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Begin forwarded message:

From: "Jen Miller" <jamiller@nysspe.org>
Subject: FW: NYSDEC Recruiting for Operations Engineers
Date: April 7, 2016 at 10:12:22 AM EDT
To: "Jen Miller" <jamiller@nysspe.org>

Hi All - FYI... NYSDEC is recruiting Civil Engineers if you know anybody interested. Thanks Jen

From: Passmann, Randall J (DEC) [<mailto:randall.passmann@dec.ny.gov>]
Sent: Wednesday, April 06, 2016
To: Jen Miller <jamiller@nysspe.org>
Subject: FW: Recruiting for Operations Engineers

Hi Jennifer,
Below is another email wherein the NYSDEC is recruiting Civil Engineers.
Thanks, Randy

Randall J. (Randy) Passmann, P.E.
Environmental Engineer II Civil, Division of Operations, Bureau of Design and Construction

New York State Department of Environmental Conservation
625 Broadway, 3rd Floor, Albany, NY 12233-5252
P: [518-402-9084](tel:518-402-9084) | F: [518-402-9053](tel:518-402-9053) | Randall.Passmann@dec.ny.gov <<mailto:Randall.Passmann@dec.ny.gov>>

From: Miller, Thomas (DEC)
Sent: Tuesday, April 05, 2016 12:23 PM
Subject: Recruiting for Operations Engineers

The status of the lists for Environmental Engineer (Civil): G15 Entry Level Traineeships, G20 Intern Engineer and G24 PE are not good. The recent hiring effort we made for BLS designer showed us we need to do more outreach to get qualified candidates on our lists. We have a small window of opportunity to reach potential candidates and encourage them to submit applications as follows:

Environmental Engineer- civil degree, G15 traineeship. Application deadline is 4/20/16. Apply at <https://www.cs.ny.gov/examannouncements/announcements/oc-cr/decentralized/20-147.cfm>

Environmental Engineer (civil) G20. Continuous Recruitment. Apply at <https://www.cs.ny.gov/examannouncements/announcements/oc/80-197.cfm>

Environmental Engineer (civil) G24. Continuous Recruitment. Apply at <https://www.cs.ny.gov/examannouncements/announcements/prom-cr/30-180.cfm>

If you know anyone who may be interested in Engineering positions in Operations, upcoming graduates thru experienced PE's, please relay this information to them.

We have immediate approval to fill a G15/20 position for design of BLS facilities. We also hope to get approval to fill two EEII(civil) positions this year for design of dams and one for fish hatchery design.

Thomas Miller, PE
Chief, Bureau of Design & Construction
Division of Operations
NYS Department of Environmental Conservation
625 Broadway, Albany NY 12233-5252
Phone: [518-402-9084](tel:518-402-9084)
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