

Queens Chapter

New York State Society of Professional Engineers

The Drawingboard

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President's Message

*By George Tavoulares, P.E.
President gltpe@msn.com*

On behalf of the Board of Directors, I want to wish you and your family a Happy, Healthy and Prosperous New Year. This past year has been a difficult one for many of our members with the sluggish economy and Sandy. I have seen peoples' homes and lives destroyed by mother nature. The year is behind us and as a professional organization we must look forward to the future and grow. We need to grow in membership and we need to make more of an impact on our profession and to society. Our state society has a new Executive Director **Anthony Fasano, P.E.** and we wish him all the best. Anthony will speak to our chapter in February.

MATHCOUNTS is a national math competition that promotes middle school mathematics achievement through grassroots involvement in every U.S. state and territory. Winners at the local level proceed to state competitions, where the top 4 Mathletes® and top coach earn the right to represent their state or territory at the level. At all levels, MATHCOUNTS challenges students' math skills, develops their self-confidence, and rewards them for their achievements. Scholarships are given out at the national competition. **WE NEED VOLUNTEERS TO ASSIST IN RUNNING THE COMPETITION ON FEBRUARY 2, 2013.** Please call **Robert LoPinto, P.E.** at 516-816-3800 and volunteer. The final round, similar to a spelling bee but with math questions must be seen. The Borough President of Queens has been invited to give out the trophies.

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You can read more by going to <https://mathcounts.org/>

MESC will be celebrating Engineers Week with an event at NY Polytech.

Our next meeting is scheduled for January 24, 2013 at 6:30 pm in Ft. Totten. I look forward to seeing you.

Next General Membership Meeting

The next general membership meeting will be held on Thursday January 24, 2012 6:15pm. at 422 Weaver Ave in Ft. Totten, NY

Admission \$20 for non-members \$20 members

Sponsor

filterra Bioretention Systems (<http://www.filterra.com/>) will present its solutions for high volume/flow storm water treatment and high pollutant removal systems.

Mathcounts

The QUEENS MATHCOUNTS Competition will be held on Saturday, February 2, 2013 at 8:30 A.M. at JHS 189, Flushing, Queens. VOLUNTEERS are needed for the competition. The Competition will feature around 10 teams of 6th thru 8th graders competing in written and oral tests.

REGISTRATION:

Registration will begin no sooner than 8:15 AM. All schools are scheduled to arrive before 8:45 AM to register their students.

JHS 189 LOCATION:

JHS 189 is located in Flushing. The Address is 144-80 Barclay Avenue. The Main Entrance is located on 147th Street, between Sanford Avenue and Barclay Avenue. 147th Street is One Way North, from Sanford to Barclay Avenues. There is also a school yard that is used for parking. It is located on Sanford Avenue, West of 147th Street. There is a Curb at the entry gates, so you can drive in. There is an entrance from the parking lot to the school.

JHS 189 is in Flushing, North of the Long Island Expressway, South of Northern Blvd, East of Main Street and West of 150th Street. .

SCHEDULE:

It is estimated that the competition and awards ceremony will end by 1:00 PM. There will be a short break after the Team competition-before the Countdown round competition. We will provide some refreshments. You can bring refreshments of your own - BUT limit the amount to a small size, as we have limited space.

If there are any questions, call Bob LoPinto, PE during the day at 516-791-2300. He can also be reached on his Cell Phone at 516-816-3800.

Engineer's Week

Save the date, Engineers Week is being celebrated on Feb. 13, 2013. The program is currently being finalized. The Chapter is currently planning a major activity in New York City and we will notify our members by e-mail when the program is finalized.

Proposed rules governing the City of New York

New rules including proposed building facades can be viewed at.:

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

Website of the Month

National Building Museum: <http://http://www.nbm.org/>

ENGINEERS WEEK CELEBRATION

Sponsored by the

METROPOLITAN ENGINEERING SOCIETIES COUNCIL (MESC)

and

HELLENIC AMERICAN TECHNICAL CHAMBER (HATC)

RESERVATIONS REQUIRED FOR DINNER THE PUBLIC MAY ATTEND THE LECTURE ONLY AT NO CHARGE.

Date: Wed, Feb. 13, 2013 (Snow Date: Wed., Feb. 27, 2013 please call 212-879-4427)

Where: Polytechnic Institute of NYU Brooklyn, NY 11201
For Directions: www.poly.edu/directions/ (Click on Brooklyn Campus)

Time: 5:30 pm Registration, Room Regna Lounge, Rogers Hall
6:00 pm Benediction- Father John Romas, Pastor of St. Nicholas WTC Church
Light Buffet, Regna Lounge, Rogers Hall

Program: 7:00 pm, Regna Lounge, Rogers Hall
7:00 - 7:25 Welcome & Introductions
Wasył Kinach, P.E., MESC Chair
Jerry M. Hultin, President, Polytechnic Institute of NYU
7:25 - 7:45 Presentation of Mayor's Proclamation
7:45 - 7:50 Introduction of Keynote Speaker, Gregory E. Homatas, P.E.
7:50 - 8: 45 Keynote Address- Speaker: Nicholas P. Kotsoumitis, AIA; Principal ,
KAPC Architects

Topic: Replacement of St. Nicholas Church At World Trade Center

Cost: \$50.00 – mailed reservations and check required by February 1, 2013
No "At Door" payment
1 PDH (expected) for this meeting

Please mail your check made payable to MESC and mail it with the tear-off below to:
MESC, PO Box 1981, Church Street Station, New York, NY 10008-1981

February 13, 2013 ENGINEERS WEEK CELEBRATION

Fee Enclosed: _____ Phone #: _____

First Name: _____ Last Name: _____

Company: _____ Society: _____

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FOR ADDITIONAL INFORMATION, CONTACT WASYL KINACH, e-mail: info@mescnyc.org,

Tel: (212) 669-2203



Filterra® Stormwater Bioretention Filtration System

The Urban Solution for LID

Standard Filterra® System

The Standard Filterra® System is similar in concept to bioretention in its function and applications but has been optimized for high volume/flow treatment and high pollutant removal. Its small footprint allows it to be used on highly developed sites such as landscaped areas, parking lots and streetscapes. Filterra® is exceedingly adaptable and can be used alone or in combination with other BMPs.

Stormwater runoff enters the Standard Filterra System through a curb-inlet opening and flows through a specially designed filter media mixture contained in a landscaped concrete container. The filter media captures and immobilizes pollutants; those pollutants are then decomposed, volatilized and incorporated into the biomass of the Filterra® system's micro/macro fauna and flora. Stormwater runoff flows through the media and into an underdrain system at the bottom of the container, where the treated water is discharged.

Features and Benefits

Best Value. Filterra offers the most cost effective stormwater treatment system featuring low cost, easy installation and simple maintenance.

Regulatory Compliance. Third party field testing confirmed that Filterra meets state regulatory requirements for pollutant removal under TAPE and TARP testing.

Aesthetics. Landscaping enhances the appearance of your site making it more attractive while removing pollutants.

Maintenance. Maintenance is simple and safe (no confined space access), and the first year is FREE with the purchase of every unit.

Versatile. Filterra is ideal for both new construction and urban retrofits, as well as:

- Streetscapes
- Parking lots
- Highways
- Urban settings
- Daylighted Roof drains
- Industrial settings

Design Support. Our engineers can assist you with all aspects of each Filterra application, including flora selection and sizing.¹

A Highly Effective System

Filterra is well-suited for the ultra-urban environment with proven high removal efficiency for many toxic substances such as petroleum and heavy metals.



Filterra® monitoring unit at an industrial port.

The Filterra System meets or exceeds federal and state regulatory guidelines for pollutant removal efficiencies of Total Suspended Solids (TSS), nutrients and metals.

Expected Pollutant Removal

(Ranges Varying with Particle Size, Pollutant Loading and Site Conditions)

TSS Removal	85%
Phosphorus Removal	60% - 70%
Nitrogen Removal	43%
Total Copper Removal	> 58%
Dissolved Copper Removal	46%
Total Zinc Removal	> 66%
Dissolved Zinc Removal	58%
Oil & Grease	> 93%

Information on the pollutant removal efficiency of the filter soil/plant media is based on third party lab and field studies.

Filterra media has been TAPE and TARP tested and approved.

¹For more details, see the Sizing Table for your project's region.



Maintenance is simple and safe.



Filterra® Stormwater Bioretention Filtration System

The Urban Solution for LID

Design Assistance

Visit www.filterra.com to receive your Filterra DAKit (Design Assistance Kit). This includes placement “Do’s and Don’ts”, example scenarios, detail drawings, specifications, project information form, and other essential design information.

Sizing Procedure

- 1) Use your project’s Regional Filterra DAKit as a reference.
- 2) Determine Filterra locations (with effective bypass) in accordance with placement guidelines.
- 3) Determine contributing drainage areas to each Filterra.
- 4) Choose the corresponding size Filterra from the project’s Regional Sizing Table.
- 5) For best results, get us involved early in the design process. Please send your completed project information form along with plans to Filterra for placement and application review.

Proper Placement

- 1) Do not place in a sump condition. The Standard Filterra cannot be used as a standalone inlet - it will need effective bypass during higher intensity rainfall events.
- 2) Do not direct surface flow to Filterra in a “head on” configuration. The ideal way to load Filterra to prevent system damage is a cross linear flow (left-to-right or right-to-left) in the gutter in front of the Filterra. This prevents the re-suspension and possible exit of the trapped pollutants, mulch, and engineered media from within Filterra during the high flow bypass stage.
- 3) Refer to example scenarios in the Filterra DAKit

Standard Filterra Placement Example



Standard Filterra System showing curb-inlet opening.

Placement Review

Because we want your project with Filterra to be a great success, we respectfully require that each Filterra project be reviewed by our placement/design staff. This review is mandatory, as proper placement ensures you of the most efficient and cost effective solution, as well as optimum performance and minimal maintenance.

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Filterra® is protected by U.S. Patents #6,277,274, #6,569,321 & #7,625,485. Other patents pending.

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