

Queens Chapter

New York State Society of Professional Engineers

The Drawingboard

September 2012

Volume 12, Number 09

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President's Message

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

I hope everyone had a safe and healthy summer. We now need to roll up our sleeves and go back to work. Over 138,000 vehicles cross the Tappan Zee bridge every day, far more than it was designed to handle. The Tappan Zee Bridge will be torn down and a new bridge be built. On Sept. 19, 2012 Governor Andrew Cuomo appointed members of the selection committee to review the designs of the three finalists. The selection process will evaluate the technical quality of the proposals in conjunction with pricing information, to identify the proposal that offers the best value to New York State. The "best value" approach, made possible by the design-build legislation enacted by Governor Cuomo last year, looks at factors such as design and long-term quality of the project to ensure that the proposal chosen meets the needs of the region, the transportation system and toll payers. It is unfortunate that there aren't many Professional engineers on the committee. What do lawyers and accountants know about bridges? You can read more about the selection process at

<http://www.governor.ny.gov/press/09192012Tappan-Zee-Project>

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The NYC Dept. of Buildings is requesting volunteers to serve on the 2013 Master Plumbers and Master Fire Suppression Piping Contractors License Board, Electrical License Board (reviews applications for electrical licensure and licensee compliance with Electrical Code administrative provisions), Electrical Advisory Board (reviews applications for installations over 1000kva & electrical equipment) and Electrical Code Revision & Interpretation Committee. If you are interested in serving, please let me know. We need you to step up to the plate and serve. You can read more about these positions in this newsletter.

The NYC Dept of Buildings issued a proposed rule affecting expeditors. Although this is a step in the right direction, the proposed rule does not go far. It still allows unlicensed individuals to meet with DOB examiners to discuss technical issues.

I look forward to seeing you at our meeting on Thursday September 27, 2012 at 6:30pm.

Next General Membership Meeting

The next general membership meeting will be held on Thursday September 27, 2012 at 6:15pm. at 422 Weaver Ave in Ft.Totten, NY

Sponsor

Masonry Restoration

Presented by Keith Lashway, PE

This program provides an overview of the importance of the restoration industry today and focuses on the following learning objectives: Basic types of building failure, the relationship of time versus deterioration, the appropriate levels of intervention, classifying required repairs, basic requirements for condition assessment studies, minimum inspection requirements, and the "green" aspects of masonry building restoration.

Course outline includes:

1. Identify the basic types of building failures.
2. Understand the relationship of Time vs. Deterioration.
3. Determine appropriate levels of intervention.
4. Learn minimum masonry inspection requirements.

Keith F. Lashway, P.E. is the Director of Industry Development and Technical Services for the International Masonry Institute. Keith joined IMI in 2007 and has over 30 years experience in the private sector working in consulting as a design engineer and project manager on numerous steel, concrete and masonry buildings. In addition, he has over 10 years experience in the public sector working as the Director of Environmental Services, Manufacturing Assistance, and Property Redevelopment for New York State.

Keith is involved in many organizations including ACI, NCMA, ASTM, ASCE, NYSSPE, SEI and SAME. He also has over 16 years experience teaching civil engineering as an adjunct professor @ Hudson Valley Community College in Troy, NY and Union College in Schenectady, NY.

He is a graduate of Hudson Valley Community College in Architecture and University of Buffalo in Civil Engineering and is a licensed professional engineer in New York State. Keith is also President-elect for NYSSPE.

Admission is \$10 for NSPE members and \$20 for non-members.

Students are free. 1 PDH Credit

NEW EXPEDITORS RULE

PROPOSED BY DOB

by Robert LoPinto, PE

On Oct 4th at 10AM, at the DOB Headquarters in Manhattan, there will be a Public Hearing regarding additions to the Rules of the City of New York, Section 104-24, Filing Representatives. The proposed rule will establish two types of filing representatives (expeditors) that can do business with DOB. Class 1 reps can file documents at DOB. Class 2 reps, referred to as code and zoning reps, can also meet with Plan Examiners and DOB technical personnel.

Both classes of reps will be required to meet educational and experience requirements. These proposed rules are requiring the reps to maintain their education, including ethics training to renew their registrations.

The purpose of the rule is to assist DOB and the industry to identify qualified individuals to support filings, and to ensure that only qualified reps appear before plan examiners to address objections.

There will be a 2 month window of opportunity, from April 1 2013 to June 1, 2013, for existing expeditors to file for a class 2 rep, with some reduced education requirements but additional grandfathered experience requirements. After July 1, 2013, all class 2 reps will need a 4 year college degree.

The full rule can be seen at:

<http://www.nyc.gov/html/nycrules/downloads/rules/Pdobcc09-04-12a.pdf>

Design Build and More in NY

*By Mark C. Kriss, Esq.
(NYSSPE Legislative and Legal Counsel)*

New York State Society of Professional Engineers NYSSPE has recently been requested to comment on design build and other alternative project delivery methodologies, such as construction manager at risk, for public projects in New York. Legislation is pending before the NYS Legislature which would modernize New York's law for most state and local governmental projects (see S3035-A / A4735-A 2012). The bill would amend New York law to allow projects to precede using alternatives to the design-bid-build means of project delivery. Enactment of this law will make New York's law more consistent with the vast majority of other states. In addition, the Society has been requested to comment on design build procurement for the Tappan Zee Bridge Project.

I. S3035-A Design Build and Construction Manager at Risk S3035-A / A4735-A in many respect is a sound bill which with a number of amendments could be supported by NYSSPE.

Good features of the bill include Quality Assurance Safeguards:

- Broad use of Quality Based Selection (QBS) for the selection of PEs and RAs for both design build and construction manager at risk
- The use of a PE or RA as the owner's project representative independent from the principal design firm for design build projects
- Mandatory inspections and testing by properly credential inspectors with direct reports to the project owner or owner's design representative

Despite the foregoing a number of amendments are needed to correct deficiencies in the bill. Proposed amendments to the bill include:

- Remove provisions in the bill which authorize some governmental entities to use alternative project delivery methodologies without sufficient detail and Quality Assurance safeguards
- Amend bill to insure that the scope of practice and responsibility respecting the design of buildings is consistent with current law for both professional engineers and architects
- Add a provision prohibiting improper blanket indemnification of a general contractor by a design professional. The intent is to insure that parties are held directly accountable for their respective scope of responsibilities owed to a project owner and the public
- Add a Quality Assurance provision applicable to all design build contracts which affords a primary design firm unrestricted access to a project owner or owner's design representative

Consideration of additional safeguards, including, without limitation, licensure of general contractors requires additional analysis.

II. Tappan Zee Bridge

In December 2011 legislation (S50002 / A40002 - 2011) was enacted which authorized the use of design build by a number of state agencies for the construction and rehabilitation of roads and bridges. The legislation has a three year sunset provision. In accordance with the new law a design build RFP for the Tappan Zee Bridge was advanced earlier this year. NYSSPE is pleased that the RFP has a number of Quality Assurance safeguards contained in S3035-A including, among others, the selection via QBS of a design firm to serve as the owner's representative. A QBS process has also been included for the selection of the primary design firm. NYSSPE would support a long term extension of the current law provided that all of the Quality Assurance safeguards discussed above are included in the legislation.

(Copies of S3035-A can be obtained from the NYS Senate website.) -

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>

Proposed NYC rules can be read at the above web site. Please email me your comments regarding any of the rules.

Engineering on the Web

<http://shinkicker.hubpages.com/hub/A-Brief-History-of-the-Venice-Subway>

MATHCOUNTS 2013

The 2013 MATHCOUNTS Season has started. The National MATHCOUNTS Foundation has begun sending out invitations to Middle Schools in Queens to join the program this year. The Club Program will provide information to the schools to help them train their students in Math. The Competition Program also includes the School Competition material and the ability to participate in the Chapter, State and National Competitions.

The Queens Chapter is beginning its activities also. We will monitor the schools that join the programs, invite Club members to upgrade to Competition members, and start arranging for the Queens Chapter MATHCOUNTS Competition to be held in February 2013.

Volunteers are needed. If you want to help, please contact Bob LoPinto, PE at 516-791-2300.

MAKER FAIR

QUEENS HALL OF SCIENCE - SEPT 29 & 30

A two day family friendly festival of invention, creativity and resourcefulness, and a celebration of the "Maker" movement! Over 500 exhibits in the world's most diverse showcase of creativity and innovation in technology, craft, science, fashion, art, food and more. Outrageous attractions, how to workshops and inspiring presentations!

For more information, go to <http://makerfaire.com/newyork/2012/index.html>

ENGINEERS IN THE NEWS

The Elite Radio Network has interviewed one of our members, Brian Flynn, PE to share his insights into the engineering profession. His interview is now available on the Elite Radio Network website: <http://eliteradionetwork.com/brianflynn>.

Help Wanted

Brian Flynn PE is looking for engineers interested in field engineering and construction engineering. Full Time or Part Time. Contact Brian Flynn, PE at [718-894-7822](tel:718-894-7822), FAX [718-894-7833](tel:718-894-7833), eMAIL BEFlynnPE@mac.com

LLC seeks Engineering Manager to become part of Management team.

This is an excellent opportunity to be part of a dynamic NYC property management team and to become educated in the commercial and residential real estate industry.

The salary is \$45-50K (depending on qualifications) plus benefits.

BS in mechanical, facilities or electrical engineering is required.

Office is in the Union Sq area of NYC.

July 31, 2012

Crain's New York Business
crainsnewyork.com

Columbia joins the tech-campus party

The university will spend \$80 million, dedicate 44,000 square feet and add 75 faculty members over 15 years. The city will kick in \$15 million.



Photo by Bloomberg.
Columbia University will make more room for applied sciences.

By Matthew Flamm

Cornell and New York University won't be the only schools working with cool startups. Columbia University is joining the city's increasingly lively tech party, too.

With financial support from the city, New York's oldest institution of higher learning is creating a new Institute for Data Sciences and Engineering, becoming the third major school to take part in the Bloomberg administration's Applied Sciences NYC Initiative. The agreement between the city and the university was announced Monday by Mayor Michael Bloomberg and Columbia President Lee Bollinger.

It will lead to 44,000 square feet of dedicated space spread over existing Columbia locations and the addition of 75 faculty members over the next 15 years. The city will contribute \$15 million in the form of debt forgiveness and discounted energy transmission costs. Columbia's own investment in the project will come to at least \$80 million.

Though not as dramatic a deal as CornellNYC Tech, the new institute grew out of the same international competition last year won by Cornell University and the Technion-Israel Institute, which are building a \$2 billion campus on Roosevelt Island. The city's request for proposals for that contest offered land and \$100 million.

While Columbia missed out on the big money, the competition triggered a larger effort than the school might otherwise have made.

Dear Sir/Madam:

The Department is preparing to select members for the 2013 Electrical Boards and Committee. We are requesting applications from the electrical industry, real estate, architectural and engineering community and other industry stakeholders.

We are seeking members for:

Electrical License Board (reviews applications for electrical licensure and licensee compliance with Electrical Code administrative provisions)

- Licensed Master Electricians actively engaged in the trade
- Electrical Journeyman
- Electrical Inspector employed by an inspection agency
- Electrician employed by a Public Service Corporation (utility)
- Registered Architect or Licensed Engineer with five years' experience
- Real Estate Owner/Manager

Electrical Advisory Board (reviews applications for installations over 1000kva & electrical equipment)

- Electrical Consulting Firm Representatives
- Electrical Manufacturing Representatives
- Electrical Technical Organization Representatives
- Electrical Utility Representatives
- Electrical Contractors (union and non-union)

Electrical Code Revision & Interpretation Committee (assists in the interpretation of Electrical Code technical provisions)

- Electrical Consulting Firm Representatives
- Electrical Manufacturing Representatives
- Electrical Technical Organization Representatives
- Electrical Utility Representatives
- Electrical Contractors (union and non-union)
- Electrical Contractor Association Representative/Electrical Contractor
- Real Estate Owner/Manager

Please identify individuals for nomination to these Boards or Committee. This is an opportunity for you or one of your organizations' members to give back to the profession, and your community with experienced participation. Required time commitments will depend upon the Board/Committee chosen.

Applicants must indicate to which Board/Committee they are applying with the attached form and provide a current resume. If applicable, please provide a nomination letter from an officer of the organization they intend to represent on the Board/Committee. Resumes and Application forms can be submitted to ElectricalBdsandComm@buildings.nyc.gov for review. Please note other NYC Agencies will also be reviewing the application. We would appreciate submissions by October 15, 2012.

Any questions can also be submitted to the above listed email address.

Thank you for your interest.

Electrical Boards and Committees
The New York City Department of Buildings
Dear Sir/Madam:

The Department is preparing to select members for the 2013 Master Plumbers and Master Fire Suppression Piping Contractors License Board. We are requesting applications from the plumbing, and sprinkler /fire suppression industries, real estate, architectural and engineering community.

The Board is comprised of:

Licensed Master Plumbers- Association of Contracting Plumbers of the City of New York, Inc. & Master Plumber's Council of the City of New York, Inc.*

Licensed Master Fire Suppression Piping Contractors (Class A and B) - Fire Sprinkler Contractors Association, Inc.*
& National Fire Sprinkler Association *

Registered Journeyman Plumbers –United Association of Plumbers, Local 1*

Registered Journeyman Fire Suppression Piping Installers –United Association of Steamfitters' Local Union 638*

Engineer with five years' experience of design plumbing systems

Registered Architects

Engineer - with full membership in Society of Fire Protection Engineers

Real Estate Owner/Manager – or their representative

*Multiple nominations recommended

Please identify representatives to be nominated for membership to this Board. This is an opportunity for your members to give back to the profession, and your community with experienced participation. The time commitment is, at most, twice a month for approximately three hours.

Current resumes and the attached form can be submitted to PlumbingBdandComm@buildings.nyc.gov for review. Please note other NYC Agencies will also be reviewing the application. We would appreciate submissions by October 15, 2012. Any questions can also be submitted to the above listed email address.

Thank you for your interest.

Plumbing Board and Committees
The New York City Department of Buildings

July 31, 2012

Bond Buyer
bondbuyer.com

N.Y. Thruway Gets Three Bids for Tappan Zee

By Tonya Chin

The New York State Thruway Authority received three proposals from teams that are vying for the opportunity to design and build a replacement for the existing Tappan Zee Bridge.

The proposals were received on Friday and the selection process will begin in four weeks. Brian Conybeare, the new special advisor to New York Gov. Andrew Cuomo on the \$5 billion project, said the proposals comprise over 70 boxes of documents and an estimated 750,000 pages.

The three teams are: the Kiewit-Skanska-Weeks Joint Venture, consisting of Kiewit Infrastructure Co., Skanska USA Civil Northeast Inc. and Weeks Marine Inc.; the Tappan Zee Bridge Partners, a Bechtel/Tutor Perini Joint Venture, which includes Bechtel Infrastructure Corp. and Tutor Perini Corp.; and Tappan Zee Constructors, made up of Fluor Enterprises Inc., American Bridge Co., Granite Construction Northeast Inc. and Traylor Bros. Inc.

The proposals will be reviewed for completeness and compliance before being accepted for selection review, a process that is expected to take four weeks.

Conybeare said additional information regarding the selection process will be available sometime this week and will be as "open and transparent as federal procurement law will allow."

Under the design-build process, the state develops basic requirements for the new bridge, and firms compete for a contract to design and build the bridge, which would replace the existing bridge that crosses the Hudson River north of New York City.

Officials have said this process will eliminate added cost and shift financial risks to the private sector.

July 31, 2012

"Had we perhaps been inspired to compete for a \$15 million prize, we might have been somewhat less ambitious in our initial approach," said Columbia University Provost John Coatsworth, in an interview. "But by the time the smaller prize came in prospect, we had already done an enormous amount of work bringing together people across the campus and putting together the thinking that went into creating this Institute for Data Sciences and Engineering. And even at \$15 million, we can see how important it is to the future of the university."

The new institute will develop five "centers" of focus: new media, smart cities, health analytics, cybersecurity and financial analytics. In its first phase, the school will use space in its new Northwest Corner Building and its current engineering building, both on its Morningside Heights campus. For the second phase, the institute will use 10,000 square feet, currently vacant, for a bio-research incubator in the Audubon building in Washington Heights.

The city predicts the new institute will have \$4 billion in economic impact over the next three decades and generate more than 4,500 jobs.

Apart from the Columbia and Cornell projects for the Applied Sciences NYC initiative, NYU is leading a consortium of universities in building a Center for Urban Science and Progress in downtown Brooklyn.

July 9, 2012

Crain's
crainsnewyork.com

CornellNYC Tech seeks developers for 3 projects

The school is looking to see what developers want to partner on the financing, construction and operation of three buildings.



Buck Ennis

CornellNYC Tech is quickly forging ahead with its effort to build an applied-sciences campus on Roosevelt Island.

By Theresa Agovino

Within the last two weeks, CornellNYC Tech, a collaboration between Cornell University and Technion-Israel Institute of Technology, sent out a request for expressions of interest to numerous developers for three different building projects: a conference center/hotel; a residence for faculty, staff and students; and a commercial property that would be leased to technology industry-related companies.

Cornell is looking to gauge interest from developers who want to partner on the financing, construction and operation of the buildings. Responses to the request are due in August and the formal request for proposals is slated to go out later this year. The target date for completing the buildings is 2017.

"Cornell is committed to pursuing innovative partnerships to develop the non-academic components of the tech campus, buildings that are critical to creating a vibrant, active campus and fulfilling our goal of connecting academic teaching and research with industry innovation," said Cathy Dove, vice president of CornellNYC Tech, in a statement. "We've already heard terrific feedback and interest, and we look forward to receiving responses from some of New York's many experienced developers."

July 9, 2012

Rudin Management Co, The Related Cos, Gotham Organization, and Douglaston Development were among those developers that sources said received the request for expressions of interest. It was unclear which project they were contacted about. It also couldn't be learned how many developers received the request.

Related has a long history with Roosevelt Island. It owns six residential buildings there already and is planning to construct three more. A company spokeswoman declined to comment.

In a statement, a Rudin spokesman said, "We are honored that Cornell/Technion would reach out to us to gauge our interest in being a part of such an historic project. We are reviewing the RFEI and anticipate responding to Cornell/Technion in short order."

Representatives from the other firms didn't return calls seeking comment.

Two months ago, Cornell selected architect Thom Mayne of the firm Morphosis to design its first academic building. Cornell is expected to break ground on the 150,000-square-foot building in 2014. The building is expected to cost \$150 million and be completed by 2017.

When the campus is completed, the buildings will total more than 2 million square feet. The project is expected to be built out over two decades and will cost upwards of \$2 billion.

But until Cornell's campus can accommodate faculty and students, it will be located in space donated by Google in its building at 111 Eighth Avenue.



BUILDING NEW YORK E-BULLETIN

DIVISION OF CODE ENFORCEMENT AND ADMINISTRATION

RONALD PIESTER A.I.A., DIRECTOR

August 29, 2012

New York State

E-Bulletin

Notice of Rule in Development

A rule currently in development would amend Uniform Code provisions relating to the use of certain corrugated stainless steel tubing (CSST) products in gas piping systems.

The Department of State invites public participation in the rule development process.

The Department of State (DOS) is in the process of developing a rule which, if adopted, would amend the Uniform Code to permit the use of certain corrugated stainless steel tubing (CSST) products that are encased in a protective conductive jacket ("conductive jacketed CSST" or "CJ-CSST") in gas piping systems without requiring the CJ-CSST to be bonded.

The rule is being developed because studies submitted to DOS indicate that (1) the conductive jacket used to encase CJ-CSST is designed to absorb and dissipate lightning-induced arcing energy locally at the point of arc attachment; (2) the conductive jacket subsequently lowers the energy level below the threshold where a wall puncture occurs; (3) this protection is provided uniformly along the entire length of the CJ-CSST tubing run; and (4) because the CJ-CSST's electrically resistive jacket provides protection against transient arcing, CJ-CSST can be installed without the direct electrical bonding required when conventional CSST is used.

The full notice and a link to the draft rule is available by [clicking here](#).

DOS invites all interested parties, particularly those representing small businesses, local governments, and public or private interests in rural areas, to participate in the rule development process. Interested parties are invited to submit comments on the draft rule. If you have suggestions on how the draft rule could be improved, suggested alternatives to the draft rule that DOS could consider, additional studies that support or refute the studies discussed above, or any other comments on the draft rule, please contact Raymond Andrews, RA, Assistant Director for Code Development, by mail at New York State Department of State Division of Administration and Enforcement, 99 Washington Ave., Albany, NY 12231-0001; by telephone at [\(518\) 474-4073](tel:5184744073); or by e mail at raymond.andrews@dos.ny.gov

NOTE: The draft rule has not yet been proposed or adopted, and the Uniform Code has not yet been amended to permit the use of CJ-CSST without bonding. Until and unless the Uniform Code is adopted, all CSST products, including all CJ-CSST products, used in gas piping systems must be bonded.



Lecture

Date: September 27, 2012

Time: 6:30PM to 8:00PM general membership meeting
8:00am to 9:00pm lecture

At

422 Weaver Ave. Fort Totten, Bayside, Queens

1 PDH Continuing Education Credits

Admission fee is \$10 for NYSSPE members; \$20 for non-members.

Masonry Restoration

PRESENTED BY:

Keith F. Lashway, P.E. is the Director of Industry Development and Technical Services for the International Masonry Institute. Keith joined IMI in 2007 and has over 30 years experience in the private sector working in consulting as a design engineer and project manager on numerous steel, concrete and masonry buildings. In addition, he has over 10 years experience in the public sector working as the Director of Environmental Services, Manufacturing Assistance, and Property Redevelopment for New York State; President-elect NYSSPE.

THE PROGRAM:

This program provides an overview of the importance of the restoration industry today and focuses on the following learning objectives: Basic types of building failure, the relationship of time versus deterioration, the appropriate levels of intervention, classifying required repairs, basic requirements for condition assessment studies, minimum inspection requirements, and the "green" aspects of masonry building restoration.

1. Identify the basic types of building failures.
2. Understand the relationship of Time vs. Deterioration.
3. Determine appropriate levels of intervention.
4. Learn minimum masonry inspection requirements.

Buffet dinner 6:15 pm-8:00pm included

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<p>Chris Petallides, P.E., N.S.P.E. CONSULTING ENGINEER</p> <p>TEL: 718 961 4342 FAX: 718 321 3929 EMAIL: PetallidesPE@aol.com</p> <p>47-15 Marathon Pkwy. Little Neck Hills, N.Y. 11362</p>	<p>Tel/Fax: (718) 323-0754 Cell: (917) <u>860-6957</u> E-Mail: JAVBINTGRO@AOL.COM</p> <p>130-08 122nd, Street 2nd Fl. South Ozone Park, NY 11420</p> <p>Jose A. Velasquez, P.E. Master of Civil Engineering Master of Economics New York State Licensed Professional Engineer</p> <ul style="list-style-type: none"> • Consultant • Building Inspections • Certificates of Occupancy • Engineering Reports • Permits & Alterations • Structural Design • Legalizations • Removal of Violations
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Z. S. ENGINEERING, P.C.

99 TULIP AVENUE
FLORAL PARK, NY 11001
PHONE: (516) 328-3200
FAX: (516) 328-6195
E-MAIL: staszewski@zsengineering.com

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