

# SUSTAINING NEW YORK

RENOVATION AND REHABILITATION OF EXISTING STRUCTURES



Fifth Ave. and 42nd Street with Public Library, New York City.

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Since the founding of the city over 400 years ago, New York has grown to be a major metropolis encompassing close to 1 million buildings and 2000 bridges. While new structures are being erected every year, a substantial number of the existing buildings are reused.

The 2011-2012 SEAoNY day-long seminar offers an opportunity to learn about key topics related to renovation and rehabilitation. Please join us as experts from both industry and academia share their technical knowledge and latest research.

6.5  
PDHs

02.07.12

7 World Trade Center, NYC

New York Academy of Sciences

Sponsored by:

Structural Engineers Association of New York  
Fibrwrap Construction



## Topics Covered

- Non-Destructive Evaluation & Testing
- Structural Health Monitoring
- Corrosion Evaluation & Treatment
- Researching Existing Buildings in NYC
- Adaptive Reuse Projects
- Common Problems Encountered in NYC Renovations

## Non-Destructive Testing & Evaluation (NDT&E) for the Structural Engineer

Speaker: Barry Drogin (Director of NDT&E, Superstructures Engineers+Architects)

NDT&E can be a valuable tool for determining actual as-built conditions and diagnosing the causes and severity of failures of reinforced concrete and masonry structures. Attendees of this program will learn about the types of tests organized into three investigation categories, the measurements and data that can be collected, equipment that is used for each test, how quantified data is used to rate problem severity and prioritize budgetary allocations, and standard protocols and procedures as defined by various professional organizations, including ASTM, ANSI, SPRI and RILEM.

## A Brief Introduction to Vibration-Based Structural Monitoring through Case Studies

Speaker: Andrew Smyth (Professor, Department of Civil Engineering, Columbia University)

Vibration-based and other structural monitoring tools have become an integral part of management of critical components of our civil infrastructure to assess performance and condition. The presentation will review two recent structural motion monitoring projects of major suspension bridges in NYC. In addition to bridge monitoring case studies, the seminar will discuss basic principles of vibration monitoring inside building systems.

## Corrosion Evaluations & Electrochem. Treatments for Historic Steel Frame Buildings

Speaker: Gina Crevello (Principal, Echem Consultants)

This discussion focuses on the history, development and required procedures for choosing and installing electrochemical treatments on historic steel frame buildings. A detailed explanation of the corrosion process, corrosion evaluations, and the use of Impressed Current Cathodic Protection as a durable, long term corrosion mitigation option will be provided. Case studies on historic steel frame and concrete buildings will be used to illustrate reasons for choosing ICCP.

## Researching Existing Buildings in NYC

Speaker: Timothy Lynch (Executive Director of Forensic Unit, Department of Buildings)

This presentation will present and discuss how the city developed its present stock of 1 million buildings, and how our ever adapting regulatory authorities (not always the Building Department) developed codes and laws to govern them. Also to be discussed will be data mining and research using the Department's web sites.

## New York – New Uses: Guidelines to Adaptive Reuse

Speaker: Kevin Poulin (Associate Principal, Simpson Gumpertz & Heger)

The presentation will provide an overview of the four stages of an adaptive reuse project: document review, field investigation, structural analysis and design, and construction administration. Selected antiquated structural systems will be discussed, including terra cotta tile flat arch floors, draped mesh floors, proprietary reinforced concrete systems, wrought and cast iron construction, and foundations. Lastly, the presentation will review historic versions of the New York City Building Code and will discuss the need for an existing building code in New York City.

## Common Problems Encountered in NYC Renovations and How To Address Them

Speaker: Pat Arnett (Associate, Robert Silman Associates)

When doing structural work on an existing building unique conditions are unavoidable, but in the buildings of New York some challenges present themselves repeatedly. Whether working in loft buildings, factories, brownstones or pre-war apartment blocks, a toolbox of solution techniques developed from experience can save you and your client surprises. This talk describes some of these techniques.

Register online at [www.seaony.org](http://www.seaony.org) or complete the form below

(Detach Here)

## Seminar Registration Form

Name \_\_\_\_\_  
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## Seminar Tuition

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| <input type="checkbox"/> SEAoNY Members Advance: | \$250 |
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Advanced registration closes February 6, 2012 at noon.

Credit Card (circle one) AMEX VISA MasterCard

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Mail registration with credit card information or a check payable to SEAoNY: OR

SEAoNY  
536 LaGuardia Place  
New York, NY 10012  
Attn: Day Long Seminar

Fax registration with credit card information to:

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Attn: Day Long Seminar

For further information, please contact us:  
E-mail: [admin@seaony.org](mailto:admin@seaony.org)

### Early Enrollment:

Registration fee must be paid in advance. Payment should be submitted online at [www.seaony.org](http://www.seaony.org) or in the form of a check payable to <SEAoNY>. Mail registration to SEAoNY, 536 LaGuardia Place, New York, NY 10012 Attn: Day Long Seminar

### On Site Enrollment:

If your schedule does not permit you to register in advance, you may register on site. There will be a \$50 surcharge for registering at the door. Although this does not guarantee that you will receive all course materials that day, they will be mailed to you 2-3 weeks after the seminar.

### Location: New York Academy of Sciences

7 World Trade Center  
250 Greenwich Street, 40th floor  
New York, New NY 10007

### Date and Time:

Tuesday, February 7, 2012, 8:00 am-4:30 pm  
Registration begins at 7:30 am  
Lunch and Refreshments will be provided.

### Confirmation Letter:

Registration received at least two weeks prior to the seminar will be confirmed in writing. You should receive confirmation within 15 business days of your registration; if not, please contact: [admin@seaony.org](mailto:admin@seaony.org)

### Continuing Education:

Six and half (6.5) Professional Development Hours (PDHs) will be credited to you ONLY upon completed attendance.

### Instructor Substitution:

SEAoNY reserves the right to substitute an equally qualified instructor should an unforeseen circumstance occur.

### Cancellation/Refund Policy:

If you need to cancel your registration, please contact us as early as possible. There will be a charge of \$95 for cancellation within 10 business days of the seminar and no refunds for cancellation within 5 business days of the seminar. Your registration may be transferred to another individual anytime, up until the first day of the seminar. If a non-member is replacing a member's registration, the non-member is responsible for the price difference.

Dress: Casual business attire is appropriate.

For further information, please contact us:

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## Membership

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