

New York State Society of Professional Engineers
RPI Technology Park
385 Jordan Rd.
Troy, NY 12180-7620

NYSSPE and AIANYS – Preventing Moisture, Air, and Vapor in the Building Envelope

Preventing Moisture, Air, and Vapor in the Building Envelope

**For Architects, Engineers,
Specifiers, Contractors,
Building Owners and
Managers, and Building Code
Officials**

**Earn 5 AIA Approved HSW
Learning Units for Architects**

**AIA Learning Units Qualify for PDH's for
Professional Engineers in New York State, and
May Qualify for PDH's in Other States
Depending on State Licensing Board
Requirements**



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New York State Society of
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**The New York State Society of
Professional Engineers, Inc.**

and



AIA New York State, Inc.
An Organization of The American Institute of Architects

Presents

Preventing Moisture, Air, and Vapor in the Building Envelope

A Day of Continuing Education

**Causes and Solutions for Water and Vapor Transmission
in Concrete Slabs
Critical Roofing Details to Prevent Moisture Intrusion
Sealants and Adhesives for Prevention of Air and
Water Infiltration
The Role of Air Barriers in Cavity Wall Construction**

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Date and Location

**Tuesday, June 20, 2006
8:00 AM to 2:45 PM**

**Long Island Marriott and Conference Center
101 James Doolittle Blvd.
Uniondale, NY 11553**

Directions: www.longislandmarriott.com

Preventing Moisture, Air, and Vapor in the Building Envelope

June 20, 2006 – Long Island, NY

- 8:00 a.m. Registration**
- 8:30 a.m. Opening Remarks**
- 8:45 a.m. Critical Roofing Details to Prevent Moisture Intrusion by GenFlex Roofing Systems**
- Moisture Intrusion
 - Common problems that can be prevented with proper understanding and design
 - Critical Roof Details
 - Prevent moisture infiltration in both horizontal and vertical applications.
 - Application
 - Critical details for membrane systems and how to inspect for compliance
 - Designing for High Winds
 - How to keep high winds in check and moisture out of your building through proper edge design
 - Model Building Codes
 - Edge Metal requirements to meet Building Codes
 - Products and Performance
 - Designing for high performance roofing systems that incorporate proper membranes, systems and edge design
- 10:00 a.m. Break**
- Meet speakers
- 10:15 a.m. The Role of Air Barriers in Cavity Wall Construction by PROSOCO Incorporated**
- The basics of air barrier design
 - 9 points to remember about air barriers
 - Damage caused by uncontrolled air movement
 - Air movement through wall assemblies
 - Liquid water vs. condensation
 - Mold and deterioration
 - Air barriers and energy efficiency
 - Energy savings
 - LEED certification points
 - Vapor barriers vs. air barriers
 - Diffusion
 - Permeable vs. impermeable
 - Building codes and moisture in walls
 - Managing liquid water
 - Managing water vapor
 - Air barriers in construction
 - Air barrier types
 - Checkpoints for effectiveness
 - Fluid-applied vs. fabric wraps
 - Water-based vs. asphaltic
 - Cost comparisons

11:30 a.m.

Lunch

12:15 a.m.

Sealants & Adhesives for Prevention of Air & Water Infiltration by May National

- Sealant Failures and Resulting Problems
 - Water intrusion, mold, energy inefficiency
- Sealant Failures Causes
 - Improper sealant selection
 - Improper installation
 - Types of failure
 - Investigation of remedial case studies
- Specifying and Installing Sealants Properly Based on Project Type
 - Joint movement expectations
 - Urethane or silicone
 - Structural, glazing, weatherseals
 - Test Methods for evaluating and specifying sealants
 - Sealant installation procedure
- Products and details used with Sealants for Preventing Air and Water Infiltration
 - Vapor and air barriers, flashing, drainage, rain screens and pressure equalization

1:30 p.m.

Causes and Solutions for Water Vapor Transmission in Concrete Slabs by Dayton Superior Corporation

- Description of Problem
 - Alkalinity, re-emulsification of adhesives, mold and mildew, corrosion issues
- Understanding Causes
 - Understanding issues around closed and open slabs, where moisture comes from, mix design in concrete slabs, absorptive aggregate in light-weight concrete
- Effect on:
 - Adhesion of low perm floor covering
 - Reinforcing steel and post tension cables
 - Warping on wood floors
 - Fluid applied coatings
- Evaluation
 - Understanding existing conditions, site survey, various tests
- Solutions
 - Discussion for on grade slab vapor barriers
 - What location, pro and con
 - Review of solutions for elevated pan slabs
 - Understanding solutions with breathable finishes

2:45 p.m.

Close

Registration

(Continental Breakfast and Lunch Included)

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 Long Island Marriott and Conference Center
 101 James Doolittle Blvd.
 Uniondale, NY 11553

Boxed lunch:

Ham Turkey Roasted Veg.

By: June 9, 2006 \$170.00 \$ _____

After: June 9, 2006 \$190.00 \$ _____

Name(s): _____

Company: _____

Address: _____

Phone: _____ **Fax:** _____

E-mail: _____
(Please Print)

Profession: _____

Please Send Check Payable To:

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