

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**



Sponsored by:
New York State Society of
Professional Engineers, Inc.
518/283-7490
and
AIA New York State, Inc



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
The Role of Air and Moisture-Resistive Barriers in the
Building Envelope
Sealants and Adhesives for Prevention of Air and
Water Infiltration
Flashing Details for Masonry Cavity Wall Construction**

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Dates and Locations

Wednesday, March 21, 2007
Crown Plaza White Plains
66 Hale Avenue
White Plains, NY
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Thursday, March 22, 2007
American Management Association
1601 Broadway
(Entrance on 48th Street)
New York, NY

Preventing Moisture, Air, and Vapor in the Building Envelope

White Plains - March 21, 2007 ♦ New York City - March 22, 2007
 Speaker Order Will Change Each Workshop Day

8:00 a.m.	Registration
8:30 a.m.	Opening Remarks
8:45 a.m.	The Role of Air and Moisture-Resistive Barriers in the Building Envelope 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
10:00 a.m.	Break Meet speakers
10:15 a.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 Review for elevated pan slabs Breathable finishes

11:30 a.m.

Lunch

12:15 p.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.

Flashing Details for Masonry Cavity Wall Construction by DUR-O-WAL
 Factors Affecting Wall Performance
 Common problems due to lack of flashing details and/or improper installation
 Choosing Proper Flashing Materials
 Types of materials and the advantages and disadvantages of each
 Required Flashing Locations
 Proper applications
 Flashing Installation
 Splices, laps and end dams
 Termination bars
 Dip edges
 Mortar Deflection and Weep Systems
 Prevention of cavity mortar dams
 The Details Are in the Mock-up
 Averting problems

2:45 p.m.

Close

Registration

(Continental Breakfast and Lunch Included)

Please Check Workshop You Will Be Attending

White Plains Workshop – March 21, 2007

Boxed lunch: Ham Turkey Veg.

New York City Workshop – March 22, 2007

Buffet Lunch Included

By: March 2, 2007 \$160.00 \$ _____
 After: March 2, 2007 \$170.00 \$ _____

Name(s): _____

Company: _____

Address: _____

Phone: _____ **Fax:** _____

E-mail: _____
(Please Print)

Profession: _____

Please Send Check Payable To:

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

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Or: Master Card/Visa # _____

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Cancellation Policy: 100% refund for cancellation made 14 days or more before event. 50% refund for cancellation made less than 14 days before event. No refund for cancellation made 7 days or less before the event. NO SHOWS WILL BE BILLED.