

# Improving Energy Performance in the Building Envelope

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

**Earn 5 AIA Sustainable Design 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.**

**AIA Westchester/Mid-Hudson**



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**Presents**

## Improving Energy Performance in the Building Envelope

**A Day of Continuing Education**

- Delivering Energy Efficient Air and Vapor Barrier Systems**
- Achieving Energy Efficient Roofing with Building Integrated Photovoltaics, Green Roofs, and Energy Star Design**
- Insulated Cladding Solutions for High Performance Buildings**
- Elements of Commissioning and Testing for High Performance Building Enclosures**

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**Thursday, April 22, 2010**

**7:30 AM to 2:00 PM**

**Crowne Plaza White Plains**

**66 Hale Avenue**

**White Plains, NY**

**[www.crowneplaza.com/whiteplainsny](http://www.crowneplaza.com/whiteplainsny)**

# Improving Energy Performance in the Building Envelope

April 22, 2010 – White Plains

- 7:30 a.m. Registration**
- 8:00 a.m. Opening Remarks**
- 8:15 a.m. Delivering Energy Efficient Air and Vapor Barrier Systems by Tremco Global Sealants Group**  
 Economic and Environmental Benefits of Air Barrier Systems  
 Impact of Energy Efficiency  
 Functions of an Air Barrier System  
 Control Functions of a Wall  
 Why Managing Air Flow is Critical to Sustainable Design  
 System Components  
 Permeable and Impermeable Systems  
 Contrast Sheet and Fluid Applied Systems  
 Common Design and Construction Issues  
 Specifications  
 Design  
 Sequence of Installation  
 Verification  
 Integrating Windows and Curtain-Walls into an Air Barrier System
- 9:30 a.m. Achieving Energy Efficient Roofing with Building Integrated Photovoltaics, Green Roofs, and Energy Star Design by Tremco Roofing Division**  
 Building Integrated Photovoltaics (Solar)  
 Green (Vegetative) Roofs  
 Energy Star/Cool Roofs  
 Environmental Concerns  
 Urban Heat Island & Pollution  
 Energy infrastructure  
 Carbon Impacts  
 Interior comfort  
 Sustainability Impacts  
 Economic Benefits  
 Energy Reduction  
 Storm Water Issues  
 Renewable Energy/RECS  
 Cap and Trade  
 Waste Stream/Roof Life Cycle  
 Impacting building value  
 Major components and functions  
 Energy & Sustainable Focused Roofing Solutions  
 Design Considerations  
 Cost(s), Maintenance, Life Cycle,  
 Legislation Impacts
- 10:45 a.m. Break**  
 Meet speakers

11:00 a.m.

## Insulated Cladding Solutions for High Performance Buildings by Dryvit Systems, Inc.

- High Performance Building Envelopes  
 What does it mean?
- The Energy Challenge  
 Governmental Policy  
 Building Influences
- Building Envelope Performance Solutions  
 Managing Air Leakage  
 Air / Weather / Vapor Barriers  
 Testing Compliance  
 Improving Insulation Value  
 Addressing Thermal Bridging  
 Placement / Thickness  
 Energy Code and Climate
- Moisture Protection  
 Insulated Claddings  
 Systems and Finishes
- Retrofit / Restoration Construction Options  
 EIFS as a Retrofit Cladding  
 Existing EIFS Restoration
- New Wall Assembly Research / Data  
 ORNL Net Facility Study
- Leadership in Energy and Environmental Design  
 Envelope Performance and LEED  
 Building Cost Factors  
 Environmental Impact  
 Life Cycle Analysis

12:15 p.m.

## Lunch

12:45 p.m.

## Elements of Commissioning and Testing for High Performance Building Enclosures by CanAm Building Envelope Specialists

- Commissioning  
 Architects  
 Contractors  
 Commissioning Agent
- Roof / Wall Intersections  
 Empirical Observations  
 Stack Effect  
 Mechanical Venting  
 Wind Effect
- Inspections  
 Roof Inspector  
 Air Barrier Inspector  
 Window Inspector  
 Wall & Ceiling Inspector  
 Sealant/Waterproofing Inspector
- Testing  
 Blower Door Testing  
 Thermography  
 Full Building Testing

2:00 p.m.

## Close

# Registration

(Continental Breakfast and Lunch Included)

White Plains Workshop – April 22, 2010

Boxed lunch:

Ham  Turkey  Veg

**Seating Is Limited - Please Register Early**

### NYSSPE and AIA Members:

By: April 12, 2010      \$140.00      \$ \_\_\_\_\_

### Non-Members:

By: April 12, 2010      \$160.00      \$ \_\_\_\_\_

Name(s): \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

(Please Print) – Confirmation Will Be Sent

Profession: \_\_\_\_\_

Register Online: [www.nysspe.org/calendar.php](http://www.nysspe.org/calendar.php)

### Or: Please Mail Check Payable To:

New York State Society of Professional Engineers  
 6 Airline Dr., Albany, NY 12205

Phone: 518/283-7490      Fax: 518/283-7495

E-mail: jamiller@nysspe.org – Jennifer Miller

Or: Master Card/Visa/Amex/Discover#

Address: (if different from above) \_\_\_\_\_

Expiration Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**Cancellation Policy:** 100% refund for cancellation made by April 5th. 50% refund for cancellation made by April 12th. No refund for cancellation after that. NO SHOWS WILL STILL HAVE TO PAY.