

AIA Chicago
35 East Wacker Drive
Suite 250
Chicago, IL 60601-2116

Improving Energy Performance in the Building Envelope

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 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
AIA Chicago
312/670-7770**



AIA Chicago

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**

**Thursday, March 18, 2010
8:00 a.m. to 2:45 p.m.**

**Merchandise Mart Conference Center
350 West Mart Center Dr. 2nd floor
Chicago, IL**

**NOTE: AIA Northeast Illinois will be
sponsoring the identical workshop on
Wednesday, March 17th, in Naperville. You
may attend either location at the same rate. For
registration details for the AIA Northeast
Illinois workshop, go to www.aianeil.org**

Improving Energy Performance in the Building Envelope

March 18, 2010 - Chicago

- 8:00 a.m.** **Registration**
- 8:30 a.m.** **Opening Remarks**
- 8:45 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
- 10:00 a.m.** **Break**
 - Meet speakers
- 10:15 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

11:30 a.m.

Lunch

12:00 p.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

1:15 p.m.

Break

- Meet speakers

1:30 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

2:45 p.m.

Close

Registration

(Continental Breakfast and Lunch Included)
March 18, 2010

AIA Members :

By: March 4, 2010 \$65.00 \$ _____
After: March 4, 2010 \$85.00 \$ _____

Non Members:

By: March 4, 2010 \$75.00 \$ _____
After: March 4, 2010 \$95.00 \$ _____

Name: _____

Company: _____

Address: _____

Phone: _____ **Fax:** _____

E-mail: _____

Profession: _____

Register Online at www.aiachicago.org

(AIA Northeast Illinois members: put "NEI" after your name to be charged the member rate after your registration is received at the AIA Chicago office)

Or:

Mail Check Payable To:

AIA Chicago
35 East Wacker Dr., Suite 250
Chicago, IL 60601-2116

Phone: 312/670-7770 **Fax:** 312/670-2422

E-mail: pomaranj@aiachicago.org

Or:

Master Card/Visa/AmEx # _____

Expiration Date: _____

Signature _____

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.