

AIA Kentucky
P.O. Box 911128
Lexington, KY 40591-1128

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**



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AIA Kentucky
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AIA Kentucky

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

**Tuesday, March 30, 2010
8:00 a.m. to 3:00 p.m.**

**Park Inn Louisville East
(formerly Louisville Marriott East)
1903 Embassy Square Blvd.
Louisville, KY 40299**

Improving Energy Performance in the Building Envelope

March 30, 2010 - Louisville

- 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

12:15 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

1:30 p.m.

Break

- Meet speakers

1:45 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

3:00 p.m.

Close

Registration

(Continental Breakfast and Lunch Included)

March 30, 2010

- AIA Members** by 3/8 \$ 45.00
- 3/9 to 3/19 \$ 55.00
- Non-Members** by 3/8 \$125.00
- 3/9 to 3/19 \$135.00

**** Registration Deadline: March 19, 2010 ****

Name: _____

Company: _____

Address: _____

City _____ **State** _____ **Zip** _____

Phone: _____ **Fax:** _____

E-mail: _____

Required to receive confirmation of registration

Profession: _____ **AIA #** _____

Secure online registration and payment at:

www.aiaky.org

METHOD OF PAYMENT

Check payable to AIA Kentucky, mail to:

AIA Kentucky
P.O. Box 911128
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Credit Card (*we do not accept American Express/Discover*)

Mastercard or Visa # _____

Name on Card _____

Expiration Date: _____ Signature _____

Address where you receive the bill for this card, with zip code:

Cancellation Policy: No refunds for cancellations after 3/24/10.

Phone: 859/223-8201 **Fax:** 859/223-8202 (credit card required)

E-mail: info@aiaky.org (Reservations not accepted via e-mail)