

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 Central Oklahoma
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AIA Central Oklahoma
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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Other States Depending on State Licensing Board
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Wednesday, March 10, 2010

7:30 AM to 2:00 PM

**Metro Technology Center
1900 Springlake Drive
Oklahoma City, OK 73111**

Improving Energy Performance in the Building Envelope

March 10, 2010 – Oklahoma City

- 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)
March 10, 2010

AIA Members:

By: February 10, 2010 \$60.00 \$ _____
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