

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 Hampton Roads
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AIA Hampton Roads
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
Requirements***

Thursday, March 4, 2010

7:30 AM to 2:00 PM

**Clark Nexsen
Suite 200A
6160 Kempsville Circle
Norfolk, VA 23502**

Improving Energy Performance in the Building Envelope

March 4, 2010 – Norfolk

- 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

(Lunch Included)

March 4, 2010

AIA Members:

By: January 30, 2010 \$40.00 \$ _____
 After: January 30, 2010 \$50.00 \$ _____

Non-AIA Members:

By: January 30, 2010 \$50.00 \$ _____
 After: January 30, 2010 \$60.00 \$ _____

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