

Preventing Moisture, Air, and Vapor in the Building Envelope

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

**Earn 5 AIA Approved HSW
Learning Units for Architects**

**AIA Learning Units May Qualify for PDH's
for Engineers Depending on State Licensing
Board Requirements**



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AIA Central Oklahoma Presents Preventing Moisture, Air, and Vapor in the Building Envelope

A Day of Continuing Education

**Causes and Solutions for Water and Vapor Transmission
in Concrete Slabs
The Role of Air Barriers in the Building Envelope
Sealants and Adhesives for Prevention of Air and
Water Infiltration
Below Grade and Plaza Deck Waterproofing**

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*AIA Learning Units
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Depending on State Licensing Board
Requirements*

Date and Location

Tuesday, February 13, 2007

7:30 AM to 2:15 PM

**Moore Norman Technology Center
South Penn Campus
13301 S. Pennsylvania Ave.
Oklahoma City, OK 73170**

Preventing Moisture, Air and Vapor in the Building Envelope

February 13, 2007 – Oklahoma City

- 7:30 a.m. Registration**
- 8:00 a.m. Opening Remarks**
- 8:15 a.m. Sealants & Adhesives for Prevention of Air & Water Infiltration by May National**
 - Sealant Failures and Resulting Problems
 - Water intrusion, mold, energy inefficiency
 - Sealant Failures Causes
 - Improper sealant selection
 - Improper installation
 - Types of failure
 - Investigation of remedial case studies
 - Specifying and Installing Sealants Properly Based on Project Type
 - Joint movement expectations
 - Urethane or silicone
 - Structural, glazing, weatherseals
 - Test Methods for evaluating and specifying sealants
 - Sealant installation procedure
 - Products and details used with Sealants for Preventing Air and Water Infiltration
 - Vapor and air barriers, flashing, drainage, rain screens and pressure equalization
- 9:30 a.m. Below Grade and Plaza Deck Waterproofing by CETCO Building Materials**
 - Bentonite Waterproofing
 - What is it
 - How does it work
 - Bentonite Waterproofing Systems and Applications
 - Contained Bentonite Membranes
 - Bentonite Waterstops
 - New Bentonite Technology
 - Plaza Deck Waterproofing
 - Hot Applied Rubberized Asphalt
 - Bentonite Composite Sheets
 - Architectural Overburdens
 - Plantings
 - Drainage Systems
 - Vertical, Horizontal, Water Retaining
 - Quality Control
 - Design and project specific details
 - Application - Qualified installer
 - Verification - Inspection
 - Warranties - Understand them
- 10:45 a.m. Break**
 - Meet speakers

11:00 a.m.

The Role of Air Barriers in the Building Envelope by PROSOCO Incorporated

- The basics of air barrier design
 - 9 points to remember about air barriers
- Damage caused by uncontrolled air movement
 - Air movement through wall assemblies
 - Liquid water vs. condensation
 - Mold and deterioration
- Air barriers and energy efficiency
 - Energy savings
 - LEED certification points
- Vapor barriers vs. air barriers
 - Diffusion
 - Permeable vs. impermeable
- Building codes and moisture in walls
 - Managing liquid water
 - Managing water vapor
- Air barriers in construction
 - Air barrier types
 - Checkpoints for effectiveness
 - Fluid-applied vs. fabric wraps
 - Water-based vs. asphaltic
 - Cost comparisons

12:15 p.m.

Lunch

12:45 p.m.

Causes and Solutions for Water Vapor Transmission in Concrete Slabs by Dayton Superior Corporation

- Description of Problem
 - Alkalinity, re-emulsification of adhesives, mold and mildew, corrosion issues
- Understanding Causes
 - Understanding issues around closed and open slabs, where moisture comes from, mix design in concrete slabs, absorptive aggregate in light-weight concrete
- Effect on:
 - Adhesion of low perm floor covering
 - Reinforcing steel and post tension cables
 - Warping on wood floors
 - Fluid applied coatings
- Evaluation
 - Understanding existing conditions, site survey, various tests
- Solutions
 - Discussion for on grade slab vapor barriers
 - Review of solutions for elevated pan slabs
 - Understanding solutions with breathable finishes

2:00 p.m.

Close

Registration

(Continental Breakfast and Lunch Included)
February 13, 2007

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