

## List of 2009 AIA Presentations

### ••• Moisture Management in Steel Stud Walls Using Rigid Insulation (1MMSSW) 1 credit

Participants will have the opportunity to....

Understand how moisture accumulates in steel stud/frame wall cavities.

Learn about design challenges associated with steel stud/frame walls and the continuous insulation (ci) solution.

Evaluate and specify methods that reduce moisture build-up in steel frame walls based on specific geographical locations.



### ••• Insulation for Cavity Wall Applications (CAVXPS) 1 credit

Participants will have the opportunity to....

Understand the "Rain Screen" principle.

Discover why steel and/or masonry walls are thermally inefficient.

Identify the proper placement of building envelope insulation.

Compare various building envelope insulation alternatives.

Understand moisture control and air barriers in cavity walls.

## About the presenters...

ED FUHS has been in the insulation business for more than forty years. He attended Duquesne University in Pittsburgh, PA, and was with the Celotex Corporation for thirty-five years. After managing Celotex's insulation business for more than twenty years, Ed began Fuhsco, Inc., an independent sales agency. Fuhsco has been operating since 2001. Ed is a member of the Construction Specifications Institute (CSI), a past member the Society of the Plastics Industry, and was a founding member of the Polyisocyanurate Insulation Manufacturer's Association. As President of Fuhsco, Inc., he is responsible for both operations and sales.

BOB BERTIG has been in the engineering and construction industry for nearly twenty years. He has a Bachelor's Degree in Chemical Engineering from the University of Rhode Island. Bob has worked in the petrochemical, specialty chemical, refining, pharmaceutical, and construction industries for several Fortune 500 companies and consultants. He is a member of the Construction Specifications Institute (CSI) and was a twenty year member of the American Institute of Chemical Engineers. Bob is Vice President of Fuhsco, Inc., and is responsible for sales in the commercial, residential, and roofing industries across all product lines.

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Independent Sales Agency

2009 Authorized AIA Presentations



**Dow Building Solutions**



**THERMOMASS**  
BUILDING INSULATION SYSTEMS  
By Composite Technologies Corporation

••Using Rigid Insulation in Standing Seam Metal Roofs (RISSMR) 1 credit **NEW!**

Participants will have the opportunity to....

Review various construction methodologies.

Investigate what properties are critical for rigid insulation use.

Understand fire performance, code compliance and sustainability features.

•• Insulated Concrete “Sandwich” Wall Panels (CRE001) 1 credit

Participants will have the opportunity to....

Identify the different types of concrete wall systems.

Review the design and performance of non-composite, composite and partially composite sandwich panels.

Identify the different types of sandwich wall connectors.

Understand the types and properties of rigid foam plastic insulation in concrete walls.

Learn about the overall thermal, fire- resistance, and moisture prevention properties of concrete sandwich wall panels.

•• Using 1-Part Polyurethane Adhesives in Roofing (PUFADH) 1 credit

Participants will have the opportunity to....

Understand the features and benefits of 1-part polyurethane adhesives.

Compare types of adhesives and discuss installation guidelines.

Review Industry & code approvals

•• Protected Membrane Roof Installation Guidelines (PMRIGL) 1 credit

Participants will have the opportunity to....

Understand the construction of protected membrane roofs.

Discuss PMR components including insulation, fabric, ballast, pavers, membranes, docks and flashing.

Review fire and wind ratings.

•• Designing Energy Efficient Steel Stud Wall Assemblies (EEWALL) 1 credit **NEW!**

Participants will have the opportunity to....

Discuss the design components that increase thermal performance, decrease condensation potential and reduce air infiltration.

Review constructability and performance features.

Understand code requirements (fire, structural, air water, vapor).

Identify sustainable features.

•• Continuous Insulation for Metal Buildings (OINMB1) 1 credit

Participants will have the opportunity to...

Review the difference types of metal building insulation.

Understand how to maximize thermal performance while meeting code requirements.

Discuss design requirements for high humidity and moisture conditions.

•• Roof Insulation for Sustainable Buildings (ROOFSB) 1 credit

Participants will have the opportunity to....

Understand the physical properties of rigid, foam plastic insulation used in roofing applications.

Understand how rigid insulation products relate to sustainable building design.

Review different roofing assemblies using rigid, foam plastic insulation.

•• Conventional Roof Insulation - Making an Informed Decision (CONVRF) 1 credit

Participants will have the opportunity to...

Identify what is a conventional roof.

What insulation to use.

Understand the ‘real’ R-value and how to meet sustainable building design criteria with a conventional roof.

••Florida Walls Myths, Moisture, Mold, “Mildew” NO AIA CREDITS JUST INFORMATION

How Insulations work and how they are tested. The differences between Fiberglass, Spray polyurethanes (1/2#, 2#, 3#) and Rigid Plastics (Thermal Sets vs. Thermal Plastics; open cell vs. closed cell; reflective vs. non-reflective).

Performance: Thermal Short Circuits, Mass Effect, Moisture Control, Air Infiltration.

What is and how to calculate dew points.