AIA Birmingham

Presents

Sustainable and Energy Efficient Building Envelope Design and Construction

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

Masonry Walls and Concrete Floors in Sustainable Design
Insulated Wall Claddings for Sustainable and Energy Efficient Design
Greenroofs: Achieving Sustainable Results
Steel Thermal Efficient Panels for Sustainable Design

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Date and Location
Tuesday, September 9, 2008
8:15 AM to 2:45 PM
Alagasco Midtown Business Center
20 South 20th Street
Birmingham, AL 35233

Sponsored by:
AIA Birmingham
205/322-4386
11:30 a.m. Lunch

12:15 p.m. Greenroofs: Achieving Sustainable Results by Tremco Group

Greenroof Introduction
- Design Types - Intensive / Extensive / Semi-Intensive
- Environmental Concerns
  - Stormwater
  - Energy
  - Health & Productivity Impacts
  - Urban Heat Island & Pollution
  - Waste stream Impacts
- Economic Benefits
  - Energy Reduction
  - Sustainable Construction
  - Increased Roof Life Cycle
  - Public Relations & Marketing
- LEED
  - Major components and functions
  - Roofing through Vegetation
  - Design Considerations
  - Case study lessons

1:30 p.m. Steel Thermal Efficient Panels for Sustainable Design by Accelerated Building Technologies, LLC

Construction trends in wall systems
- Panelized systems
- Materials discussion
  - Steel
  - EPS
- Introduction to steel thermal efficient panels
- Fusion process
- Understanding the energy efficiency of a wall system
  - R-value & framing effect
  - Air infiltration
  - Moisture permeability
- Efficiency in the construction cycle through STEP
  - Labor
  - Material waste
- Improving design flexibility and capability
  - Noise, HVAC & exterior finish considerations
- Structural and non-structural capability
- LEED qualifications and standards

2:45 p.m. Close