

New York State Society of Professional Engineers
RPI Technology Park
385 Jordan Rd.
Troy, NY 12180-7620

Sustainable and Energy Efficient Building Envelope Design and Construction

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 Sustainable Design Approved
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:

**New York State Society of
Professional Engineers, Inc.**

**Rochester:
AIA Rochester**

**Albany:
AIA Eastern New York**



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AIA Rochester**

**Albany:
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Presents

Sustainable and Energy Efficient Building Envelope Design and Construction

A Day of Continuing Education

**Masonry Walls and Concrete Floors in Sustainable Design
Insulated Wall Claddings for Sustainable and Energy
Efficient Design**

**Green Roofs: Achieving Sustainable Results
Steel Thermal Efficient Panels for Sustainable Design**

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

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

Dates and Locations

**Tuesday, May 5, 2009
Marriott Rochester Airport
1890 West Ridge Rd.
Rochester, NY 14615**



**Wednesday, May 6, 2009
The Desmond Hotel and Conference Center
600 Albany-Shaker Road
Albany, NY 12211**

Sustainable and Energy Efficient Building Envelope Design and Construction

Rochester – May 5, 2009 ♦ Albany – May 6, 2009
 Speaker Order Will Change on May 6th

- 7:30 a.m. **Registration**
- 8:00 a.m. **Opening Remarks**
- 8:15 a.m. **Masonry Walls and Concrete Floors in Sustainable Design by PROSOCO, Inc.**
 - Energy efficient masonry design
 - Embodied energy
 - Reduce waste
 - Increase service life
 - Building image
 - Improve indoor air quality
 - Reduce maintenance
 - Eliminate mold and mildew
 - Improving the appearance and performance of concrete floors
 - Reduce Waste
 - Increase service life
 - Improve light reflectance
 - Improve indoor air quality
 - Reduce maintenance
 - Simplify sterilization
 - Color and decoration
- 9:30 a.m. **Insulated Wall Claddings for Sustainable and Energy Efficient Design by Dryvit Systems, Inc.**
 - The New Overriding Design Goal
 - Reduce Environmental Impact
 - Increase Economic Benefit
 - Defining Sustainable Design
 - Glossary of Terms
 - The True Measurement
 - Insulated Claddings (EIFS) - How Do They Fit?
 - EIFS Systems and Finish Options
 - Cost Factors of Construction and Use
 - Construction Cost
 - Building Aesthetics
 - Value Engineering
 - Maintaining Quality / Performance
 - Operating Cost
 - HVAC and Maintenance
 - Lifetime of the Building
 - Energy Conservation
 - Environmental Cost
 - Total Carbon Footprint
 - Product Life Cycle Analysis
 - Re-Use / Renovation / Recycle
 - The Total Environmental Impact
- 10:45 a.m. **Break**
 - Meet speakers

- 11:00 a.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 though STEP
 - Labor
 - Time
 - Material waste
 - Improving design flexibility and capability
 - Noise, HVAC & exterior finish considerations
 - Structural and non-structural capability
 - LEED qualifications and standards

- 12:15 p.m. **Lunch**
- 12:45 p.m. **Green Roofs: Achieving Sustainable Results by Tremco Group**
 - Green Roof 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

2:00 p.m. **Close**

Registration

(Continental Breakfast and Lunch Included)

Please Check Workshop You Will Be Attending

Rochester Workshop – May 5, 2009
 Boxed lunch: Ham Turkey Veg.

Albany Workshop – May 6, 2009
 Boxed lunch: Ham Turkey Veg.

Seating Is Limited - Please Register Early

Registration Open Now Until 3 Days Before Each Workshop

\$120.00 \$_____

Name(s): _____

Company: _____

Address: _____

Phone: _____ **Fax:** _____

E-mail: _____
(Please Print) – Confirmation Will Be Sent

Profession: _____

Register Online: www.nysspe.org/calendar.php

Or: Please Mail Check Payable To:
 New York State Society of Professional Engineers
 385 Jordan Rd., Troy, NY 12180

Phone: 518/283-7490 **Fax:** 518/283-7495
E-mail: jamiller@nysspe.org – Jennifer Miller

Or: Master Card/Visa/Amex/Discover# _____

Address: (if different from above) _____

Expiration Date: _____

Signature _____

Cancellation Policy: 100% refund for cancellation made 14 days or more before event. 50% refund for cancellation made less than 14 days before event. No refund for cancellation made 7 days or less before the event. NO SHOWS WILL BE BILLED.