Agenda

Presented by Daniel A. Huard

The High-Performance Building Envelope as Part of a Whole-Building System
- Defining the building envelope and identifying its functions
- Functions of the high-performing building envelope
- Setting performance goals
- Metrics for measuring performance

Relationship between Envelope Performance, Building Codes and Energy Efficiency
- Building code requirements
- Energy code requirements
- Energy efficiency and carbon reduction goals
- Materials and operation
- Energy modeling

Foundations and Floors
- Designing the foundation
- Below-grade habitable space
- Waterproofing and water management
- Air barriers and insulation

Walls Systems
- Framing and insulation
- Exterior cladding
- Vapor and moisture control
- Thermal bridging
- Connections and penetrations

Roofing Systems
- Evaluating roof styles
- Insulation
- Vapor and moisture control
- Roofing materials
- Cool roofs

Doors and Windows
- Entry doors
- Overhead doors
- Windows
- Skylights

Commissioning and Case Studies

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High-Performance Commercial Building Envelope Design and Construction
Live, Interactive Webinar - Monday, December 4, 2023

HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

Learning Objectives

You'll be able to:

Set performance goals and define metrics for measuring building envelope performance.

Review energy-efficiency requirements in the International Building Code and the International Energy Conservation Code.

Discuss strategies for improving the energy efficiency of foundations and floors.

Explore energy-efficient framing, insulation options and vapor and moisture control.

Review high-performance options for doors, windows and skylights.

Examine the commissioning process and review case studies.

HalfMoon Education Live Webinars

High-Performance Commercial Building Envelope Design and Construction

Live, Interactive Webinar - Monday, December 4, 2023

Define high-performance building envelopes

Comply with building code and energy code requirements

Discuss high-performance options for foundations and floors

Design and construct efficient wall and roofing systems

Explore energy-efficient doors and windows

Discuss the commissioning process and review case studies

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CE Hours
6.5 AIA LU|HSW

International Code Council
.65 CEUs (Building)

AIA Continuing Education Provider

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Webinar Information

Log into Webinar
8:30 - 9:00 am CST

First Session
9:00 - 11:00 am CST

Break
11:00 - 11:30 am CST

Afternoon Session
11:30 - 1:30 pm CST

Break
1:30 - 2:00 pm CST

Afternoon Session
2:00 - 4:30 pm CST

Tuition

$319 for individual registration.
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Faculty

Daniel A. Huard
Co-Founder and Principal of Humann Building Solutions, LLC in Las Vegas, NV
Mr. Huard received a Mechanical Engineering degree from Niagara College and Bachelor and Master of Architecture and Master of Urban Planning degrees from SUNY at Buffalo. He holds multiple professional accreditations including LEED AP O+M as well as LEED AP BD+C from Green Business Certification Inc. He was elevated to LEED Fellow in 2017 and is a WELL Faculty member. Mr. Huard's professional expertise has contributed to numerous domestic and international high performance building, sustainable and restorative development projects. He has participated in international events including Greenbuild, WaterBuild, Global Health & Wellness Summit, Living Future unConference, WaterSmart Innovations, Advanced Energy Conference, Energy Management Congress, CAPAC and G2E to name a few. Humann Building Solutions focuses on all aspects of green building and development globally including professional program and project management, construction management, and green building consulting, ASHRAE-ANSI accredited commissioning provision, WELL health-safety rating in addition to building certifications, operational optimization, project validation, investment-grade auditing, net zero and net positive systems designs and implementations.

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers and 6.5 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
6.5 HSW LUs (AIA)

Additional Learning

Whole Building Commissioning to Achieve Performance Goals
- Friday, October 27, 2023 | 8:30 am - 4:00 pm CDT

Understanding NSPE Engineering Code of Ethics
- Friday, October 27, 2023 | 11:00 am - 12:00 pm CDT

Complying with Residential Provisions of the International Energy Conservation Code 2021
- Monday, October 30, 2023 | 8:30 am - 4:30 pm CDT

Fireplaces, Stoves, Flues and Chimneys
- Monday, October 30, 2023 | 9:00 am - 4:00 pm CDT

Energy Modeling for Multi-Family and Commercial Buildings
- Tuesday, October 31, 2023 | 9:00 am - 4:00 pm CDT

Residential Provisions of the International Swimming Pool and Spa Code 2021
- Thursday, November 2, 2023 | 9:00 am - 4:30 pm CDT

Construction and Demolition Waste Management
- Friday, November 3, 2023 | 10:00 am - 12:00 pm CDT

Commercial and High-End Residential Deck Design and Construction
- Tuesday, November 7, 2023 | 9:00 am - 4:00 pm CST

Horticulture and Green Space Design for Construction Sites
- Wednesday, November 8, 2023 | 9:00 am - 4:00 pm CST

Masonry Veneer Design and Construction
- Thursday, November 9, 2023 | 8:30 am - 4:00 pm CST

Air-Source Heat Pumps for Residential and Small Commercial Buildings
- Tuesday, November 14, 2023 | 9:00 am - 4:50 pm CST

Managing Engineering Liability and Risk
- Wednesday, November 15, 2023 | 8:30 am - 4:30 pm CST

Solar Site Assessments
- Tuesday, November 28, 2023 | 1:00 - 3:00 pm CST

Handling Ethical Issues in Construction
- Thursday, November 30, 2023 | 2:00 - 4:00 pm CST

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