HalfMoon Education Live Continuing Education Webinars

Design of Structural Insulated Panels (SIPs) for Residential and Light Commercial Applications

Online - Friday, November 18, 2022 | 9:00 am - 3:50 pm CDT

Credits:
Professional Engineers: 6.0 PDHs
Architects: 6.0 HSW CE Hours AIA: 6.0 LU|HSW
International Code Council: Pending

HalfMoon Education Inc.
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AIA Continuing Education Provider

HalfMoon Education Inc.
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Altoona, WI 54720-0278

Webinar Agenda | Friday, November 18, 2022 | 9:00 am - 3:50 pm CDT (including a 30-min. break)

Introduction to SIPs
- History
- Composition and physical properties
- Manufacturing methods

Thermal Envelope
- Insulation blowing agents
- Heat movement basics
- R-value calculations

On-site Construction and Assembly
- Sealant and adhesive basics
- Foundation connections
- Top-plate and corner connections
- Panel connections
- Window and door headers
- Floor-to-floor framing

Structural Code Provisions
- Prescriptive
- Engineered
- Performance-based

Design of Walls
- Compression
- Out-of-plane bending (strength and deflection)
- Lateral in-plane force (racking)

Design of Floors and Roofs
- Static transverse bending
- Multi-span considerations
- Long-term bending (creep)

Presented by
Scott Hamel, PE, PhD
Professor and Chair in Civil Engineering at the University of Alaska Anchorage

Dr. Hamel completed a B.S. degree in Civil Engineering at Worcester Polytechnic Institute in Massachusetts and a master's degree in Civil Engineering with an emphasis in structures at the University of Colorado at Boulder. Between degrees he worked as a bridge inspector, roadway designer, and bridge engineer in Boston and as a structural engineer in Denver designing hospitals, museums, and courthouses. After earning his license as a professional engineer in Colorado, he returned to school and completed his doctorate in Structural Engineering at the University of Wisconsin-Madison. Dr. Hamel's research was located at the USDA Forest Products Laboratory in Madison and included a three-year long creep study of wood-plastic composites (WPCs). He joined the faculty at the University of Alaska Anchorage (UAA) in 2011, where his current research includes the structural performance of polyurethane structural insulated panels (SIPs) and the seismic performance of residential structures with deficient wood-framed shear walls. At UAA, Dr. Hamel teaches undergraduate and graduate courses in mechanics, structural analysis, structural design, loads on structures, and structural reliability.

Tuition

$319 for individual registration
$289 for two or more registrants from the same company at the same time.

Included with your registration: *PDF seminar manual.*

Can't Attend? Order the Webinar as an On-Demand Package!
Recordings of this webinar are available for purchase. See details online for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and 6.0 HSW continuing education hours for licensed architects in all states.

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 6.0 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA CES.

The International Code Council has approved HalfMoon Education as a Preferred Provider of continuing education (No. 1232). Course approval is pending in the specialty area of Building.

Visit this course listing at www.halfmoonseminars.org for updates on pending credits.

Completion certificates will be awarded to participants who complete this event and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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