

Webinar Information

Online - Wednesday, June 26, 2024

Log into Webinar

8:30 - 9:00 am CDT

Break

12:15 - 12:45 pm CDT

Morning Session

9:00 am - 12:15 pm CDT

Afternoon Session

12:45 - 4:30 pm CDT

Tuition

\$339 for individual registration.

\$309 for two or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

How to Register

- Visit us online at www.halfmoonseminars.org
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Passive House Design and Construction

Live, Interactive Webinar - Wednesday, June 26, 2024

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



Learning Objectives

You'll be able to:

Learn how the Passive House Standard delivers thermal comfort, energy efficiency, healthy indoor air quality and resilience to extreme weather.

Explore the development of the Passive House Standard and its enforcement the two certifying agencies in the U.S.

Identify essential energy calculations and tools to help make them.

Examine the architectural elements of Passive Houses that deliver thermal comfort and energy efficiency.

Get tips on communicating to clients and community members the spectrum of benefits that high-performance construction delivers.



HalfMoon Education Inc., Your LIVE Education Leader Presents Passive House Design and Construction

Live, Interactive Webinar - Wednesday, June 26, 2024



Discuss high-performance measures that deliver comfort, energy efficiency and healthy indoor air quality.

Explore the purpose, principles and development of the Passive House Standard.

Identify the architectural elements of Passive Houses that deliver energy efficiency and thermal comfort.

Communicate the monetary, comfort, health and environmental benefits of Passive House to your clients.

Continuing Education Credits

Professional Engineers

6.5 PDHs

International Code Council

.65 CEUs (Energy)

Architects

6.5 HSW CE Hours

6.5 AIA LU | HSWs

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Continuing
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Agenda

Choose Passive House for High Performance Buildings

J. Gentry

- Introduction to the high-performance of passive house protocols, and how those standards deliver:
- Comfort
 - Energy efficiency
 - Healthy indoor air quality, and
 - Resilience to extreme weather/heat/cold, fires and the associated smoke, and power outages

- Building blocks that enable the cost-effective design, construction, and/or retrofitting buildings for the achievement of Passive House performance:
- Airtightness of the building envelope, including windows and doors
 - Climate specific and strategic insulation, plus the elimination of thermal bridges
 - Continuous fresh and filtered air, with heat recovery as needed

Underlying realities associated with passive house:

- Scalability
- Breadth of application
- Evidence-based performance

Call to action – supporting passive house protocols in your work and/or communities through:

- Training and education
- Pilot project

Passive House Standard: Purpose, Principles and Development

R. Taylor

- History of certifying agencies in US: PHI and PHIUS
- Passive house standard: voluntary performance-based building envelope energy standard
- Passive house principles: insulation, airtight envelope, continuous ventilation
- Energy calculations: how and when to perform them
- Energy calculation tools: an introduction to tools and their functionality
- Assembling a team to ensure quality and performance
- Passive house requirements

Architectural Elements of Passive Houses

P. Westbrook

- Sizing, orientation, solar management
- Energy model
 - Good design practices
 - Solar management
- Envelope design
- Insulation and Infiltration
 - R and U values, thermal/vapor management
 - Foundation, walls, roof
 - Windows and doors
- Mechanical systems
- HVAC systems
 - Ventilation
 - Air distribution/ductwork
 - Hot water
- Electrical systems
- Lighting, controls
 - Renewable energy
 - Energy storage
- Operations and case study

Communicating the Value of High Performance

J. Gentry

- High-performance (design, construction, retrofitting)
- Elements of high performance
 - Benefits of high performance for occupants, owners, communities
 - Mitigation of climate change
 - Adaptation to the increasing impacts of climate change
- Persuasive communication and consulting
- Brief window on marketing (segmentation, targeting, positioning)
 - Selected elements/models/skills associated with persuasive communication (preparation, OPENer, strategic questioning, value proposition, presenting, proposing, handling objections, getting agreement)
- The logic of high performance (presentation and discussion)
- Provide information to enable informed decisions
 - High performance as the baseline (selected tips, ideas, and examples)
 - The case for performance guidelines
 - It is important, it is possible, and it is time

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.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. CEA362), 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 LU|HSWs (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 Energy (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)

Faculty

Jay M. Gentry

Passive House California (PHCA)

Mr. Gentry has successful management experience and has led the development and launch of numerous innovative products and market solutions. In 1980 he founded Con Com-T, Incorporated, a sales and marketing consulting firm. Recognizing the importance and urgency of action on climate change, in 2008 Mr. Gentry narrowed his focus to the emerging building performance industry and the task of making our new and existing buildings more energy efficient. Working with a local green builder he has been involved in the specification and building process of multiple passive certified and other high-performance homes. In 2018 Mr. Gentry joined the board of Passive House California where he works with other leaders to promote awareness and application of passive house protocols with policymakers, architects, developers, and builders, as well as home and business owners throughout California.

Roger Taylor

Owner of DwellGreen of Dallas, TX

Mr. Taylor is a certified passive house consultant and passive house rater. He is a HERS Rater, and is certified by Energy Star, DOE Zero Energy Ready Home, IECC and BPI. Mr. Taylor has served on the ANSI/RESNET National Committee for water efficiency, on the Environmental Committee for the Town of Fairview, Texas, and as a project manager for large commercial data centers. This is a second career after the US Navy, a computer science degree, and 35 years in the computer services industry.

Paul Westbrook

President of RE:source Design in Fairview, TX

Mr. Westbrook designed his own solar home in north Texas in 1996, which won the Energy Value Housing Award for Innovative Design (<https://enerjazz.com/house>). It still ranks as one of the most efficient homes in Texas. While serving as sustainable development manager at Texas Instruments International Facilities, Mr. Westbrook was the LEED AP for the 1.1 million square foot Texas Instruments factory, which was the first LEED Gold semiconductor factory in the world. He led the effort to improve the energy and water efficiency of TI's 20 million square feet of existing global facilities. They were able to double the company's energy and water efficiency in less than 10 years. In 2012, Mr. Westbrook was named a senior fellow for the US State Department's Energy and Climate Partnership of the Americas program. He visited Honduras, Bolivia, Columbia, and Peru where he worked with governments, universities, and industry on efficiency and renewable energy. Mr. Westbrook received his B.S. degree in Mechanical Engineering from Louisiana State University, Baton Rouge, Louisiana in 1982.