

# Agenda

## The Intersection between Design and Performance in Retrofits

M. Ingui

- Why choose passive house
- Amenities and how to achieve them

## Passive Conservation Strategies

S. Moreno-Vacca

M. Meskens

- Overview of passive energy conservation strategies
- Improved thermal envelope performance
- Minimized thermal bridging
- High performance windows
- Optimized solar gain

## Air Tightness

K. Doherty

- Understanding the standard
- Strategies for meeting the standard

## Energy Conservation in Mechanical Systems and Appliances

A. Peel

- HVAC systems
- Lighting systems
- Appliances
- DHW Systems

## Windows, Doors and Moisture-Protection Design

J. Torres Moskovitz

- Window calculations
- Window placement
- Widow features
- Controlling moisture in materials and assemblies

## Adding Optional Renewable Energy Systems

J. Torres Moskovitz

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## Retrofitting Houses Toward the Passive House Standard

Live, Interactive Webinar - Friday, May 3, 2024

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



## Learning Objectives

### You'll be able to:

**Weigh** the costs and benefits of retrofitting homes toward the Passive House Standard.

**Achieve** greater energy efficiency with improved thermal envelope performance.

**Explore** Passive House Standard provisions on air tightness.

**Improve** energy conservation in mechanical systems and appliances.

**Improve** energy efficiency with high-performance windows.

**Consider** options for adding renewable energy systems to retrofitted homes.



## HalfMoon Education Live Webinars

# Retrofitting Houses Toward the Passive House Standard

Live, Interactive Webinar - Friday, May 3, 2024



**Evaluate** the benefits of retrofitting homes toward the Passive House Standard

**Implement** passive energy conservation strategies

**Understand** the importance of air tightness

**Improve** energy conservation in mechanical systems

**Install** high-performance windows to improve energy efficiency

### Continuing Education Credits

#### Professional Engineers

6.0 PDHs

#### Architects

6.0 HSW CE Hours

6.0 AIA LU | HSW

#### International Code Council

.6 CEUs (Energy)

AIA  
Continuing  
Education  
Provider



# Webinar Information

## 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 - 4:00 pm CDT

## 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.

## How to Register

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# Faculty

**Michael Ingui** is the president of Ingui Architecture and the founder of the Passive House Accelerator and a co-founder of Source 2050. Ingui Architecture is a collaborative architectural design firm with extensive experience in residential, institutional, and commercial projects. Mr. Ingui and the firm have received various design awards and have been included in numerous publications including *The Wall Street Journal*, *The New York Times*, and most recently CNN. Ingui Architecture is a leader in the Passive House movement and almost all the firm's architects are Certified Passive House Designers.

**Sebastian Moreno-Vacca** is the founding member of A2M. He leads the firm's future-proof vision, aesthetics, and drives to offer regenerative design for a decarbonized future. A2M is an architecture agency created in 2000, which specializes in the field of the environment, research and the creation of exemplary projects. Over the years, after more than 90 projects, the agency has built a reputation as a pioneer in the field of sustainable architecture by exclusively developing Passive House, sustainable, circular, zero energy, CO2 neutral or self-sufficient buildings.

**Manon Meskens** is the architect and development manager of A2M NYC (M2A). Ms. Meskens has seven years of experience in Passive House design. She studied architecture and sustainable design at ULB in Brussels. There, she worked on Passive House buildings from small, residential projects to large-scale, urban planning throughout Europe. In 2018, she moved to New York City, where she has spearheaded sustainable projects throughout the U.S. and Canada while giving lectures and training professional networks.

**Kate Doherty, CPHD** supports the High-Performance Building Solutions team at Steven Winter Associates. She conducts Passive House feasibility studies for new clients and conducts energy modeling and 3D building modeling for a range of building types pursuing Passive House certification. Ms. Doherty provides support for clients throughout their design and construction phases while completing documentation submission for final certification. Her experience at SWA, with a wide range of project types including historical retrofits, multifamily, and commercial use buildings, allows her to be most effective in supporting the team.

**Andrew Peel, MSc** is the founder and managing principal of Peel Passive House Consulting Passive House Certifier, Certified Passive House Consultant and Trainer. Mr. Peel's primary areas of expertise are in low carbon buildings and renewable energy. His professional and academic experience ranges from consultancy and program management, to authoring technical and non-technical articles, course and lecture delivery, and technical research. Mr. Peel provides Passive House and sustainability consultancy, certification, and training services to the building sector.

**Julie Torres Moskovitz, AIA, WELL & LEED AP, CPHC**, is the founding principal of Fete Nature Architecture, PLLC. What drives her design practice is to engage in the world collaborating for thoughtful spaces and sustainability for all. Social and environmental justice are at the core of FNA's research and work. She received her Master of Architecture degree at the University of Pennsylvania and a BA degree at the University of Michigan in African Studies (colonialism and neocolonialism in Francophone Africa) and French.

For more information on the presenters:  
Please visit [www.halfmoonseminars.org](http://www.halfmoonseminars.org) or scan the QR code.

# 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 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 License 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 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .6 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: 6.0 HSW LUs (AIA)

# Additional Learning

## Residential and Small Commercial Roof Design and Construction

- Thursday, March 28, 2024 | 9:00 am - 4:30 pm CDT

## 2021 International Residential Code: Electrical Systems

- Tuesday, April 2, 2024 | 12:00 - 4:30 pm CDT

## Electrifying Existing Homes: Installation, Commissioning, and Customer Education

- Thursday, April 4, 2024 | 10:00 am - 12:00 pm CDT

## Engineered Lumber Design and Construction

- Wednesday, April 10, 2024 | 9:00 am - 5:00 pm CDT

## National Electrical Code 2023

- Wednesday, April 10, 2024 | 8:30 am - 5:00 pm CDT

## Air-Source Heat Pumps for Residential and Small Commercial Buildings

- Thursday, April 11, 2024 | 9:00 am - 5:00 pm CDT

For more information and other online learning opportunities visit:

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