

Agenda

*Presented by Anthony J. Musso,
Daniella Ravn, and Glenn Hooper*

Understanding the Energy Efficiency of Conventional Construction

Facts and figures on residential energy use
History of energy-conserving residential construction
Building code requirements
Energy conservation incentives

Passive House Standard: Purpose, Principles and Development

History of certifying agencies in US: PHI and PHIUS
Passive House Standard: voluntary performance-based building envelope energy standard
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
Examining common design features of Passive Houses

Architectural Elements of Passive Houses

Siting, sizing and orientation
Super-insulated envelope with minimized thermal bridging
Efficient ventilation
Ultra-efficient lights, fixtures and appliances
Summer shading and cooling strategies
Winter solar gain and heat retention strategies
Integrating renewable energy technologies

Mechanical Systems in Passive Houses

Optimizing heat gains

- Passive solar heat gains
- Indoor environmental heat gains

Heat exchanger
Supplemental heating
Renewable energy system integration
Energy-efficient appliances

Evaluating Passive House Case Studies

Adapting Passive House for New York
Case studies: in the planning process, under construction and finished projects

Passive House: Planning and Design
White Plains, NY - Friday, March 2, 2018



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Learning Objectives

You'll be able to:

Review the history of energy-conserving residential construction.

Explore the Passive House standard and discuss useful energy calculation tools.

Consider seasonal heating and cooling strategies and examine architectural elements of Passive Houses.

Optimize heat gains in winter, minimize them in summer and learn about integrating renewable energy systems.

Receive tips on adapting Passive House for New York, and review case studies.



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Review facts and figures and building code requirements related to conventional residential energy use

Explore the purpose, principles and development of the Passive House standard

Evaluate architectural elements of passive houses

Examine mechanical systems in passive houses

Discuss case studies of completed passive house projects

Continuing Education Credits

Professional Engineers

6.5 Continuing Ed. Hours

Architects

6.5 HSW Continuing Ed. Hours
6.5 AIA HSW Learning Units

Contractors

Non-Credit Continuing Ed.



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Anthony Musso founded the firm of Anthony J. Musso, Architect, in 1980. Since then the firm has provided architectural design, building performance and sustainable design, interior design, landscape design, and graphic design in projects on Long Island and in Metropolitan New York, Florida, North Carolina, Pennsylvania, New Jersey and Bahamas. The firm's client base is predominantly the custom residential market, although its work has also included the areas of restaurant design, commercial office buildings, country club facilities, school design, medical office projects and research facilities. The office is a full service firm, encompassing architectural design, building performance and sustainable design, planning, structural mechanical engineering, site planning, landscape design and interior design. The goals of the firm are to achieve a “near zero” energy sustainable building design. The combination of architecture, interior design and landscape design as one discipline to create a unified design solution has been the office doctrine. Mr. Musso is the sole proprietor with supporting part time/freelance architects and interior designers. He is licensed to practice architecture in New York, Virginia and New Jersey.

Daniella Ravn is a licensed architect in New York State and Brazil, and is founder of New Habitat Architecture & Design, P.C. She is a certified Passive House consultant since 2013 and her experience reaches several different areas, providing architectural design for residential, commercial and scientific projects. New Habitat Architecture & Design is a multi-disciplined firm, focusing on sustainable design through the adoption of passive house principles. The firm provides complete services from land surveying, site planning, and civil engineering to architecture and including passive house design and deep energy retrofit renovations. Some of the recent projects designed by New Habitat include a 5,000 sf Passive House under construction in Lloyd Neck, with goals to achieve Net Zero status.

Glenn Hooper is the owner of Residential Energy Conservation, located in Suffolk County, New York. He has been certified by the Building Performance Institute as a building analyst, shell/envelope professional and heating professional. Mr. Hooper currently is an active HERS Rater. He has been certified by Snell as a Level I certified Thermographer. Mr. Hooper has also been a past RESNET rater trainer and quality assurance designee. He is a Passive House rater, DOE - qualified home assessor, and NYS trainer for RHVAC Manual J 8th Edition with Training for the Trades. Mr. Hooper’s company won DOE Century Club Awards in 2010, 2011, and 2012 for completing over 100 home performance projects per year. He also sat on the board for the Long Island and NYS Building Performance Contractors Association and was a board member for the North East HERS Raters Association as the QA chairperson. Since 2006, Mr. Hooper has consulted on hundreds of homes in the tri-state area for architects, builders and homeowners and has worked extensively in trying to educate the industry in all areas of building science.

Seminar Information

Crowne Plaza White Plains
66 Hale Avenue
White Plains, NY 10601
(914) 682-0050

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:00 pm
Lunch (On your own)
12:00 - 1:00 pm
Afternoon Session
1:00 - 4:30 pm

Tuition
\$279 for individual registration
\$259 for three or more registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual.

- How to Register**
- Visit us online at www.halfmoonseminars.org
 - Mail-in or fax the attached form to 715-835-6066
 - Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar. You may also send another person to take your place.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Continuing Education Credit Information

This seminar is open to the public and offers up to 6.5 continuing education hours to professional engineers and 6.5 HSW continuing education hours to architects in all states, excluding Florida architects.

HalfMoon Education is deemed a New York-approved continuing education provider for architects via its affiliation with the American Institute of Architects. HalfMoon Education is an approved continuing education provider for New York engineers (NYSED Sponsor No. 35) and New Jersey engineers (Approval No. 24GP00000700).

The American Institute of Architects has approved this event for 6.5 Learning Units (Sponsor No. J885). Courses approved by the AIA qualify for New Jersey and District of Columbia architects. Only full attendance can be reported to the AIA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, North Carolina, and North Dakota.

This event offers a non-credit continuing education opportunity to construction contractors, but it has not been approved by any state with a continuing education requirement for contractors.

Additional Learning

January Webinar Series

Deep Foundations

- **Deep Foundation Site Evaluation**
Wed., Jan. 17, 2018, 11:00 AM - 12:00 PM CST
- **Overview of Deep Foundations**
Wed., Jan. 17, 2018, 12:30 - 2:00 PM CST
- **Deep Foundation Pile Design**
Thurs., Jan. 18, 2018, 11:00 AM - 12:30 PM CST
- **Deep Foundation Installation and Testing**
Thurs., Jan. 18, 2018, 1:00 - 2:00 PM CST

Pumping and Piping System

- **Introduction to Pumps: Operation, Principles and Calculations**
Thurs., Jan. 25, 2018, 12:00 - 2:00 PM CST
- **Design Standards and Codes**
Thurs., Jan. 25, 2018, 2:30 - 3:30 PM CST
- **Piping System Components, Materials and Calculations**
Fri., Jan. 26, 2018, 12:00 - 2:00 PM CST
- **Handling Pump and Piping System Problems**
Fri., Jan. 26, 2018, 2:30 - 3:30 PM CST

For more information visit:
www.halfmoonseminars.org/webinars/

Registration

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How to Register	
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Complete the entire form. Attach duplicates if necessary.	
Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. ()  I need special accommodations. Please contact me.	

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

Checks: Make payable to HalfMoon Education Inc.

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