

# Agenda

Presented by Patrick Conlon, P.E.

## Wood Frame Fundamentals for Residential and Small Commercial Buildings

Short history of the development of conventional wood framing  
American Wood Council's National Design Specification for Wood Construction  
Wood framing provisions of the International Building Code  
ASCE-7 load combinations  
Project conception and material choices  
Prescriptive design for wind and seismic loads  
Roof/floor framing choices  
Beams, posts and trusses  
Design tools and software  
Anchorage/load path  
Connections and fasteners

## Steel Frame Fundamentals for Residential and Small Commercial Buildings

AISC and AISI Code applicability  
Project conception and material choices  
Schematic design choices  
Conceptual framing decisions  
Roof framing choices: truss or stick frame  
Steel guardrail design  
Design tools and software  
Welded and bolted connections

## Wood Frame and Steel Frame Design and Construction

North Haven, CT - Thursday, December 12, 2019



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PO Box 278  
Altoona, WI 54720-0278

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## Learning Objectives

### You'll be able to:

**Understand** the American Wood Council's National Design Specification for Wood Construction.

**Comply** with wood construction provisions of the International Building Code.

**Construct** wood framing for residential and small commercial buildings that resists fire, and that handles wind and seismic loads.

**Reference** American Institute of Steel Construction and American Iron and Steel Institute codes on steel framing.

**Make** informed decisions on steel framing materials, connection choices and fasteners.

**Coordinate** steel framing with mechanical, electrical and plumbing systems.



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**Examine** wood and cold-formed steel frame fundamentals for residential and small commercial buildings

**Review** framing provisions of the International Building Code and state and local building codes

**Consider** roof framing choices on wood and steel frame projects

**Analyze** the AISI Code of Standard Practice and AWC National Design Specification

**Learn** about design tools and software

### Continuing Education Credits

#### Architects

6.5 HSW Continuing Ed. Hours  
6.5 AIA LU|HSW

#### Professional Engineers

6.5 Continuing Ed. Hours

#### International Code Council

.65 CEUs (Building)

#### Contractors

Non-Credit Continuing Ed.



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AIA  
Continuing  
Education  
Provider

# Faculty

**Patrick Conlon, P.E.** *Founder and Managing Principal of Conlon Engineering, LLC*

Patrick Conlon is a licensed professional engineer with 20 years of high-profile structural engineering experience. He has lent his expertise and creativity to large, challenging new high-profile construction projects including the iconic Yankee Stadium, the 75-story tall One57 in Manhattan, and the new 22,000 sf steel-framed column-free Blessed Kateri Church in Lagrangeville, New York, as well as numerous other projects of various scales. The owners, architects, contractors, and property managers with whom he collaborates seek him out as a project partner because of his work ethic and focused client service.

As founder and managing principal of Conlon Engineering, LLC, in Brookfield, Connecticut, Mr. Conlon has created a culture that is highly client-focused and disciplined, making it easy for colleagues to recommend him. He takes great pride in the firm's ability to address structural challenges for diverse clients in the areas of new construction, renovation and structural rehabilitation of existing structures in a variety of categories including commercial, residential, industrial, office, school, religious, historic and recreational buildings; adaptive reuse projects; LEED accredited projects; peer reviews of other engineers' work; and feasibility studies.

Mr. Conlon is a registered professional engineer in Connecticut, New York, New Jersey and Massachusetts. He has BS and MS degrees in Civil Engineering from Manhattan College and is a member of the American Society of Civil Engineers, the Structural Engineers Coalition (CT), the International Code Council and the American Institute of Steel Construction.

## Here's what past attendees had to say about the program and presenter Pat Conlon:

"Good, informative." – *Structural Engineer*

"Highly knowledgeable and an excellent teacher." – *Architect*

"Excellent speaker!! Very knowledgeable." – *Project Manager/Engineer*

"This course was fantastic and I loved the clear, easy to follow, engaging presentation!" – *Architect*

# Seminar Information

## Best Western Plus North Haven

201 Washington Avenue  
North Haven, CT 06473  
(203) 239-6700

Registration  
8:00 - 8:30 am  
Morning Session  
8:30 - 11:30 am  
Lunch (on your own)  
11:30 am - 12:30 pm  
Afternoon Session  
12:30 - 4:30 pm

## Tuition

**\$289** for individual registration

**\$269** for three or more registrations.

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

**Receive a reduced tuition rate of \$101** by registering to be our on-site coordinator for the day. For availability and job description, please visit [www.halfmoonseminars.org](http://www.halfmoonseminars.org).

## How to Register

- Visit us online at [www.halfmoonseminars.org](http://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 or the self-study package. You may also send another person to take your place.

## Continuing Education Credit Information

This seminar is open to the public and offers 6.5 continuing education hours to professional engineers and 6.5 HSW continuing education hours to architects in all states. Continuing education is not mandatory in Connecticut.

This seminar is approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885). Only full attendance can be reported to the AIA/CES. Visit [www.halfmoonseminars.org](http://www.halfmoonseminars.org) for complete AIA/CES information under this course listing.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects.

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

This course offers a non-credit continuing education opportunity to contractors. It has not been approved by any state contractor licensing entity for required continuing education credit.

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.

# Additional Learning

## Webinar Series

### Complying with ADA Standards for Accessible Design

- **Complying with State & Federal Accessibility Requirements**

Thurs., November 7, 2019, 11:00 AM - 1:30 PM CST

- **Applying the 2010 & A117.1 Accessibility Standards**

Fri., November 8, 2019, 11:00 AM - 1:30 PM CST

### Fire Protection and Building Codes

- **Fire Protection and Life Safety Design**

Tues., November 12, 2019, 11:00 AM - 12:00 PM CST

- **Occupancy Classifications**

Tues., November 12, 2019, 12:30 - 2:30 PM CST

- **Means of Egress**

Tues., November 19, 2019, 11:00 AM - 1:00 PM CST

- **Fire Protection Features and Equipment**

Tues., November 19, 2019, 1:30 - 3:00 PM CST

### Structural Forensic Engineering

- **Introduction to the Forensic Engineering Process**

Tues., November 12, 2019, 11:00 AM - 1:00 PM CST

- **Causes of Failures and the Forensic Engineering Report**

Tues., November 12, 2019, 1:30 - 3:30 PM CST

- **Forensic Examination of Structures and Use in Litigation**

Wed., November 13, 2019, 11:00 AM - 1:00 PM CST

### Stormwater Management Systems

- **Basics of Stormwater Regulations and Requirements, Including EPA Regulations**

Wed., November 20, 2019, 11:00 AM - 12:00 PM CST

- **Site Planning and Choosing Best Stormwater Management Practices**

Wed., November 20, 2019, 12:30 - 2:00 PM CST

- **Working with the MS4 Regulator**

Thurs., November 21, 2019, 11:00 AM - 12:00 PM CST

- **Long-Term Stormwater Management Practices**

Thurs., November 21, 2019, 12:30 - 2:00 PM CST

For more information visit:  
[www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

## Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!


Audio recordings of this seminar are available for purchase starting at \$269. See registration panel 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.

# Registration

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How to Register		Registrant Information
<b>Online:</b> <a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
<b>Phone:</b> 715-835-5900		<b>Additional Registrants:</b> Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Fax:</b> 715-835-6066		Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Mail:</b> HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Complete the entire form.</b> Attach duplicates if necessary.		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 - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

( ) **I am not attending.** Please send me the self-study package:

Downloadable MP3 Audio/PDF Manual for **\$269.00**.

CD/Manual Package for **\$289.00**.  USB/Manual Package **\$289.00**.

(Please allow four weeks from seminar date for delivery)

**Checks:** Make payable to HalfMoon Education Inc.

**Credit Card:** *Mastercard, Visa, American Express, or Discover*

Credit Card Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_ CVV2 Code: \_\_\_\_\_

Cardholder Name: \_\_\_\_\_

Billing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Signature: \_\_\_\_\_

Email: \_\_\_\_\_