

# Agenda

*Presented by Patrick Conlon, P.E.*

## Engineered Lumber Products and Design Guidance

Types of engineered lumber products  
Structural and non-structural  
National Design Specification for Wood Construction  
Building codes  
Design criteria

## Design for Structural Engineered Lumber

Reference design values and adjustments  
Bending members  
Compression members  
Columns  
Tension members  
Combined loads  
Bearing capacity  
Flitch beams

## Structural Glued Laminated Timber

Types of members  
Applications and design values  
Adjustments and special considerations

## Pre-fabricated Wood I-Joists

Types of members  
Applications and design values  
Adjustments and special considerations  
Pro-rating

## Structural Composite Lumber and Wood Structural Panels

Types of products (beams and columns)  
Applications and design values  
Adjustments and special considerations

## Connectors and Fasteners

Nails  
Screws, lag screws and wood screws  
Bolts  
Prefabricated connections  
Details

## Structural Design

Software  
Floor framing  
Roof framing  
Beams and joists

**Engineered Lumber Design and Construction**  
Warwick, RI - Friday, October 11, 2019

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## Learning Objectives

### You'll be able to:

**Explore** engineered lumber products, both structural and non-structural.

**Review** design values for bending and compression members.

**Discuss** applications and design values for glued laminated timber and pre-fabricated wood I-joists.

**Evaluate** structural composite lumber and wood structural panels.

**Identify** appropriate connectors and fasteners with confidence.

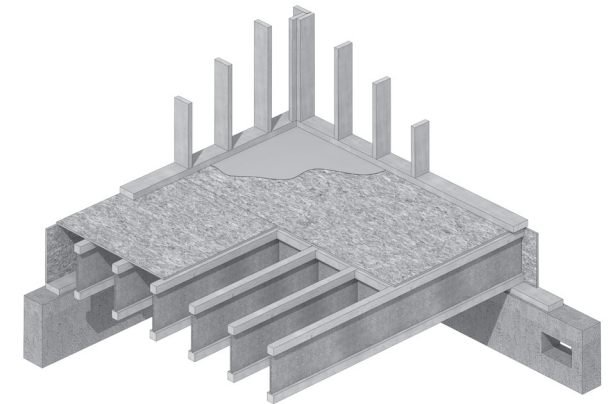
**Assess** materials and techniques for roof and floor framing.



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# Engineered Lumber Design and Construction

*Warwick, RI - Friday, October 11, 2019*



**Explore** structural and nonstructural engineered lumber products

**Investigate** design values for bending, compression and tension members

**Discuss** structural glued laminated timber and pre-fabricated wood I-joists

**Learn** about structural composite lumber and wood structural panels

**Identify** appropriate connectors and fasteners for use with engineered lumber

## Continuing Education Credits

### Architects

6.5 HSW CEHs  
6.5 AIA LU|HSW

### Contractors

Non-Credit Continuing Ed.

### Professional Engineers

6.5 PDHs\*

\* Continuing education not mandatory in RI



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Additional Learning

**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, the new 22,000 sf steel-framed column-free Blessed Kateri Church in Lagrangeville, NY 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, Brookfield, CT, Mr. Conlon has created a culture that is highly client-focused and disciplined, making it easy for our colleagues to recommend him. He takes great pride in their 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 have to say about the program and speaker Patrick Conlon:

“Very well spoken and knowledgeable of the subject material.”  
– *Structural Engineer*

“Kept a dry subject interesting for seven hours!”  
– *Architect*

“Pat’s seminars always move fast as he keeps it interesting and relevant.” – *Town Engineer*

Webinar Series

Introduction to Hydro Energy Logic Modeling Software (HELP-FL)

- **Introduction to Hydro Energy Logic Program Modeling Software (HELP-FL), Part I**  
Tues., August 20, 2019, 11:00 AM - 2:00 PM CDT
- **Introduction to Hydro Energy Logic Program Modeling Software (HELP-FL), Part II**  
Wed., August 21, 2019, 11:00 AM - 2:30 PM CDT

Small Wind Energy Systems

- **Small Wind Energy System Components**  
Thurs., August 22, 2019, 11:00 AM - 1:00 PM CDT
- **Small Wind Energy Siting and Sizing**  
Fri., August 23, 2019, 11:00 AM - 1:00 PM CDT

Deep Foundations and Excavations

- **Earth Retention**  
Tues., August 27, 2019, 11:00 AM - 1:30 PM CDT
- **Deep Foundations**  
Wed., August 28, 2019, 11:00 AM - 1:30 PM CDT

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

Seminar Information

|                                                                                                   |                                                                         |                                                                               |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>Radisson Hotel Providence Airport</b><br>2081 Post Road<br>Warwick, RI 02886<br>(401) 739-3000 | Registration<br>8:00 - 8:30 am<br>Morning Session<br>8:30 am - 12:00 pm | Lunch (On your own)<br>12:00 - 1:00 pm<br>Afternoon Session<br>1:00 - 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 HSW continuing education hours to architects and 6.5 PDHs for professional engineers in all states with continuing education requirements, which does not include Rhode Island engineers. Educators and courses for architects are not subject to preapproval in Rhode Island.

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 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.

This course offers a continuing education opportunity to construction contractors. It has not been approved by any state contractor licensing entity for mandatory 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.

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

Engineered Lumber Design and Construction

Warwick, RI - Friday, October 11, 2019

| How to Register                                                                                                                                           | <b>Registrant Information</b><br>Name: _____<br>Company/Firm: _____<br>Address: _____<br>City: _____ State: _____ Zip _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><br><b>Additional Registrants:</b><br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><br>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.<br><br>( )  I need special accommodations. Please contact me. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Online:</b><br><a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Fax:</b><br>715-835-6066                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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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**.(Please allow four weeks from seminar date for delivery)

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

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

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