

Agenda

Structural Design Criteria Building code Reference standards Code versus owner criteria Loads and combinations Deflection and drift	<i>P. Conlon</i>
General Structural Design Examples Floor joists Floor beam Column Span tables Flitch beam Hip beam	<i>P. Conlon</i>
Pre-Fabricated Wood Trusses Project suitability Design criteria Pitfalls to avoid	<i>P. Conlon</i>
Wood Structural Panels Braced wall panel design for non-engineers	<i>P. Conlon</i>
Installation & Inspection of Engineered Wood Products Use manufacturer literature to find recommendations and proper details to be used in the installation and inspection of engineered wood floor and roof systems Identify bad installation through inspection and how to remedy issues Field photo review	<i>S. Lyons</i>
Fire Design with Engineered Wood Products Summarize the differences between fire-resistive and fire-resistance-rated floor assemblies Recall the facts about I-joist framed floors and their fire performance as it relates to IRC codes Identify equivalent methods to comply with code in • Section R501.3 of the 2012 IRC • Section R302.13 of the 2015/2018 IRC • “The Membrane Requirement”	<i>S. Lyons</i>
Multifamily Construction with Engineered Wood Products Identify the five types of construction per IBC code Compare the three common methods of framing Recall some of the typical detailing and details regarding this type of construction Apply the tools and resources available to assist with multifamily structure design	<i>S. Lyons</i>

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Engineered Lumber Design and Construction

Live, Interactive Webinar - Friday, July 16, 2021

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Learning Objectives

You'll be able to:

- Comply** with building codes and reference standards when using engineered lumber for structural design.
- Discuss** structural applications for engineered lumber, including floor joists, floor beams, columns, flitch beams and hip beams.
- Explore** applications for pre-fabricated wood trusses and for wood structural panels.
- Identify** proper installation techniques for engineered wood floor and roof systems.
- Evaluate** the fire resistance of engineered wood products.
- Identify** appropriate uses of engineered wood products in multifamily construction.



HalfMoon Education Online Learning

Engineered Lumber Design and Construction

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| Examine structural design criteria for engineered lumber | Learn to install and inspect engineered wood products |
| Explore general structural design examples of floor joists and floor beams | Analyze the differences between fire resistive and fire- resistance rated floor assemblies |
| Discuss pitfalls to avoid when using pre-fabricated wood trusses | Use engineered wood products in multi-family construction |

Continuing Education Credits

Professional Engineers 6.0 PDHs	AIA 6.0 LU HSW
Architects 6.0 HSW CE Hours	International Code Council .6 CEUs (Building)



Faculty

Patrick Conlon *Conlon Engineering, LLC, 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 challenging 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, New York; numerous custom luxury homes, and numerous interesting projects of various scales. The owners, architects, contractors, and property managers with whom he collaborates seek him out as a partner because of experience, talents, and client focused 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. Conlon Engineering's portfolio includes a variety of categories such as 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, Massachusetts and South Carolina. He has BS and MS degrees in Civil Engineering from Manhattan College, and he 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.

Scott Lyons *Boise Cascade Engineered Wood Products*
Mr. Lyons has 15 years' experience in the building materials industry, including roofing, insulation, granite, dimensional lumber and engineered wood products. He is currently the multi-family/light commercial manager responsible for educating and driving specification for Boise Cascade engineered wood products within that segment.

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

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Additional Learning

Designing Interiors for Human Wellness
- Thurs, June 10, 2021 | 11:00 am - 3:05 pm CDT
- Fri, June 11, 2021 | 11:00 am - 1:25 pm CDT

Practical Site Engineering: Science & Techniques
- Thurs, June 10, 2021 | 11:00 am - 3:15 pm CDT
- Fri, June 11, 2021 | 11:00 am - 2:15 pm CDT

Structural Forensic Engineering
- Tues, June 15, 2021 | 10:00 am - 1:45 pm CDT
- Wed, June 16, 2021 | 10:00 am - 2:15 pm CDT

Timber Frame Design and Construction
- Tues, June 15, 2021 | 8:30 am - 4:30 pm CDT

International Residential Code 2021
- Wed, June 16, 2021 | 8:30 am - 4:30 pm CDT

Engineering Ethics: Handling Ethical Issues in Professional Engineering Practice
- Fri, June 18th, 2021 | 11:00 am - 12:00 pm CDT

International Existing Building Code 2021
- Tues, June 22, 2021 | 8:30 am - 5:00 pm CDT

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Continuing Education Credit Information
This webinar offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to architects licensed in all states.

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Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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Registration

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