

Agenda

Presented by Theodore O'Donnell, P.E., S.E.

Engineered Lumber Products and Design Guidance

Examining types of engineered lumber products

- Structural and non-structural

National Design Specification for Wood Construction

ASCE Standard for Load and Resistance Factor Design

for Engineered Wood Construction

Building codes

Design Values and Equations for Structural Engineered Lumber

Reference design values and adjustments

- Bending members
- Compression members
- Solid columns
- Tension members
- Combined loads
- Bearing capacity

Structural Glued-Laminated Timber

Types of members

Applications and design values

Adjustments and special considerations

Timber Poles and Piles

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

Structural Composite Lumber and Wood Structural Panels

Types of products

Applications and design values

Adjustments and special considerations

Connectors and Fasteners

Mechanical connections

Dowel fasteners

Split ring and shear plate connectors

Timber rivets

Fire Design and Finishing of Exposed Members

Using Engineered Lumber and Timber Products
Fairfax, VA - Friday, January 26, 2018

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Learning Objectives

You'll be able to:

Comply with building codes and design specifications for engineered wood construction.

Identify design values and equations for structural engineered lumber.

Utilize engineered wood products on your projects, including glued-laminated timber, timber poles and piles, and pre-fabricated wood I-joists.

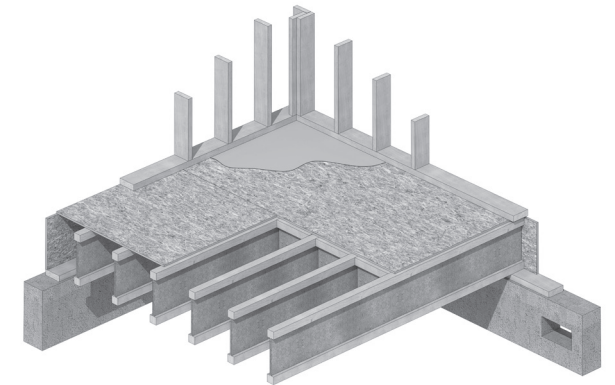
Understand how to properly use connectors and fasteners with engineered wood products.

Discuss fire design and finishing of exposed members.



Using Engineered Lumber and Timber Products

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Examine structural and non-structural engineered lumber products

Understand design values and equations for structural engineered lumber

Learn to work with glued-laminated timber, timber poles and piles, and pre-fabricated wood I-joists

Explore structural composite lumber

Discuss fire design and finishing of exposed members

Continuing Education Credits

Professional Engineers

7.0 Continuing Ed. Hours

Contractors

Non-Credit Continuing Ed.

Architects

7.0 Continuing Ed. Hours (HSW)

7.0 AIA HSW Learning Units



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Faculty

Theodore O’Donnell, P.E., S.E. *O’Donnell Structural Consulting, LLC*

O’Donnell Structural Consulting, LLC, was formed in 2011 by Theodore O’Donnell to provide professional engineering services with special emphasis on design of wood structures. Mr. O’Donnell graduated in 1988 from Youngstown State University with a BSCE degree with a structural concentration. Upon graduation he went to work for Inter-Lock Steel doing wood truss design and computer programming. In 1991 Inter-Lock was bought by MiTek Industries where he continued his truss design work. In 1995 he relocated to the Shenandoah Valley in Virginia to become a field engineer with MiTek. In 1999 he took over as chief engineer at MiTek’s Ohio office and then moved back to Virginia in 2001 to become vice president of engineering with Blue Ridge Truss & Supply.

Here’s what past attendees had to say about the program and presenter Theodore O’Donnell:

“Good course, good material, good presenter.” – *Construction Equipment Manufacturer*

“Liked the practical discussion/comments from instructor.” – *Construction/Engineering*

“Great presenter, very knowledgeable, easy to follow.” – *Engineer*

Seminar Information

Hilton Garden Inn Fairfax
3950 Fair Ridge Drive
Fairfax, VA 22033
(703) 385-7774

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 - 5:00 pm

Tuition

\$279 for individual registration
\$259 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.

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 or the CD/manual package. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 continuing education hours to professional engineers and architects (HSW) in all states, except Florida architects. Educators and courses are not subject to preapproval in Virginia.

This event has been approved by the American Institute of Architects for 7.0 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES.

HalfMoon Education is deemed an approved architect continuing education sponsor in New York. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota.

This seminar offers a non-credit continuing education opportunity to construction contractors; it has not been approved by any state contractor licensing entity for continuing education purposes.

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

Can’t Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Additional Learning

Webinar Series

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development, Part I**

Thurs., Nov. 30, 2017, 11:00 AM - 3:15 PM CST

- **Solar Photovoltaic Project Design and Development, Part II**

Fri., Dec. 1, 2017, 11:00 AM - 2:15 PM CST

Construction Cost Estimating

- **Introduction to Cost Estimating**

Thurs., Dec. 7, 2017, 11:00 AM - 12:30 PM CST

- **Cost Components - A Closer Look at the Estimates**

Thurs., Dec. 7, 2017, 1:00 - 3:00 PM CST

- **Cost Estimate Organization**

Fri., Dec. 8, 2017, 11:00 AM - 1:00 PM CST

- **Cost Estimating Topics**

Fri., Dec. 8, 2017, 1:30 AM - 3:00 PM CST

Retaining Walls and Slope Stabilization

- **Retaining Wall Basics**

Thurs., Dec. 14, 2017, 11:00 AM - 12:00 PM CST

- **Geosynthetics and Retaining Walls**

Thurs., Dec. 14, 2017, 12:30 - 2:30 PM CST

- **Slope Stability and Geosynthetics**

Fri., Dec. 15, 2017, 11:00 AM - 12:30 PM CST

- **Slope and Retaining Wall Failures, Fixes and Prevention**

Fri., Dec. 15, 2017, 1:00 - 2:30 PM CST

International Energy Conservation Code

- **International Energy Conservation Code, Part I**

Thurs., Dec. 21, 2017, 8:00 - 11:00 AM CST

- **International Energy Conservation Code, Part II**

Thurs., Dec. 21, 2017, 12:00 - 3:00 PM CST

Seismic Design and Construction

- **Seismology and Building Codes**

Wed., Dec. 27, 2017, 11:00 AM - 3:30 PM CST

- **Seismic Design of Building Structures**

Thurs., Dec. 28, 2017, 11:00 AM - 3:30 PM CST

The Distributed Battery Webinar Series

- **The Distributed Battery Webinar, Part I**

Thurs., Dec. 28, 2017, 11:00 AM - 2:15 PM CST

- **The Distributed Battery Webinar, Part II**

Fri., Dec. 29, 2017, 11:00 AM - 2:15 PM CST

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

Registration

Using Engineered Lumber and Timber Products

Fairfax, VA - Friday, January 26, 2018

How to Register		Registrant Information
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		Company/Firm: _____
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Phone: 715-835-5900		Additional Registrants:
Fax: 715-835-6066		Name: _____
		Occupation: _____
		Email: _____
		Phone: _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Name: _____
		Occupation: _____
		Email: _____
		Phone: _____
Complete the entire form. 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 - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

() **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

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