

Agenda

Presented by Scott Schiff

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 criteria

Design Values for Structural Engineered Lumber

Reference design values and adjustments

- Bending members
- Solid columns
- Combined loads
- Flitch beams
- Compression members
- Tension members
- 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

Structural Design

Software
Roof framing
Floor framing
Beams and joists

Engineered Lumber Design and Construction
Overland Park, KS - Thursday, December 13, 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 for bending members, compression members and columns.

Utilize engineered wood products, 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 roof and floor framing.



Engineered Lumber Design and Construction

Overland Park, KS - Thursday, December 13, 2018



Examine structural and non-structural engineered lumber products

Understand design values for structural engineered lumber

Learn about roof and floor framing

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

Explore structural composite lumber

Discuss connectors and fasteners

Continuing Education Credits

Professional Engineers

7.0 PDHs (HSW)

Architects

7.0 HSW PDHs/CE Hours

7.0 AIA HSW Learning Units

International Code Council

.7 CEUs (Building)

Contractors

Non-Credit Continuing Ed.



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Faculty

Scott Schiff *Civil Engineering professor at Kansas State University*

Mr. Schiff received his doctoral degree from the University of Illinois at Urbana-Champaign in 1988. After graduation, he was appointed as a visiting assistant professor at the University of Illinois where he taught classes and worked on three funded research projects. In August 1989, he joined the Civil Engineering faculty at Clemson University as an assistant professor of Civil Engineering and was promoted through the ranks to professor in 2003. In 2013, he co-founded *Imagine*, a College of Engineering and Science program to provide STEM outreach to middle and high school students throughout South Carolina. In 2014, he led the development of the Wood Utilization + Design Institute at Clemson University to foster collaborative research and public service across the Clemson campus and with other state institutions, industry organizations, and private industry. In January 2015, he “retired” from Clemson University with the title of emeritus professor of Civil Engineering to join Applied Technology Council (ATC) as director of projects and managed research related to structural engineering and hazard mitigation. In the summer of 2016, he decided to return to academia and taught part time at Kennesaw State University, before joining the Civil Engineering faculty at Kansas State University in December 2017 as a teaching professor.

Seminar Information

Hilton Garden Inn 5800 College Blvd. Overland Park, KS 66211 (913) 345-2661	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
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Tuition
\$279 for individual registration
\$259 for three or more simultaneous registrations.
Included with your registration: *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 (CDT), 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.

Additional Learning

- Webinar Series**
- Geothermal Heating and Cooling**
- **Thermodynamic Basics of Geothermal Systems**
Thurs., Nov. 1, 2018, 11:00 AM - 12:00 PM CDT
 - **Understanding Earth Loop Systems**
Thurs., Nov. 1, 2018, 12:30 - 2:00 PM CDT
 - **Choosing and Designing Geothermal Systems**
Fri., Nov. 2, 2018, 11:00 AM - 12:00 PM CDT
 - **Evaluating and Maintaining Geothermal Systems**
Fri., Nov. 2, 2018, 12:30 - 2:30 PM CDT
- Cogeneration System Principles and Practice**
- **Understanding the Benefits of Cogeneration**
Thurs., Nov. 8, 2018, 11:00 AM - 12:30 PM CST
 - **Laws, Regulations and Building Codes Impacting Cogeneration**
Thurs., Nov. 8, 2018, 1:00 PM - 2:30 PM CST
 - **Examining Cogeneration Technologies**
Fri., Nov. 9, 2018, 11:00 AM - 12:30 PM CST
 - **Moving to Cogeneration: Analysis, Modeling and Case Studies**
Fri., Nov. 9, 2018, 1:00 - 2:30 PM CST
- Shallow Foundation Design and Construction**
- **Evaluating Building Sites**
Wed., Nov. 14, 2018, 11:00 AM - 12:30 PM CST
 - **Shallow Foundation Design**
Wed., Nov. 14, 2018, 1:00 - 2:30 PM CST
 - **Special Considerations in Foundation Design and Construction**
Thurs., Nov. 15, 2018, 11:00 AM - 12:30 PM CST
 - **Soil Improvement and Foundation Diagnosis and Repair**
Thurs., Nov. 15, 2018, 1:00 - 2:30 PM CST
- Roadway Design**
- **Roadway Design**
Thurs., Nov. 29, 2018, 11:00 AM - 12:30 PM CST
 - **Roadway Design Process**
Thurs., Nov. 29, 2018, 1:00 - 2:00 PM CST
 - **Typical Roadway Sections and Alignment**
Fri., Nov. 30, 2018, 11:00 AM - 1:30 PM CST
 - **Intersections, Drainage and Pedestrian-Bicycle Facilities**
Fri., Nov. 30, 2018, 2:00 - 3:30 PM CST

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

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 HSW PDHs to professional engineers and architects in all states, except Florida architects. Educators and courses are not subject to preapproval in Kansas.

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

The International Code Council has approved this activity for .7 CEUs in the specialty area of Building.

This seminar provides a non-credit continuing education opportunity to contractors. It has not been approved by any state contractor licensing board for mandated 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 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.

Registration

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How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____
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	Address: _____
	City: _____ State: _____ Zip _____
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	Phone: _____
Fax: 715-835-6066	Additional Registrants:
	Name: _____
	Occupation: _____
	Email: _____
	Phone: _____
	Name: _____
	Occupation: _____
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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)

Checks: Make payable to HalfMoon Education Inc.

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