

Agenda

Presented by Alexander Charvat

Wood as a Raw Building Material

Wednesday, September 23, 2020

10:00 am - 1:30 pm CDT (including a 30-min. break)

Wood as a Raw Material

Where does it come from?
Harvesting
Lumber/tree species groups
Basic tree physiology and morphology
Wood defects
Wood swell/shrinkage potential
Strength of wood in various directions

Introduction to Mass Timber Construction

Friday, September 25, 2020

10:00 am - 1:30 pm CDT (including a 30-min. break)

Mass Timber

What is it
Major pros/cons
Types of mass timber
Nail laminated

- Design criteria

Cross laminated

- Design criteria

Dowel laminated

- Design criteria

Glued laminated

- Design criteria

Experiment showing simulated nailed, glued, doweled laminated beams using paint stir sticks

Structural Design Software

Finite element analysis
Manufacturer provided

Can't Attend? Order these Webinars as Self-Study Packages!

Recordings of these webinars are available for purchase. 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.

Wood as a Raw Building Material and Introduction to Mass Timber Construction

Online - Wednesday, September 23 and Friday, September 25, 2020

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HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Identify sources of lumber and species of wood that are used in construction projects.

Describe common wood defects and their consequences.

Discuss the causes and effects of wood shrinkage and swelling, and explore the strength of wood.

Explore the pros and cons of mass timber construction.

Discuss nail laminated, cross laminated, dowel laminated and glued laminated timber construction, and view an experiment demonstrating each type of lamination.



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HalfMoon Education Online Learning

Wood as a Raw Building Material

Wednesday, September 23, 2020 | 10:00 am - 1:30 pm CDT

Introduction to Mass Timber Construction

Friday, September 25, 2020 | 10:00 am - 1:30 pm CDT



Two Live Interactive Webinars

Identify tree species and lumber groups

Describe wood defects

Explore wood behavior and wood strength

Discuss pros and cons of mass timber construction

Examine design criteria for laminated timber members

Each Webinar Provides:

Professional Engineers
3.0 PDHs

Architects
3.0 HSW CE Hours

AIA
3.0 LU|HSW

International Code Council
.3 CEUs (Building)



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Faculty

Alexander Charvat *Professional Engineer at Alexander Structures, LLC*

Mr. Charvat is a professional engineer licensed in multiple states. He has worked as a forester in the Pacific Northwest, and he spent two years working at the United States’ Forest Service’s Forest Products Laboratory in Madison, Wisconsin, assisting with large research products for both engineered and natural wood. Mr. Charvat has engineered and designed hundreds of homes ranging from \$20,000 cabins to \$18 million ranches. He is the engineer of record for NAHB’s Log Home Log Grading Program, and he is also the engineer of record for over 30 threaded fasteners used in log home and residential construction, many found at big box stores. Mr. Charvat has hosted his own log cabin renovation show on DIY network called Cabin Rescue, has consulted on log cabin renovations featured on HGTV, and is the instructor for an internet-based class about building and buying a log home. He is the owner of Alexander Structures, Inc., based in Conifer, Colorado, which has been in business since 2002, www.alexanderstructures.com. Mr. Charvat holds a bachelor of science degree in Forest Science and a master of science degree in Agricultural Engineering—Structures, both from the University of Wisconsin. He also competed on History Channel’s TV reality series Top Shot for two seasons, including the final all-star season.

Webinar Information

Wood as a Raw Building Material

Wednesday, September 23, 2020
10:00 am - 1:30 pm CDT (including a 30-min. break)

Introduction to Mass Timber Construction

Friday, September 25, 2020
10:00 am - 1:30 pm CDT (including a 30-min. break)
(please log into the webinar 15 - 30 minutes before start time)

Tuition

\$169 when you register for one webinar
\$299 when you register for both webinars
Included with your registration: PDF seminar manual.

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

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit www.gotowebinar.com.

Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

Additional Learning

Healthy HVAC Design Primer for Residential Building Professionals

- Wed., Sept. 9, 2020 | 8:30 am - 4:20 pm CDT

International Existing Building Code

- Wed., Sept. 9, 2020 | 11:00 am - 2:30 pm CDT
- Thurs., Sept. 10, 2020 | 11:00 am - 2:30 pm CDT

Basics of Structural Steel

- Fri., Sept. 11, 2020 | 9:00 am - 5:00 pm CDT

2018 International Residential Code: Structural Design

- Fri., Sept. 11, 2020 | 11:00 am - 3:30 pm CDT

Current Issues in Sustainable Site Design

- Mon., Sept. 14, 2020 | 11:00 am - 2:15 pm CDT
- Tues. Sept. 15, 2020 | 11:00 am - 2:15 pm CDT

Small Commercial Solar Photovoltaic Energy Systems

- Tues., Sept. 15, 2020 | 8:30 am - 3:50 pm CDT

Continuing Education Credit Information

Each webinar offers 3.0 PDHs to professional engineers and 3.0 HSW continuing education hours to architects in all states.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina (S-0130), and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved each webinar for 3.0 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .3 CEUs in the specialty area of Building (Preferred Provider No. 1232).

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

Can’t Attend? Order these Webinars as Self-Study Packages!

Recordings of these webinars are available for purchase. 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.

Advanced HEC-RAS Modeling

- Wed., Sept. 16, 2020 | 8:30 am - 12:30 pm CDT
- Thurs. Sept. 17, 2020 | 8:30 am - 12:00 pm CDT

Erosion and Sediment Control

- Wed., Sept. 16, 2020 | 11:00 am - 2:00 pm CDT
- Thurs., Sept. 17, 2020, 11:00 am - 2:00 pm CDT

International Building Code

- Wed., Sept. 16, 2020 | 10:00 am - 2:00 pm CDT
- Thurs., Sept. 17, 2020 | 10:00 am - 2:00 pm CDT

Complying with Fire Protection and Building Codes

- Mon., Sept. 21, 2020 | 8:00 - 11:35 am CDT
- Tues., Sept. 22, 2020 | 8:00 am - 12:05 pm CDT

Designing for Accessibility under ADA Standards and IBC

- Tues., Sept. 22, 2020 | 8:30 am - 4:30 pm CDT

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

Registration

Wood as a Raw Building Material and Introduction to Mass Timber Construction

How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____	
Fax: 715-835-6066	Code:	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.
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		
Complete the entire form. Attach duplicates if necessary.		
Tuition () I will be attending both webinars sections for \$299.00. Three or more registrants from the same company registering at the same time - \$199.00 each () I will only be attending the following webinar for \$169 per registrant: () Wood as a Raw Building Material - Wednesday, September 23, 2020 () Introduction to Mass Timber Construction - Friday, September 25, 2020 <i>Purchase either of these webinars as self-study packages.</i> <i>See course listings online for more information</i> Checks: Make payable to HalfMoon Education Inc. Credit Card: <i>Mastercard, Visa, American Express, or Discover</i> Credit Card Number: _____ Expiration Date: _____ CVV2 Code: _____ Cardholder Name: _____ Billing Address: _____ City: _____ State: _____ Zip: _____ Signature: _____ Email: _____		
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