

Agenda

Presented by Jeffrey R. Hershberger

Working with Timber and the History of Timber Framing

- Development of timber frame buildings and techniques
- Typical wood species and their comparable design characteristics
- Harvesting and processing timber
- Timber design problems and solutions: shrinking, twisting, warping and bowing

Structural Frame Design

- Codes and standards for timber framing
- Structural members and framework
- Regional design concerns and code requirements
- Difference between bent, wall and truss framing
- Primary and secondary frame members

Roof Framing and Truss Design

- Common rafter vs truss design
- Truss mechanics and anatomy
- Typical heavy timber truss designs and characteristics

Joinery Design

- Mortise and tenon joints
- Principal member joinery examples
- Secondary member joinery examples
- Tension joinery
- Pegged joints vs mechanically aided joinery
- Knee bracing

Putting it All Together

- Foundations for timber framed buildings
- Raising procedures and concerns
- Enclosures and lateral resistance systems
- Open timber frames and pavilions

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Residential and Small Commercial Timber Frame Design and Construction

Live, Interactive Webinar - Thursday, May 26, 2022

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PO Box 278
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Learning Objectives

You'll be able to:

Identify codes and standards for timber framing, and describe regional design concerns.

Differentiate between bent, wall and truss framing, and identify primary and secondary frame members.

Describe features of common rafter roof framing versus the use of trusses, and review typical truss designs.

Explore methods of joinery for principal member joinery, bay member joinery and tension joinery.

Consider foundation types for timber-framed buildings, and address procedures for raising timber structures.



HalfMoon Education Live Webinars

Residential and Small Commercial Timber Frame Design and Construction

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Explore the development of timber frame buildings and techniques

Understand codes and standards for timber framing

Examine truss mechanics and anatomy

Get tips on structural framing and roof framing

Discuss dovetail, pegged, and tension joints, and others

Learn about foundation systems, and get tips on raising frames

Continuing Education Credits

Professional Engineers
6.5 PDHs

International Code Council
.65 CEUs (Building)

Architects
6.5 HSW CE Hours
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Faculty

Jeffrey R. Hershberger *Founder/Managing Owner of Slick Timberworks*
Mr. Hershberger began his construction and engineering career when he found a job as a timberframe carpenter after returning east broke and jobless from a winter chasing snow in Jackson Hole. This job of convenience led to over a decade of making sawdust, first as joiner than as itinerate timberframer and small business owner. This career path ignited a passion for woodworking and the pursuit of the historic craft, one initially fostered by climbing around the bank barn of his childhood home in Bucks County, Pennsylvania. A recession and a baby boy led to the decision to return to school to study Civil Engineering, broadening his understanding of structural analysis and material science.

Upon graduating he headed back to the building industry, first as a subcontracted drafter and engineering intern, then as a structural engineering project manager. After a handful of years of consulting engineering work for log and timber manufactures throughout North America the draw to return back to the shop floor became too much to ignore, and lead to the creation of Slick Timberworks in the summer of 2020 in an effort to create a bit more flexibility between structural engineering consulting and timber fabrication. Mr. Hershberger relies heavily on his practical experience while working with clients to produce structurally efficient and elegant designs, while remaining focused on the initial priorities of the project. He has earned a B.S. degree in Geology from Bates College and a B.S. degree in Civil Engineering from the University of North Dakota.

Webinar Information

Log into Webinar 8:00 - 8:30 am CDT	Break 11:45 am - 12:45 pm CDT
Morning Session 8:30 - 11:45 am CDT	Afternoon Session 12:45 - 4:30 pm CDT

Tuition
\$319 for individual registration
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How to Register

- Visit us online at www.halfmoonseminars.org
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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.

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Additional Learning

- IBC Significant Changes: Administration and Building Planning**
- Fri, April 29, 2022 | 11:00 am - 3:30 pm CDT
- Construction Cost Estimating and Value Engineering**
- Fri, April 29, 2022 | 8:30 am - 3:20 pm CDT
- HVAC Primer for Design Professionals**
- Tues, May 3, 2022 | 8:30 am - 4:30 pm CDT
- 2020 National Electrical Code Update**
- Fri, May 6, 2022 | 8:30 am - 4:00 pm CDT
- IBC Significant Changes: Fire Protection and Means of Egress**
- Fri, May 6, 2022 | 11:00 am - 3:30 pm CDT
- Design Considerations and Mixed Occupancy Options for Speculative Buildings**
- Tues, May 10, 2022 | 9:00 am - 3:40 pm CDT
- Structural Design Loads under the ASCE 7-22 Standard**
- Thurs, May 12, 2022 | 9:00 am - 4:30 pm
- IBC Significant Changes: Accessibility, Systems, and Materials**
- Fri, May 13, 2022 | 11:00 am - 3:30 pm CDT
- Revit Basics of Building Modeling**
- Fri, May 13, 2022 | 9:00 am - 1:00 pm CDT
- Fri, May 20, 2022 | 9:00 am - 1:00 pm CDT
- International Existing Building Code 2021**
- Tues, May 17, 2022 | 9:00 am - 4:30 pm
- Site Design: Grading and Drainage**
- Fri, May 20, 2022 | 8:30 am - 4:30 pm CDT
- How to Design a Stormwater Management System for Residential Sites**
- Tues, May 24, 2022 | 2:00 - 4:00 pm CDT
- Soil Mechanics, Bearing Capacity and Slope Stabilization**
- Wed, May 25, 2022 | 8:30 am - 4:30 pm CDT
- For more information and other online learning opportunities visit:
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Continuing Education Credit Information
This webinar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to licensed architects in all states.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU | HSWs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

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The International Code Council has approved this event for .65 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

Added Value:
Enhance your learning - a recording of this webinar will be available for attendees to stream online for two weeks after the program date.
(Must attend live webinar to earn live webinar credits)

Registration

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