

Agenda

Presented by Jeffrey R. Hershberger, E.I.

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 affected 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
- Bay 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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Timber Frame Design and Construction

Live, Interactive Webinar - Monday, February 1, 2021



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Learning Objectives

You'll be able to:

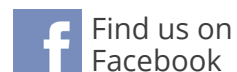
Identify codes and standards for timber framing, and describe regional design concerns.

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.



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HalfMoon Education Online Learning

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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 raising frames.

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CE Hours

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6.5 LU | HSW

International Code Council
.65 CEUs (Building)



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Jeffrey R. Hershberger, E.I. *Slick Timberworks*
Mr. Hershberger began his construction and engineering career when he found a job as a timber frame carpenter after returning to the east coast, broke and jobless, from a winter chasing snow in Jackson Hole, Wyoming. This job of convenience led to over a decade of making sawdust, first as joiner, then as itinerate timber framer and small business owner. This career path ignited a passion for the woodworking, and the pursuit of this historic craft. His interest in timber building was also driving by his early experience 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 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. 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 9:00 - 9:30 am CST	Break 12:45 pm - 1:45 pm CST
Morning Session 9:30 am - 12:45 CST	Afternoon Session 1:45 - 5:30 pm CST

Tuition
\$289 for individual registration
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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

Commercial Provisions of the IECC
- Thurs., Jan. 14, 2021 | 11:00 am - 3:30 pm CST
- Fri., Jan. 15, 2021 | 11:00 am - 2:00 pm CST

Slab-on-Grade Concrete and Pavement for Private Facilities
- Tues., Jan. 19, 2021 | 11:00 am - 2:45 pm CST
- Wed., Jan. 20, 2021 | 11:00 am - 2:45 pm CST

High-Performance Building Envelopes: Designing for Energy Efficiency and Durability
- Wed., Jan. 20, 2021 | 11:00 am - 2:45 pm CST
- Thurs., Jan. 21, 2021 | 11:00 am - 2:45 pm CST

Engineered Lumber Design and Construction
- Fri., Jan. 22, 2021 | 8:30 am - 5:00 pm CST

Structural Design Loads under the ASCE 7 Standard
- Fri., Jan. 22, 2021 | 8:30 am - 5:00 pm CST

Project Management Fundamentals for Engineers
- Tues., Jan. 26, 2021 | 8:30 am - 4:00 pm CST

Continuing Education Credit Information
This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects licensed in all states.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 5554646), Indiana (License No. CE21655559), Maryland, New Jersey (Approval No. 24GP5555655), North Carolina (S-5135), 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 this course for 6.5 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

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

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (85%) on the quiz that follows the presentation (multiple attempts allowed).

International Building Code 2021
- Tues., Jan. 26, 2021 | 10:00 am - 2:30 pm CST
- Wed., Jan. 27, 2021 | 10:00 am - 1:30 pm CST

Designing Interiors for Human Wellness
- Thurs., Jan. 28, 2021 | 11:00 am - 3:05 pm CST
- Fri., Jan. 29, 2021 | 11:00 am - 1:25 pm CST

Site Design
- Fri., Jan. 29, 2021 | 8:00 am - 4:00 pm CST

National Electrical Code 2020
- Fri., January 29, 2021 | 8:00 am - 4:00 pm CST

Site Design
- Fri., January 29, 2021 | 8:00 am - 4:00 pm CST

Effective Stormwater Infiltration
- Tues., Feb. 2, 2021 | 8:30 am - 4:45 pm CST

Drones in Construction
- Tues., Feb. 2, 2021 | 10:00 am - 4:50 pm CST

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Registration

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