

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 - Tuesday, June 11, 2024

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PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

- Discuss** wood species and their design characteristics.
- Explore** the development of timber frame building techniques.
- Examine** codes and standards for timber framing.
- Compare** rafter framing and truss design.
- Consider** joinery options, including mortise and tenon joints, pegged joints and mechanically aided joinery.



HalfMoon Education Inc.,
Your LIVE Education Leader Presents
**Residential and Small
Commercial Timber Frame
Design and Construction**

Live, Interactive Webinar - Tuesday, June 11, 2024



- Discuss** the development of timber frame building techniques
- Explore** structural frame design of timber buildings

- Learn** about roof framing and truss design
- Discuss** joinery options, including mortise and tenon joints
- Consider** foundation options and procedures for raising timber frames

Continuing Education Credits

- Professional Engineers**
6.5 PDHs
- Architects**
6.5 HSW CE Hours
6.5 AIA LU | HSW

- International Code Council**
.65 CEUs (Building)

AIA
Continuing
Education
Provider



Webinar Information

Online - Tuesday, June 11, 2024

Log into Webinar 8:30 - 9:00 am CDT	Break 12:15 - 12:45 pm CDT
Morning Session 9:00 am - 12:15 pm CDT	Afternoon Session 12:45 - 4:30 pm CDT

Tuition
\$339 for individual registration.
\$309 for two or more registrants from the same company at the same time.

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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 timber frame 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 a joiner and then as an itinerate timber framer and small business owner. This career path ignited a passion for woodworking and the pursuit of the historic craft, a passion that was 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 Mr. Hershberger 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 manufacturers throughout North America, the draw to return to the shop floor became too much to ignore and led to the creation of Slick Timberworks in the summer of 2020. The firm is 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.

Additional Learning

Hydronic and Radiant Heating Systems for Residential and Light Commercial Buildings
- Tuesday, May 21, 2024 | 9:00 am - 4:00 pm CDT

Developments in Fenestration
- Wednesday, May 22, 2024 | 9:00 am - 12:20 pm CDT

Seismic Design and Construction
- Thursday, May 23, 2024 | 8:30 am - 5:00 pm CDT

Floodplain Modeling, Mapping and Regulation
- Wednesday, May 29, 2024 | 10:00 am - 2:00 pm CDT
- Thursday, May 30, 2024 | 10:00 am - 2:00 pm CDT

Understanding Subsidence Caused by Groundwater Withdrawal
- Wednesday, May 29, 2024 | 12:00 - 2:00 pm CDT

Deep Dive into Concrete and Rigid Pavements for Streets, Roads and Parking Areas
- Thursday, May 30, 2024 | 2:00 - 4:00 pm CDT

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers and 6.5 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). 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 HSW LUs(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).

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).

On-Demand Credits
The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
6.5 HSW LUs (AIA)

Mississippi River Conference: Environmental, Management and Planning Considerations
- Thursday, May 30, 2024 | 9:00 am - 4:00 pm CDT

Using Drones in Construction
- Thursday, May 30, 2024 | 8:30 am - 4:00 pm CDT

Advanced HEC-RAS Modeling
- Friday, May 31, 2024 | 8:30 am - 5:30 pm CDT

Interior Acoustical Design and Construction
- Friday, May 31, 2024 | 8:30 am - 4:30 pm CDT

Preventing and Addressing Construction Defects and Failures
- Friday, May 31, 2024 | 8:30 am - 5:00 pm CDT

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