Presentation by Jeffery 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 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

Learning Objectives

You’ll be able to:
- Identify codes and standards for timber framing, and discuss regional design concerns.
- Examine wood species that are typically used in timber framing and describe their characteristics.
- Distinguish between bent, wall and truss framing.
- Differentiate between common rafter and truss design.
- Describe joinery designs, including mortise and tenon joints, and discuss principal member joinery and tension joinery.
- Get tips on foundation design, and learn the process for raising timber frame buildings.

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!
Audio recordings of this seminar are available for purchase starting at $279. 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.
Faculty

Jeffery Hershberger, E.I., Tamarack Grove Engineering

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 the historic craft of timber framing, which he was originally introduced to as a child climbing around the barn barn of his 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 eventually joining Tamarack Grove Engineering as a structural engineering project manager. He currently manages a team of engineers that work primarily within the heavy timber and log construction industry. Mr. Hershberger relies heavily on his practical experience as a builder and small business owner when working with clients to produce structurally efficient and elegant designs.

Seminar Information

Hyatt Place Chicago - Lombard/Oak Brook
2340 South Fountain Square Drive
Lombard, IL 60148
(630) 932-6501

Registration Information

Registration
8:00 - 8:30 am
Lunch (On your own)
11:45 am - 12:45 pm
Morning Session
8:30 - 11:45 am
Afternoon Session
12:45 - 4:30 pm

Tuition
$299 for individual registration
$279 for three or more simultaneous registrations.

Additional Learning

Webinar Series
Foundation Damage and Repair
• Design & Geo-Environmental Leading,
Building Codes, Soil Properties
Wed., March 4, 2020, 11:00 AM - 12:30 PM CDT
• Foundation Slab-Wall Design and Construction
Wed., March 4, 2020, 1:00 - 2:30 PM CDT
• Evaluation of Foundation Slab Damage and Repair Alternatives
Thurs., March 5, 2020, 11:00 AM - 12:30 PM CDT
• Evaluation of Foundation Wall Damage and Repair Alternatives
Thurs., March 5, 2020, 1:00 - 2:30 PM CDT

Solar Photovoltaic
Project Design and Development
• Solar Photovoltaic Project Design and Development, Part I
Wed., March 4, 2020, 11:00 AM - 2:15 PM CDT
• Solar Photovoltaic Project Design and Development, Part II
Thurs., March 5, 2020, 11:00 AM - 2:55 PM CDT

International Residential Code
• Development and Enforcement of International Residential Code
Thurs., March 12, 2020, 11:00 AM - 12:30 PM CDT
• IRC Building Planning and Shell Construction, Part I
Thurs., March 12, 2020, 1:00 - 2:30 PM CDT
• IRC Building Planning and Shell Construction, Part II
Fri., March 13, 2020, 11:00 AM - 12:30 PM CDT
• IRC Energy Efficiency and Building Systems
Fri., March 13, 2020, 1:00 - 3:00 PM CDT

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

Continuing Education Credit Information
This seminar is open to the public and offers 6.5 PDHs to professional engineers, 6.5 continuing education credit hours to structural engineers, and 6.5 HSW continuing education hours to architects in all states. Educators and courses are not subject to approval from the Pennsylvania State Board of Architects and Engineers. The Continuing Education Board for Engineers and Geologists of Wisconsin also approves this event for 6.5 CEUs. The American Institute of Architects has approved this event for 6.5 HSW Learning Units (Sponsor No. J885). Visit www.halfmooneseminars.org for complete AIA/CEES course information under this seminar listing. Only full attendance can be reported toward AIA CEUs.

Tuition
$299.00 for individual registrant
$279.00 for three or more registrants from the same company registering at the same time - $279.00 each.

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Registration

Timber Frame Design and Construction
Lombard, IL - Thursday, April 30, 2020

How to Register

Online: www.halfmooneseminars.org
Phone: 715-835-5900
Fax: 715-835-6066
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278

Complete the entire form. Attach duplicates if necessary.

I am not attending. Please send me the self-study package: Downloadable MP3 Audio/PDF Manual for $279.00
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USB/Manual Package $299.00
(S&H included. Please allow five weeks from seminar date for delivery)

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