

HalfMoon Education Live Continuing Education Webinars

# Residential and Small Commercial Timber Frame Design and Construction

**Online - Friday, June 16, 2023 | 8:30 am - 4:30 pm CDT**

**Credits:**

Professional Engineers: 6.5 PDHs

Architects: 6.5 HSW CE Hours      AIA: 6.5 LU|HSW

International Code Council: .65 CEUs (Building)

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### **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

### **Presented by Jeffry 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. Mr. Hershberger's original interest in timber was 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.

After a handful of years of consulting engineering work for log and timber manufacturers 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. 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.

### **Tuition**

**\$319** for individual registration

**\$289** for two or more registrants from the same company at the same time.

**Included with your registration:** PDF seminar manual.

### **Can't Attend? Order the Webinar as an On-Demand Package!**

Recordings of this webinar are available for purchase. See details online 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.

## **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 No. 0004647), 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. I232).

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 may not be eligible for the same credits as the live presentation; 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)

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