

Agenda

Presented by Vincent F. Fratinardo, P.E., S.E., RRC

Structural Design for Wood Construction

Development of the National Design Specification for Wood Construction
Development of International Building Code
Code compliance and enforcement

Design Values, Requirements and Equations

Bending members
Compression members
Columns
Tension members
Combined loads

Structural Use of Sawn Lumber and Timber

Sawn lumber applications and design values
Timber poles and piles applications and design values

Structural Glued Laminated Timber

Types of products
Applications and design values

Prefabricated Wood I-Joists and Structural Composite Lumber

Types of products
Applications and design values

Prefabricated Wood Trusses and Wood Structural Panels

Applications and design values
Specification and installation

Designing Connections

Fire Protection Design

Can't Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Structural Design for Wood Construction
Indianapolis, IN - Friday, September 21, 2018

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Halfmoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Examine the National Design Specification for Wood Construction, and discuss international Building Code compliance and enforcement.

Review design values, requirements and equations for bending, compression, and tension members.

Explore the structural use of sawn lumber, timber and glued laminated timber.

Get tips on using prefabricated wood I-joists, structural composite lumber, prefabricated wood trusses and wood structural panels.

Discuss fire protection design.



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Explore the National Design Specification for Wood Construction and the International Building Code

Examine design values, requirements and equations

Discuss structural use of sawn lumber, timber and glued-laminated timber

Assess prefabricated wood I-joists, structural composite lumber, wood trusses, and wood structural panels

Get tips on designing connections

Continuing Education Credits

Professional Engineers
7.0 Continuing Ed. Hours

Architects
7.0 HSW Contact Hours
7.0 AIA HSW Learning Units

International Code Council
.7 CEUs (Building)

Contractors
Non-Credit Continuing Ed.



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Vincent F. Fratinardo, P.E., S.E., RRC
Vice President at Thornton Tomasetti in the Greater Chicago Area

Mr. Fratinardo is a civil/structural engineer and roof consultant. His 20 years of experience includes civil and structural engineering analysis, design, construction administration, field investigation, and project management, and 11 years of experience specific to forensic engineering and the investigation and analysis of building damage and failures. Mr. Fratinardo has designed numerous new buildings, building additions, building renovations, and mechanical platforms and supports. He has designed and analyzed roof, wall and floor framing systems utilizing steel, concrete, masonry, and wood construction. Mr. Fratinardo has vast expertise in commercial, industrial, agricultural, municipal, educational and residential building damage investigations, including on-site investigations after 24 different tornado events, and Hurricanes Irene, Sandy, and Matthew. He has legal experience in depositions, arbitration hearings and trials. He has prepared and performed numerous continuing education presentations, including on an array of topics in forensic engineering, structural engineering and building codes for HalfMoon Education Inc., in multiple states since 2014. Mr. Fratinardo graduated from Michigan State University with a Bachelor of Science degree in Civil Engineering, and he also holds a Master of Engineering degree in Civil Engineering from Texas A&M University. He is a registered professional engineer in multiple states and a licensed structural engineer in Illinois.

Here’s what past attendees had to say about the program and presenter Vincent Fratinardo:

“As a non-structural engineer, it helped me expand my knowledge of other areas of practice.” – *Civil Engineer*

“Presenter has great voice and nice energy. Held my interest.” – *Architect*

“Great presenter.” – *Civil Engineer*

“Great job as usual.” – *Architect*

Seminar Information

Hilton Garden Inn Indianapolis Northwest
6930 Intech Blvd.
Indianapolis, IN 46278
(317) 288-6060

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 - 5:00 pm

Tuition
\$279 for individual registration
\$259 for three or more simultaneous registrations.
Each registration includes a complementary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar (CDT), and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the CD/manual package. You may also send another person to take your place.



Webinar Series

Handling Ethical Issues in Professional Engineering Practice
Fri., Aug. 3, 2018, 11:00 AM - 12:00 PM CDT

Technical Writing

- **Technical Writing Basics**
Thurs., Aug. 9, 2018, 12:00 PM - 2:00 PM CDT
- **Planning Documents**
Thurs., Aug. 9, 2018, 2:30 - 4:30 PM CDT
- **Writing Documents**
Fri., Aug. 10, 2018, 12:00 PM - 2:00 PM CDT
- **Revising and Editing Documents**
Fri., Aug. 10, 2018, 2:30 - 4:30 PM CDT

Foundation Damage and Repair

- **Structure Loads, Soil Mechanics, Bearing Capacity and Geo-Environmental Hazards**
Wed., Aug. 15, 2018, 11:00 AM - 12:30 PM CDT
- **Foundation-Wall Design and Construction**
Wed., Aug. 15, 2018, 1:00 - 2:30 PM CDT
- **Assessment of Foundation-Slab Damage & Repair Alternatives**
Thurs., Aug. 16, 2018, 11:00 AM - 12:30 PM CDT
- **Assessment of Foundation-Retaining Wall Damage & Repair Alternatives**
Thurs., Aug. 16, 2018, 1:00 - 2:30 PM CDT

Retaining Structures

- **Earth Pressures and Surcharges**
Thurs., Aug. 23, 2018, 11:00 AM - 12:30 PM CDT
- **Cantilever & Apparent Earth Pressures**
Thurs., Aug. 23, 2018, 1:00 - 2:30 PM CDT
- **Apparent Earth Pressures**
Fri., Aug. 24, 2018, 11:00 AM - 12:30 PM CDT

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

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 continuing education hours/PDHs to professional engineers and 7.0 HSW contact hours to architects in all states, except Florida architects. HalfMoon Education is an approved continuing education provider for Indiana engineers. Architect continuing education providers and courses are not subject to preapproval in Indiana.

The American Institute of Architects has approved this course for 7.0 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA.

HalfMoon Education is an approved engineer continuing education provider in Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved architect continuing education sponsor in New York.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building.

This seminar offers a non-credit continuing education opportunity to construction contracts. It has not been approved by any contractor licensing board for continuing education credit.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

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Registration

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How to Register	
Online: www.halfmoonseminars.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.	
Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.	

Tuition () I will be attending the live seminar. Single Registrant - \$279.00 . Three or more registrants from the same company registering at the same time - \$259.00 each. () I am not attending. Please send me the CD manual package for \$289.00 . (S&H included. Please allow five weeks from seminar date for delivery)
Checks: Make payable to HalfMoon Education Inc.
Credit Card: <i>Mastercard, Visa, American Express, or Discover</i>
Credit Card Number: _____
Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
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