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

Structural Design for Wood Construction
Lansing, MI - Wednesday, August 8, 2018

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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.

Structural Design for Wood Construction

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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 Continuing Ed. Hours
7.0 AIA HSW Learning Units

International Code Council
.7 CEUs (Building)

Contractors
Non-Credit Continuing Ed.

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Faculty

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

Mr. Fratinardo is a civil/structural engineer. He has an extensive engineering and investigation background in warehouse facilities, retail buildings, churches, schools, office buildings, hospitals, condominiums and residential single family homes. His 18 years of experience includes civil and structural engineering analysis, design, construction administration, field investigation, and project management. 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 and residential building damage investigations. He has legal experience in depositions, arbitration hearings and trials, and he has prepared and performed numerous continuing education presentations. 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.

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

"Great presenter." — *Civil Engineer*

"Great job as usual." — *Architect*

"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*

Additional Learning

Webinar Series

Pedestrians and Bicycle Transport Planning

- **Introduction to Current Conditions and Trends in Biking and Walking**
  Thurs., June 21, 2018, 11:00 AM - 12:30 PM CDT
- **Engineering and Infrastructure: Design for Walkability and Bikeability**
  Thurs., June 21, 2018, 1:00 - 2:30 PM CDT
- **Developing a Walking and Biking Plan, Part I**
  Fri., June 22, 2018, 11:00 AM - 12:30 PM CDT
- **Developing a Walking and Biking Plan, Part II**
  Fri., June 22, 2018, 1:00 - 2:30 PM CDT

AutoCAD 3D

- **Using Key Commands and Tools**
  Part I: Wed., July 11, 2018, 11:00 AM - 2:15 PM CDT
  Part II: Thurs., July 12, 2018, 11:00 AM - 2:15 PM CDT
- **Building a Solid Model**
  Part I: Wed., July 18, 2018, 11:00 AM - 2:15 PM CDT
  Part II: Thurs., July 19, 2018, 11:00 AM - 2:15 PM CDT

Structural Forensic Engineering

- **Introduction to the forensic Engineering Process**
  Thurs., June 28, 2018, 11:00 AM - 1:00 PM CDT
- **Causes and Failures and the Forensic Engineering Report**
  Thurs., June 28, 2018, 1:30 - 3:30 PM CDT
- **Forensic Examination of Structures and Use in Litigation**
  Fri., June 29, 2018, 11:00 AM - 1:00 PM CDT

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development Part 1**
  Thurs., July 5, 2018, 11:00 AM - 2:15 PM CDT
- **Solar Photovoltaic Project Design and Development Part 2**
  Fri., July 6, 2018, 11:00 AM - 2:15 PM CDT

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

Seminar Information

Marriott at University Place
300 Michigan Agricultural College Avenue
Lansing, MI 48823
(517) 337-4440

Registration
8:00 - 8:30 am

Morning Session
8:30 - 11:45 am

Lunch (On your own)
11:45 am - 12:45 pm

Afternoon Session
12:45 - 5:00 pm

Tuition

$279 for individual registration
$259 for three or more simultaneous registrations.
Each registration includes a complimentary 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, 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.

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 continuing education hours to professional engineers and 7.0 HSW continuing education hours to architects in all states, except Florida architects. Educators and courses are not subject to pre-approval in Michigan.

This course has been approved by the American Institute of Architects for 7.0 HSW Learning Units (Provider No. J885). Only full attendance can be reported to the AIA/CES.

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

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

This seminar offers contractors a non-credit continuing education opportunity, but it has not been submitted to any state contractor licensing entity for continuing education approval

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.

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

A full recording of this seminar is available for $289, which includes shipping and handling. This learning method does not qualify for the continuing education requirements of Ohio engineers, AIA, BPI, ICC or BPI members. No contractor credit available. Please allow five weeks from the seminar date for delivery.

Registration

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How to Register

Online:
www.halfmoonseminars.org

Phone:
715-835-5900

Fax:
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PO Box 278, Altoona, WI
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Complete the entire form. Attach duplicates if necessary.

Registrant Information

Name: _____
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Additional Registrants:

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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.

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