

Agenda

Presented by: Casey Hemmatyar

Examining the Role of Forensic Engineering

- Causes and consequences of structural failures
- Importance of good design
- Impact of codes and standards
- Legal and economic impacts of failures
- Results and consequences of forensic engineering

Understanding the Forensic Engineering Process

- Documenting the failure
- Conducting investigation and research
- Test protocols and tests
- Determining causation and responsibility
- Learning from failure

Preparing the Forensic Engineering Report

- Identifying the report's purpose and its audience
- Examining content
- Organizing the report
- Evaluating sample reports

Understanding Causes of Structural Failures

- Lessons learned from historic failures
- Design errors
- Defective construction
- Material deficiencies
- Excessive loadings
- Deterioration and degradation

Forensic Examination of Structures

- Investigation of steel structures
- Investigation of wood structures
- Investigation of concrete structures
- Investigation of masonry and building facades
- Load testing and instrumentation of existing structure

Can't Attend? Order the Manual and the 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.

Structural Forensic Engineering

San Antonio, TX - Tuesday, April 21, 2020

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PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Review the impact of codes and standards on structures.

Determine the legal and economic consequences of structural failures.

Describe the forensic engineering process, including investigation, research and determination of causality.

Identify the most common causes of structural failures, including design errors, defective construction, material deficiencies, excessive loading, and deterioration.

Identify appropriate procedures for investigating the condition of steel, wood, concrete and masonry structures.



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Understand the role of forensic engineering

Identify the contents of forensic engineering reports

Examine the causes of structural failures

Discuss tests and test protocols

Learn lessons from historic failures

Explore the importance of good design

Continuing Education Credits

Professional Engineers

6.0 PDHs

Contractors

Non-Credit Continuing Ed.

Architects

6.0 HSW CE/PHs/CE Hours

6.0 AIA LU|HSW



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Casey Hemmatyar
President, Pacific Structural & Forensic Engineers Group (PSFEG)

As a forensic, structural and civil engineer and expert consultant with over three decades of experience, Mr. Hemmatyar has provided extensive services for defendants and plaintiff attorneys on construction litigation matters in single and class-action lawsuits at both the state and federal levels. His understanding of core legal concepts has enabled him to effectively assist his attorney clients. Mr. Hemmatyar brings diversified experience in structural and civil engineering design and in forensic engineering, investigation and evaluation. He also conducts research and has assisted in development of building codes and standards, and has supervised construction of domestic and international projects. Mr. Hemmatyar’s experience includes specialized structures and new buildings as well as modifications, alterations, seismic/ hurricane retrofits and upgrades to existing structures. He has provided failure analysis, expert consultation, structural forensic investigation and damage assessment services for many litigation and insurance-related matters. Mr. Hemmatyar actively presents continuing education lectures to audiences of engineers, architects and contractors on topics of structural and forensic engineering throughout the United States. He has been the principal structural engineer on projects for clients such as NASA and several other high-profile agencies. Currently, Mr. Hemmatyar directs PSFEG, and has served as director for SEAOSC in 2011-2013. He has been interviewed by public media including H2 History Channel (episode: “Collapse of Ancient Structures”) and Reuters (Mexico City school collapse).

Here’s what past attendees had to say about the program and presenter Casey Hemmatyar:

“Real world case studies helpul.” – *Engineer*
“Explained concepts well.” – *Architect* “Well organized.” – *Engineer*

Seminar Information

Norris Conference Center
618 NW Loop 410 Ste 207
San Antonio, TX 78216
(210) 738-0040

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

Included with your registration: *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 self-study package. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open to the public. It offers 6.0 PDHs to professional engineers in all states. Educators and courses are not subject to preapproval in Texas.

This course offers 6.0 HSW CEPHs/continuing education hours to architects in all states. Educators and courses are not subject to preapproval in Texas.

The American Institute of Architects Continuing Education System has approved this course for 6.0 LU|HSW (Sponsor No. J885). Visit www.halfmoonseminars.org for complete AIA information under this course listing. Only full attendance is reportable to the AIA/CES.

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

This course offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any state contractor licensing entity.

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.

Additional Learning

Webinar Series

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

- International Residential Code**
- **Development and Enforcement of International Residential Code**
Thurs., March 12, 2020, 11:00 AM - 12:00 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

- Erosion and Sediment Control**
- **Erosion and Sediment Control Requirements and Practices**
Thurs., March 12, 2020, 12:30 - 2:00 PM CDT
 - **Selection of Erosion Control Practices and Best Practices**
Thurs., March 19, 2020, 12:30 - 2:00 PM CDT
 - **Small Channels, Control Measure Estimating and Pollution Prevention Plans**
Thurs., March 26, 2020, 12:30 - 2:00 PM CDT
 - **Stormwater Management Inspection, Maintenance and Case Studies**
Thurs., April 2, 2020, 12:30 - 2:00 PM CDT

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

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Registration

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How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____	
Fax: 715-835-6066	Code:	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		
Complete the entire form. Attach duplicates if necessary.		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 - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$279.00** each.
() **I am not attending.** Please send me the self-study package:
☐ Downloadable MP3 Audio/PDF Manual for **\$279.00**.
☐ CD/Manual Package for **\$299.00**. ☐ USB/Manual Package **\$299.00**.
(S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.
Credit Card: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____
Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
Billing Address: _____
City: _____ State: _____ Zip: _____
Signature: _____
Email: _____