

Agenda

Presented by Michael Drerup, P.E., F.ASCE

Structural Forensic Engineering Day One

Tuesday, June 15, 2021 | 10:00 am - 1:45 pm CDT (including two 15-min. breaks)

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

Structural Forensic Engineering Day Two

Wednesday, June 16, 2021 | 10:00 am - 2:15 pm CDT (including two 15-min. breaks)

Understanding Causes of Structural Failures

- Material deficiencies
- Design errors
- Construction errors
- 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 structures

Using Forensic Engineering Information in Litigation

- Examining the nature of post-failure conflicts and disputes
- Understanding the use of forensic engineering information in arbitration, litigation and mediation
- Presenting forensic engineering information as an expert witness
 - Expert witness qualifications
 - Offering testimony as an expert witness

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. 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

Online - Tuesday, June 15 and Wednesday, June 16, 2021

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PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Discuss the importance of standards and codes, and examine the legal and economic impacts of structural failures.

Understand the forensic engineering process, including how to document failures, conduct investigation and research, and determine causation and responsibility.

Learn about preparing and reviewing forensic engineering reports.

Understand causes of structural failures, including material deficiencies, deterioration, and degradation.

Describe forensic investigative methods for steel, wood, and concrete structures.

Discuss the use of forensic engineering information in litigation.



HalfMoon Education Online Learning Structural Forensic Engineering

Live, Interactive Webinar Series

Tuesday, June 15 and Wednesday, June 16, 2021



Understand causes and consequences of structural failures

Focus on forensic investigations of wood, steel and concrete structures

Explore the forensic engineering process

Identify key points in forensic engineering reports

Discuss the use of forensic engineering information during the litigation process

Continuing Education Credits

Professional Engineers
7.0 PDHs

Architects
7.0 HSW CE Hours

AIA
7.0 LU | HSW

International Code Council
.70 CEUs (Building)

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Provider



Faculty

Michael Drerup, P.E., F.ASCE, has 25 years of structural engineering and building technology experience, with an emphasis on the performance, maintenance, repair and retrofit of existing buildings and structures. He has planned and directed field and laboratory studies to evaluate the performance and durability of a variety of building systems, components, and materials, including structural systems, facades, and flooring. Mr. Drerup often works closely with specialists in other disciplines to assemble and manage teams tailored for larger and more complex assignments. He has also investigated numerous damage claims resulting from a variety of natural and man-made causes, including earthquakes, weather events, explosions, fire, impact, construction activities, and defective design or construction. Mr. Drerup has served as an expert witness in numerous cases, and he has testified at deposition, trial, and mediation. He has served on ASCE's Forensic Engineering Division since 2001, and recently completed his term as division chair. During that time, he has led the development of continuing education seminars for engineers and architects, chaired ASCE's Fifth Congress on Forensic Engineering in Washington, DC. Mr. Drerup has also represented ASCE internationally, including sponsored trips to forensic engineering conferences in India and Guatemala, and collaboration with the Institution of Forensic Engineers in the United Kingdom. He has served as a reviewer for ASCE's *Journal of Performance of Constructed Facilities* for more than 15 years, and he was guest editor for a special topic issue on non-destructive evaluation of existing buildings and infrastructure. Mr. Drerup regularly publishes and presents on a range of topics including technical issues, professional practice, and architectural and engineering history.

Webinar Information

Day One: Tuesday, June 15, 2021
10:00 am - 1:45 pm CDT (including two 15-min. breaks)

Day Two: Wednesday, June 16, 2021
10:00 am - 2:15 pm CDT (including two 15-min. breaks)
(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$289 for individual registration
\$199 for three or more registrants from the same company at the same time.
Included with your registration: PDF seminar manual.

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

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit www.gotowebinar.com.

Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

Additional Learning

Special Inspections under the IBC Chapter 17
- Thurs, May 13, 2021 | 11:00 am - 2:15 pm CDT
- Fri, May 14, 2021 | 11:00 am - 3:15 pm CDT

Water Conservation and Reuse for Building Professionals
- Thurs, May 13, 2021 | 11:00 am - 3:00 pm CDT
- Fri, May 14, 2021 | 11:00 am - 3:00 pm CDT

Design Principles of the 2018 International Building Code
- Wed, May 19, 2021 | 8:00 am - 3:20 pm CDT

Sustainable Site Design
- Wed, May 19, 2021 | 8:30 am - 3:50 pm CDT

Septic System Design, Construction and Maintenance
- Thurs, May 20, 2021 | 8:30 am - 4:30 pm CDT

Handling Ethical Issues Associated with Defects and Failures
- Fri, May 21, 2021 | 11:00 am - 12:00 pm CDT

Vegetated Green Infrastructure: Plant and Soil Media Design Considerations for Improved Compliance (or Outcomes)
- Thurs, May 20, 2021 | 8:30 am - 4:30 pm CDT

Managing Construction Projects
- Fri, May 21, 2021 | 8:30 am - 4:30 pm CDT

2018 International Fuel Gas Code
- Fri, May 21, 2021 | 9:30 am - 4:30 pm CDT

Retaining Wall Design and Slope Stabilization Techniques
- Tues, May 25, 2021 | 8:30 am - 4:30 pm CDT

Drones in Construction
- Tues, May 25, 2021 | 9:30 am - 5:00 pm CDT

Seismic Design and Construction
- Tues, May 25, 2021 | 11:00 am - 3:00 pm CDT
- Wed, May 26, 2021 | 11:00 am - 3:00 pm CDT

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

Continuing Education Credit Information
This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects in all states. It offers 7.0 HSW continuing education hours to landscape architects licensed in all states, except Florida, New Jersey, or North Carolina.

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, architects, and landscape 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), §79-1.5(i)(2)). Courses approved by the AIA/CES qualify for Florida and New Jersey architects. Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 7.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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Registration

Structural Forensic Engineering
Live, Interactive Webinar Series - Tuesday, June 15 and Wednesday, June 16, 2021

How to Register		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.
Online: www.halfmoonseminars.org		
Phone: 715-835-5900		
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Complete the entire form. Attach duplicates if necessary.		
Tuition () I will be attending the live webinar. Single Registrant - \$289.00 . Three or more registrants from the same company registering at the same time - \$199.00 each. () I am not attending. Please send me the webinar recording: ☐ Streamable MP4 Video/PDF Manual for \$299.00 . ☐ USB Video/PDF Manual for \$299.00 .		
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: _____ Billing Address: _____ City: _____ State: _____ Zip: _____ Signature: _____ Email: _____		