

Agenda

Presented by Victor Popp, PE, MS, CSL

Introductions & Backgrounds

Examining the Role of Forensic Engineering

- Definition of forensics and structural failure
- 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 and Reviewing Forensic Engineering Reports

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

Understanding Causes of Structural Failures

- Design errors
- Construction errors
- Excessive loadings
- Material deficiencies, deterioration, and degradation
- Testing for material Issues

Forensic Examination of Structures

- Investigation of steel structures
- Investigation of wood structures
- Investigation of concrete structures
- Investigation of masonry and building facades

Using Forensic Engineering Information in Litigation

- Presenting forensic engineering information as an expert witness
- Offering testimony as an expert witness

Structural Forensic Engineering
North Haven, CT - Thursday, October 17, 2019

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Learning Objectives

You'll be able to:

Explain the legal and economic consequences of structural failures.

Identify the causes of structural failure including material deficiencies, deterioration, and degradation.

Evaluate forensic engineering reports.

Recognize how the forensic engineering process is used in investigations of steel, wood, and concrete structural failures.

Understand how forensic engineering information is used in litigation.



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Structural Forensic Engineering

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Understand the causes and consequences of structural failures

Explore the forensic engineering process and learn about investigation techniques and test protocols

Identify key content in forensic engineering reports

Recognize causes of structural failure, including material deficiencies, design errors, and excessive loadings

Discuss the role of the forensic engineer in the litigation process

Continuing Education Credits

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6.0 HSW Continuing Ed. Hours

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Faculty

Victor Popp, PE, MS, CSL *Principal, VPopp Inc.*

Mr. Popp is a licensed professional engineer in New York, Massachusetts, Connecticut, Maine, New Hampshire, Rhode Island and Colorado. He also holds an unrestricted construction supervisor and home inspector license (in Massachusetts). Mr. Popp provides expert technical consulting services based on over three decades of broad-based mechanical and structural engineering experience. He has developed state-of-the-art custom machinery, structures and systems, and he has performed engineering management and consulting services for a wide variety of clients, applications, and industries. These include the consumer, aerospace, materials, testing, biomedical, automotive, and construction markets. Mr. Popp has experience in state-of-the-art design and manufacturing, in production and research and development environments. He has also performed forensic and failure analysis investigations of material and product failures as well as structural engineering analysis. Mr. Popp holds a master’s of science degree in Administrative Studies from Boston College, a bachelor of science degree in Mechanical Engineering from the University of Massachusetts, and a certificate in Engineering Management Development from Worcester Polytechnic Institute. He has also completed other PhD and master’s level engineering course work including bio-mechanical engineering, CAD, thermodynamics, and numerical analysis at UMASS and at Northeastern University. As a result of his extensive professional experience and education, Mr. Popp has been an invited presenter at the University of Fair Haven’s Graduate School of Forensic Engineering and at the National Academy of Forensic Engineers Annual Convention.

Seminar Information

Best Western Plus North Haven
201 Washington Avenue
North Haven, CT 06473
(203) 239-6700

Tuition
\$289 for individual registration
\$269 for three or more registrations.

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:00 pm
Lunch (on your own)
12:00 - 1:00 pm
Afternoon Session
1:00 - 4:30 pm

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 and offers 6.0 continuing education hours to professional engineers and 6.0 HSW continuing education hours to architects in all states. Continuing education is not mandatory in Connecticut.

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

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects.

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

Additional Learning

Webinar Series

- Introduction to Hydro Energy Logic Modeling Software (HELP-FL)**
- **Introduction to Hydro Energy Logic Program Modeling Software (HELP-FL), Part I**
Tues., August 20, 2019, 11:00 AM - 2:00 PM CDT
 - **Introduction to Hydro Energy Logic Program Modeling Software (HELP-FL), Part II**
Wed., August 21, 2019, 11:00 AM - 2:30 PM CDT
- Small Wind Energy Systems**
- **Small Wind Energy System Components**
Thurs., August 22, 2019, 11:00 AM - 1:00 PM CDT
 - **Small Wind Energy Siting and Sizing**
Fri., August 23, 2019, 11:00 AM - 1:00 PM CDT

- Deep Foundations and Excavations**
- **Earth Retention**
Tues., August 27, 2019, 11:00 AM - 1:30 PM CDT
 - **Deep Foundations**
Wed., August 28, 2019, 11:00 AM - 1:30 PM CDT

- Commercial Solar Peaker Batteries**
- **Commercial Solar Peaker Batteries, Part I**
Wed., September 4, 2019, 11:00 AM - 2:15 PM CDT
 - **Commercial Solar Peaker Batteries, Part II**
Thurs., September 5, 2019, 11:00 AM - 2:15 PM CDT

- Commercial Provisions of the International Energy Conservation Code**
- **Commercial Provisions of the International Energy Conservation Code**
Wed., September 11, 2019, 11:00 AM - 1:00 PM CDT
 - **IECC Provisions for Commercial Building Envelopes**
Wed., September 11, 2019, 1:30 - 4:00 PM CDT
 - **IECC Provisions for Commercial Building HVAC Systems**
Thurs., September 12, 2019, 11:00 AM - 12:00 PM CDT
 - **IECC Provisions for Commercial Building Lighting**
Thurs., September 12, 2019, 12:30 - 2:00 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!
Audio recordings of this seminar are available for purchase starting at \$269. 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.

Registration

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How to Register		Registrant Information	
Online: www.halfmoonseminars.org		Name: _____	
Phone: 715-835-5900		Company/Firm: _____	
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Code:		City: _____ State: _____ Zip: _____	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Occupation: _____	
Complete the entire form. Attach duplicates if necessary.		Email: _____	
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		Occupation: _____	
		Email: _____	
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		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 - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

() **I am not attending.** Please send me the self-study package:

☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.

☐ 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: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____

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