Learning Objectives

You’ll be able to:

Understand the importance of good design and the impact of codes and standards as tools to minimize structural failures.

Discuss how forensic research and investigation can be used to determine the causes of failures.

Evaluate the format and content of forensic engineering reports.

Identify the causes of structural failure including material deficiencies, deterioration, and design and construction errors.

Compare forensic investigation procedures for various types of structures including steel, wood, and concrete.

Discuss the use of forensic engineering information during the litigation process.

Structural Forensic Engineering
Norfolk, VA - Thursday, August 13, 2020

Understand causes and consequences of structural failures
Explore the forensic engineering process
Identify key points in forensic engineering reports
Learn the causes of structural failures
Understand forensic investigations of wood, steel and concrete structures
Review the use of forensic engineering information during the litigation process

Presented by Michael J. Drerup, P.E.

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
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

You'll be able to:

Understand the importance of good design and the impact of codes and standards as tools to minimize structural failures.

Discuss how forensic research and investigation can be used to determine the causes of failures.

Evaluate the format and content of forensic engineering reports.

Identify the causes of structural failure including material deficiencies, deterioration, and design and construction errors.

Compare forensic investigation procedures for various types of structures including steel, wood, and concrete.

Discuss the use of forensic engineering information during the litigation process.
Doubletree by Hilton
1500 North Military Highway
Norfolk, VA 23520
(757) 466-8000
Seminar Information
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 - 4:45 pm
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 if 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:
Cancellations are due at least 48 hours before the start of the seminar, and receive a full tuition refund; minus a $59 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.

Additional Learning
Webinar Series
Low Impact Development
Introduction to Low Impact Development and Bioretention System Design
Wed, May 20, 2020, 11:00 AM - 1:00 PM CDT
LID Residential Development and Case Studies
Thurs., May 21, 2020, 11:00 AM - 1:00 PM CDT
Construction Scheduling
Construction Project Selection, Scheduling, and Time Management
Wed, May 27, 2020, 11:00 AM - 1:00 PM CDT
Critical Path Method (CPM) Scheduling and Diagram
Wed, May 27, 2020, 1:30 - 3:30 PM CDT
Construction Cost Management
Thurs., May 28, 2020, 11:00 AM - 1:00 PM CDT
Fine-Tuning and Changing the Construction Schedule
Thurs., May 28, 2020, 1:30 - 3:30 PM CDT
Onsite Wastewater Treatment Systems
Onsite Wastewater Treatment Technologies and Contaminant Removal
Thurs., May 28, 2020, 11:00 AM - 12:30 PM CDT
Evaluating Onsite Sites, Setting Treatment Goals and System Design
Thurs., May 28, 2020, 1:00 - 2:30 PM CDT
Alternative and Sustainable Onsite Treatment Technologies
Fri., May 29, 2020, 11:00 AM - 12:30 PM CDT
Management Programs for Onsite Wastewater Treatment Systems
Fri., May 29, 2020, 1:00 - 2:30 PM CDT
For more information and other online learning opportunities visit: www.halfmoonseminars.org/webinars/

Can’t Attend? Order the Manual and the Audio from the Live Seminar as a Self-Study Package!
An audio recording of this seminar is available for $279. Allow four 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.

Registration
Structural Forensic Engineering
Norfolk, VA - Thursday, August 13, 2020
How to Register
Online:
www.halfmoonseminars.org
Phone:
715-835-5900
Fax:
Code:
715-835-6066
Mail:
HalfMoon Education Inc., PO Box 278, Altona, WI 54720-0278
Complete the entire form. Attach duplicates if necessary.

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.
Please send me the self-study package:
− CD/Manual Package for $299.00.
− USB/Manual Package for $299.00.
(Include four 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:
Additional Registrants:
Address:
Phone:
Name:
Occupation:
Email:
Phone:
Name:
Occupation:
Email:
Phone:
Name:
Occupation:
Email:
Phone:
Name:
Occupation:
Email:
Phone:
Name:
Occupation:
Email:
Phone:

© 2020 HEI #20 VASTFENG B1 13 NRBF L1