

Agenda

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

Distinguishing between Construction Defects and Failures

- Defining defects
- Causes of defects: problems with design, materials and/or construction
- Defining failures
- Causes of failures: deterioration, unintended use, "Acts of God"

Examining Common Defects and Failures

- Analyzing defects and failures for methodology and causality
- Site selection and engineering
- Building design
- Foundation design and construction
- Design and construction of floors, walls and roofing
- Exploring defects and failures in mechanical and electrical systems

Adopting Practices that Reduce Defects and Failures

- Reviewing proposed use and preparing construction documents
- Complying with building codes and standards
- Choosing materials and construction techniques
- Investigating new materials and construction techniques
- Monitoring construction
- Correcting problems before project completion
- Building commissioning, operation and maintenance

Preventing and Resolving Disputes Generated by Defects and Failures

- Identifying parties with potential liability
- Understanding theories of liability
- Identifying defenses to liability
- Timeliness, contractual defenses, crossclaims and counterclaims
- Participating in conflict resolution procedures
- Mediation, arbitration, litigation
- Reviewing types of damages and how they are calculated
- Insurance coverage issues

Handling Ethical Issues Associated with Defects and Failures

- Understanding the parties' roles and relationships
- Understanding the liability and indemnification provisions in construction documents
- Duty to raise potential safety, durability issues
- Making warranties and guarantees
- Working outside areas of competence

Preventing and Addressing Construction Defects and Failures

Fairfax, VA - Thursday, July 18, 2019



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Altoona, WI 54720-0278

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Learning Objectives

You'll be able to:

Distinguish between defects due to design and construction, and failures due to deterioration or unintended use.

Analyze defects and failures for methodology and causality.

Adopt practices that reduce defects and failures.

Identify parties with potential liability.

Handle ethical issues associated with defects and failures.



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Understand the differences between construction defects and failures

Identify common defects and failures

Evaluate building materials and construction techniques

Prevent and resolve disputes generated by defects and failures

Discuss ethical issues associated with defects and failures

Continuing Education Credits

Professional Engineers

7.0 Continuing Ed. Hours

Contractors

Non-Credit Continuing Ed.

Architects

7.0 Continuing Ed. Hours (HSW)

7.0 AIA HSW Learning Units



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Faculty

Michael Drerup, P.E., F.ASCE has nearly 20 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 has testified at deposition, trial, and mediation.

He has served on ASCE’s Technical Council on Forensic Engineering for 13 years, and recently completed his term as Council chair. During that time, he led the development of continuing education seminars for engineers and architects, chaired ASCE’s Fifth Congress on Forensic Engineering in Washington, DC, and served on the steering committee for the Sixth Congress in San Francisco. Mr. Drerup has also represented ASCE internationally, including two sponsored trips to forensic engineering conferences in India, 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 10 years, and 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.

Seminar Information

Hilton Garden Inn Fairfax
3950 Fair Ridge Drive
Fairfax, VA 22033
(703) 385-7774

Tuition
\$289 for individual registration
\$269 for three or more 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 and offers 7.0 continuing education hours to professional engineers and architects (HSW) in most states. Educators and courses are not subject to preapproval in Virginia.

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

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.

This seminar offers a non-credit continuing education opportunity to construction contractors; it has not been approved by any state contractor licensing entity for continuing education purposes.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire program. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Additional Learning

Webinar Series

- International Existing Building Codes**
- **Working with the International Existing Building Code**
Thurs., June 20, 2019, 11:00 AM - 12:30 PM CDT
 - **Chapters 3, 4 & 6**
Thurs., June 20, 2019, 1:00 - 3:00 PM CDT
 - **Chapters 7-10: Alterations and Occupancy**
Fri., June 21, 2019, 11:00 AM - 1:00 PM CDT
 - **Chapters 11, 12 and 14: Additions and Historic Buildings**
Fri., June 21, 2019, 1:30 - 3:00 PM CDT

Retaining Structures

- **Earth Pressures and Surcharges**
Wed., June 26, 2019, 11:00 AM - 12:30 PM CDT
- **Cantilever & Apparent Earth Pressures**
Wednesday, June 26, 2019, 1:00 - 2:30 PM CDT
- **Apparent Earth Pressures**
Thurs., June 27, 2019, 11:00 AM - 12:30 PM CDT

Industrial Stormwater

- **Understanding the Federal Industrial Stormwater Program**
Thurs., June 27, 2019, 11:00 AM - 12:30 PM CDT
- **Examining Stormwater Pollutants and the Development of Total Maximum Daily Loads (TMDLs)**
Thurs., June 27, 2019, 1:00 - 2:00 PM CDT
- **Creating Stormwater Pollution Prevention Plans (SWPPPs)**
Fri., June 28, 2019, 11:00 AM - 12:00 PM CDT
- **Implementing Best Management Practices (BMPs), Sampling and Reporting**
Fri., June 28, 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		
Phone: 715-835-5900		
Fax: 715-835-6066	Code:	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		
Complete the entire form. Attach duplicates if necessary.		
		Additional Registrants:
		Name: _____
		Company/Firm: _____
		Address: _____
		City: _____ State: _____ Zip: _____
		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 - **\$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*

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