

Agenda

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

J. Partain,
J. Allen

Understanding the Forensic Engineering Process

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

J. Partain

Forensic Examination of Structures

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

J. Allen

Understanding Causes of Structural Failures

- Material deficiencies
- Design errors
- Construction errors
- Excessive loadings
- Deterioration and degradation

J. Partain

Preparing the Forensic Engineering Report

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

J. Partain

Using Forensic Engineering Information in Litigation

- Sources of liability for architects, engineers and contractors in Alabama
- Alternative dispute resolution in construction contracting
- Expert testimony in Federal court and Alabama circuit courts

J. Allen

Structural Forensic Engineering
Birmingham, AL - Wednesday, July 17, 2019

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Learning Objectives

You'll be able to:

Identify the causes, consequences and legal and economic impacts of failures.

Understand the forensic engineering process, including how to investigate, document and learn from failure.

Define the purpose, audience, content and organization of the forensic engineering report.

Understand how materials deficiencies, design errors and construction errors can lead to structural failures.

Review the forensic examination of steel, wood and concrete structures, as well as masonry and building facades.

Conceptualize how forensic engineering information is used in arbitration, litigation and mediation



Structural Forensic Engineering

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Examine the role of forensic engineering

Understand the forensic engineering process

Learn how to prepare the forensic engineering report

Consider the causes of structural failures

Explore the forensic examination of steel, wood and concrete structures

Discuss how to use forensic engineering information in litigation

Continuing Education Credits

Professionals Engineers

7.0 PDHs

Contractors

Non-Credit Continuing Ed.

Architects

7.0 HSW CEHs

7.0 AIA HSW Learning Units



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Faculty

Jason A. Partain, M.S., P.E. *MBA Engineers, Inc.*

Mr. Partain is a licensed professional engineer with 15 years of experience in structural engineering design and forensics for single and multi-family residential, commercial, institutional, and industrial structures. His experience includes projects in high wind regions along the Gulf Coast and East Coast, as well as high seismic zones along the New Madrid Fault Line. In addition, he has designed residential and community tornado storm shelters including the Habiframe, Inc., wood-framed shelter which was awarded the US Wood Design Awards Juror’s Choice Award in 2014. Mr. Partain is active in engineering standards work and has published articles in both regional and national publications. He is also on the Board of Directors for the Structural Engineers Association of Alabama and served as president for 2018. Mr. Partain earned his Bachelor’s and Master’s degrees in Civil Engineering from the University of Alabama and holds professional engineering licenses in multiple states.

Joseph M. Allen, Jr., Ph.D., J.D., P.E. *Joseph Marion Allen, P.C.*

Dr. Allen has been practicing law in state and federal courts in Alabama since 1976 with a focus on the interface of engineering and the law in such areas as construction contracting and product liability. He has also served as a forensic engineering expert, working for individuals, attorneys, construction companies and insurance companies. Dr. Allen has remained active in structural engineering throughout his career. He has been involved in software development for TrimJoist Corporation, a manufacturer of parallel chord, wooden trusses with glued, oriented strand board end sections that are trimmable on the jobsite. During his involvement with the Civil Engineering Department at The University of Alabama, he was instrumental in the inception of the JD/MSCE program, wherein students can obtain a graduate engineering degree while attending law school. Dr. Allen became registered as a Professional Engineer in the State of Alabama in 1981, and received his Doctor of Philosophy from The University of Alabama in 1988 in Civil Engineering, with a concentration in structures.

Seminar Information

Birmingham Marriott
3590 Grandview Pkwy
Birmingham, AL 35243
(205) 968-3375

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:15 pm
Lunch (On your own)
12:15 - 1:15 pm
Afternoon Session
1:15 - 5:00 pm

Tuition
\$289 for individual registration
\$269 for three or more registrants from the same company at the same time.

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 the public and offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects in most states. Educators and courses are not subject to preapproval in Alabama.

This seminar is 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 program offers a non-credit continuing education opportunity to Alabama construction contractors. It has not been submitted to any state contractor licensing entity for course approval.

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

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	Name: _____
	Company/Firm: _____
	Address: _____
	City: _____ State: _____ Zip: _____
Phone: 715-835-5900	Occupation: _____
	Email: _____
Fax: 715-835-6066	Phone: _____
Code:	Additional Registrants:
	Name: _____
	Occupation: _____
	Email: _____
	Phone: _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Name: _____
	Occupation: _____
	Email: _____
	Phone: _____
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 - \$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: <i>Mastercard, Visa, American Express, or Discover</i>
Credit Card Number: _____
Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
Billing Address: _____
City: _____ State: _____ Zip: _____
Signature: _____
Email: _____