

Agenda

Presented by Collins Ofori-Amanfo, P.E.

Agenda Day One

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
- Evaluating sample reports
- Organizing the report

Agenda Day Two

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 course listing online 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 - Wed., August 10 and Thurs., August 11, 2022

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PO Box 278
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Learning Objectives

You'll be able to:

Explore the legal and economic impacts of structural failures.

Identify the ways in which design errors, construction errors, excessive loadings and deterioration can lead to structural failures.

Discuss the forensic engineering process from investigation through report preparation.

Investigate the causes of structural failures of steel, wood and concrete structures.

Examine the nature of post-failure conflicts and disputes, and consider the role of forensic engineering in dispute resolution.



HalfMoon Education Live Webinars

Structural Forensic Engineering

Live, Interactive Webinar

Wednesday, August 10 and Thursday, August 11, 2022



Discuss the role of forensic engineering in determining the causes and consequences of structural failures

Consider the impact of codes and standards

Explore the forensic engineering process

Examine the content of forensic engineering reports

Identify the impact of material deficiencies, design errors and construction errors on structural failures

Investigate failures in steel, wood and concrete structures

Continuing Education Credits

Professional Engineers
6.5 PDHs

International Code Council
.65 CEUs (Building)

Architects
6.5 HSW CE Hours
6.5 AIA LU | HSW

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Continuing
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Faculty

Collins Ofori-Amanfo, P.E. *Owner and Principal Engineer at Collins Forensics LLC*
Mr. Collins O.Y. Ofori-Amanfo, P.E., is the owner and principal engineer of Collins Forensics LLP. His broad-based experience includes investigation of construction defects and damage, investigation of condensation in building envelopes, evaluation of roof and wall leakage, field water spray testing of windows, and assessment of wind and hail damage to roofing materials. His work also involves giving expert testimony and assisting attorneys in resolving disputes over construction and materials-related problems. Prior to establishing Collins Forensics LLC, Mr. Ofori-Amanfo worked for many years at Wiss, Janney, Elstner Associates, Inc. (WJE), the Illinois Department of Transportation and Twin City Testing Corporation. He received his B.S. degree in Civil Engineering from the University of Science and Technology in Ghana and his M.S. degree in Structural Engineering from the University of Minnesota, Minneapolis. Mr. Ofori-Amanfo is a registered professional engineer in Minnesota, Wisconsin, Iowa and Illinois.

Webinar Information

Day One: Wednesday, August 10, 2022
10:00 am - 1:30 pm CDT (including a 15-min. break)

Day Two: Thursday, August 11, 2022
10:00 am - 1:30 pm CDT (including a 15-min. break)
(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$319 for individual registration
\$289 for two 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.

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.

Additional Learning

AIA Contract Document Workshop
- Wed, July 6, 2022 | 8:30 am - 4:30 pm CDT

How to Design Foundations for Expansive Soils
- Fri, July 8, 2022 | 1:00 - 4:15 pm CDT

Applying Passive Solar Design To Conventional Homes
- Mon, July 11, 2022 | 2:30 - 4:30 pm CDT

Construction Cost Estimating Workshop: Estimating a Small Commercial Building
- Mon, July 11, 2022 | 8:30 - 4:00 pm CDT

Efficient Residential Space Heating
- Wed, July 13, 2022 | 8:00 am - 3:30 pm CDT

Special Inspections under International Building Code, Ch. 17
- Wed, July 13, 2022 | 12:00 - 4:00 pm CDT
- Thurs, July 14, 2022 | 12:00 - 4:00 pm CDT

Handling Ethical Issues in Government Projects
- Thurs, July 14, 2022 | 10:00 - 11:00 am CDT

Complying with Commercial Provisions of the 2021 International Energy Conservation Code
- Fri, July 15, 2022 | 8:30 am - 4:30 pm CDT

Engineered Lumber Design and Construction
- Tues, July 19, 2022 | 8:30 am - 5:00 pm CDT

Writing Successful Proposals and RFPs
- Tues, July 19, 2022 | 8:30 am - 5:00 pm CDT

Shallow Foundation Design
- Wed, July 20, 2022 | 11:00 am - 2:15 pm CDT
- Thurs, July 21, 2022 | 11:00 am - 2:15 pm CDT

International Residential Code 2021
- Thurs, July 21, 2022 | 9:00 am - 5:00 pm CDT

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

Continuing Education Credit Information
This webinar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to licensed architects in all states.

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 and 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)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU | HSWs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

Added Value:
Enhance your learning - a recording of this webinar will be available for attendees to stream online for two weeks after the program date.
(Must attend live webinar to earn live webinar credits)

Registration

Structural Forensic Engineering
Live, Interactive Webinar - Wednesday, August 10 and Thursday, August 11, 2022

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 - \$319.00 . Two or more registrants from the same company registering at the same time - \$289.00 each. () I am not attending. Please send me the webinar recording: ☐ Streamable MP4 Video/PDF Manual for \$329.00 . ☐ USB Video/PDF Manual for \$329.00 .		
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: _____		