

Agenda

Presented by Mr. Collins O.Y. Ofori-Amanfo, 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

Structural Forensic Engineering

Live, Interactive Webinar - Tuesday, September 29, 2020

NON-PROFIT
U.S. POSTAGE PAID
EAU CLAIRE, WI
PERMIT NO. 2016

HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Discuss the importance of good design and code compliance in the design of structures.

Understand the legal and economic impacts of structural failures.

Describe the forensic engineering process from failure documentation, through testing and determination of causation.

Identify common causes of structural failures, including material deficiencies, design errors, construction errors, excessive loading and deterioration.

Discuss the forensic examination of steel, concrete, wood and masonry structures.



Find us on
Facebook

HalfMoon Education Online Learning

Structural Forensic Engineering

Live, Interactive Webinar - Tuesday, September 29, 2020



Understand the role of the forensic engineer

Explore field and laboratory test protocols

Review preparation of the forensic engineering report

Examine the role of forensic engineering in construction disputes

Review the use of forensic engineering information in litigation

Continuing Education Credits

Professional Engineers

6.5 PDHs

AIA

6.5 LU|HSW

Architects

6.5 HSW CE Hours

International Code Council

.65 CEUs (Building)



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG



**AIA
Continuing
Education
Provider**

**ICC
PREFERRED
EDUCATION
PROVIDER**

Faculty

Mr. Collins O.Y. Ofori-Amanfo, P.E., is a board certified diplomate forensic engineer and is the owner and principal engineer of Collins Forensics LLP. Prior to establishing Collins Forensics LLC, Mr. Ofori-Amanfo previously 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, North Dakota, Nebraska and Illinois. His broad-based experience includes investigation of collapsed structures, 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 buildings. His work also involves giving expert testimony and assisting attorneys in resolving disputes over construction and materials-related problems. Mr. Ofori-Amanfo has been an instructor at HalfMoon Education, Inc.’s Structural Forensic Engineering Continuing Education Seminars in Kentucky, North Carolina, North Dakota, South Dakota, Minnesota, Texas, Iowa and Nebraska.

Webinar Information

Log into Webinar 8:00 - 8:30 am CDT	Break 12:00 - 1:00 pm CDT
Morning Session 8:30 am - 12:00 pm CDT	Afternoon Session 1:00 - 4:30 pm CDT

Tuition
\$299 for individual registration
\$199 for three 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.

Additional Learning

Current Issues in Interior Design
- Mon., Sept. 21, 2020 | 11:00 am - 3:05 pm CDT
- Tues., Sept. 22, 2020 | 11:00 am - 1:25 pm CDT

Designing for Accessibility under ADA Standards and IBC
- Tues., Sept. 22, 2020 | 8:30 am - 4:30 pm CDT

Floodplain Modeling, Mapping and Regulation
- Tues., Sept. 22, 2020 | 10:00 am - 2:00 pm CDT
- Wed., Sept. 23, 2020 | 10:00 am - 2:00 pm CDT

Geothermal Heating and Cooling: Technology and Applications
- Tues., Sept. 22, 2020 | 8:30 am - 4:30 pm CDT

Wood as a Raw Building Material
- Wed., Sept. 23, 2020 | 10:00 am - 1:30 pm CDT

Drones in Construction
- Thurs., Sept. 24, 2020 | 11:00 am - 2:30 pm CDT
- Fri., Sept. 25, 2020 | 11:00 am - 3:00 pm CDT

Introduction to Mass Timber Construction
- Fri., Sept. 25, 2020 | 10:00 am - 1:30 pm CDT

International Plumbing Code
- Fri., Sept. 25, 2020 | 8:30 am - 5:00 pm CDT

2018 International Residential Code: Structural Construction
- Fri., Sept. 25, 2020 | 11:00 am – 3:30 pm CDT

Parking Structure Design, Construction and Maintenance
- Tues., Sept. 29, 2020 | 11:00 am - 3:00 pm CDT
- Wed., Sept. 30, 2020 | 11:00 am - 2:30 pm CDT

Project Management Fundamentals for Engineers
- Tues., Sept. 29, 2020 | 8:30 am - 4:00 pm CDT

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

Continuing Education Credit Information

This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to 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), North Carolina (S-0130), and North Dakota. 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|HSW (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).

Completion certificates will be awarded to participants who complete this event and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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.

Registration

Structural Forensic Engineering

Live, Interactive Webinar - Tuesday, September 29, 2020

How to Register 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.	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.
Tuition () I will be attending the live webinar. Single Registrant - \$299.00. Three or more registrants from the same company registering at the same time - \$199.00 each. () I am not attending. Please send me the webinar recording: ☐ Streamable MP4 Video/PDF Manual for \$279.00. ☐ USB Video/PDF Manual for \$279.00. 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: _____	