

HalfMoon Education Live Continuing Education Webinars

Forensic Engineering of Infrastructure: Preventing and Addressing Failures

Online - Monday, December 19, 2022 | 9:00 am - 4:50 pm CST

Credits:

Professional Engineers: 7.0 PDHs, Including 1.0 Ethics Hour

Architects: 7.0 HSW CE Hours AIA: 7.0 LU/HSW

International Code Council: .7 CEUs (Building)

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Webinar Agenda | Monday, December 19, 2022 | 9:00 am - 4:50 pm CST (including a 30-min. break)

Designing and Constructing to Prevent Failures

- Importance of standards and codes
- Design professional duties and the design process
- Understanding the standard of care
- Legal and economic impacts of failures
- Purpose of forensic engineering

Understanding Causes of Structural Failures

- Lessons learned from historic failures
- Design errors
- Material deficiencies
- Deterioration and degradation
- "Acts of God"
- Defective construction
- Excessive loadings

Understanding the Forensic Engineering Process

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

Forensic Examination of Infrastructure

- Investigation of roadways
- Investigation of bridges
- Investigation of utility facilities
- Investigation of subsurface infrastructure
- Investigation of tunnels

New Techniques for Infrastructure Investigation

- Use of drones
- Digital twinning

Ethical Issues in Structural Engineering

- Design responsibilities that are exclusively duties for engineers
- Practicing only in areas of competence
- Adopting new materials/techniques: due diligence
- Duty to disclose potential problems

Presented by

Casey K. Hemmatyar *President, Pacific Structural & Forensic Engineers Global (PSFEG), Ventura, CA*

Nur Yazdani, Ph.D., P.E., F. ASCE, F.ACI, F.SEI

Professor and past Chairperson at the Civil Engineering Department at the University of Texas at Arlington

Chuck Adams

CEO, IUP Aerial Drone Services, headquartered in Golden, CO

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.

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Recordings of this webinar are available for purchase. See details 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.

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or scan here



Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs, including 1.0 ethics hour, for professional engineers and 7.0 HSW continuing education hours for 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 7.0 LU/HSWs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

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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).