

Credit Information

IBC Building Classification, Occupancy and Mixed Occupancies

This webinar is open to the public and 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) 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 | 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, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Structural Forensic Engineering

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Live, Interactive Webinars

- IBC Building Classification, Occupancy and Mixed Occupancies
- Structural Forensic Engineering

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Live, Interactive Webinars

IBC Building Classification, Occupancy and Mixed Occupancies

- Wednesday, April 13, 2022 | 9:00 am - 4:30 pm CDT

Structural Forensic Engineering

- Tuesday, April 19, 2022 | 9:00 am - 3:50 pm CDT

To register, view detailed presenter biographies, and see other learning opportunities, please visit:

www.halfmoonseminars.org

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**AIA
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Tuition: \$319 per registrant, \$289 per registrant for two or more

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Agenda

Overview of Concepts and Occupancy Classification

- Discussion of concepts
- Chapter 3 occupancy classification

Chapter 6 Type of Construction

- Connecting type of construction as it relates to mixed occupancies
- Evaluation of tables 601 and 602

Chapter 5 Heights and Areas

- General area provisions
- Definition building area
- Definition building height
- Definition grade plane
- Mezzanines

Chapter 5 Heights and Areas continued

- Table 504.3 allowable height
- Table 504.4 allowable stories
- Table 506.2 allowable area
- Allowable area increases
 - Sprinkler
 - Frontage
- Unlimited area building
- Mixed occupancy provisions
 - Separated
 - Non-separated
 - Accessory
- Incidental uses
- Special provisions

This program is based on the 2018 IBC.

Notes will be listed for applicable changes that appear in the 2021 IBC.

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Examining the Role of Forensic Engineering

- Causes and consequences of structural failures
- Importance of sound 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, procedures, and process
- 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

- Lessons learned from historic failures
- Design errors
- Defective construction
- Material deficiencies
- 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

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Added Value:

Enhance your learning - a recording of these webinars will be available for attendees to stream online for two weeks after the program date. (live webinar attendance required to receive credit)

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Faculty

IBC Building Classification, Occupancy and Mixed Occupancies

Greg Karow *Certified Building Official CEO of Code Educational Opportunities*

Mr. Karow is the CEO of Code Educational Opportunities providing education based on current building codes. He also provides service as a building code specialist for Inspectron Inc, a contract inspection and consulting firm. Mr. Karow has an extensive background in developing and presenting various types of building code and related seminars. Previous career paths included staff instructor with the International Code Council and with the State of Minnesota Codes and Standards Division. He has instructed in a Building Inspection Technology program at a local community college. Mr. Karow is a certified building official in Minnesota and holds ICC certifications as a Certified Building Official, ICC Plans Examiner, ICC Building Inspector and ICC Building Code Specialist.

Structural Forensic Engineering

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

As a structural and civil engineer and expert forensic consultant with nearly four decades of experience, Mr. Hemmatyar has provided extensive expert services for defendants and plaintiff attorneys on numerous construction litigation matters throughout the United States. He has been retained as an expert by the US Government and private law firms on single and class-action lawsuits at both State and Federal levels. Mr. Hemmatyar's understanding of core engineering and legal concepts has enabled him to effectively assist a wide range of clientele. He brings diversified experience in structural and civil engineering design, and in forensic engineering, investigation, and evaluation. Mr. Hemmatyar also conducts research and has assisted in development of building codes and standards and he has supervised construction of domestic and international projects. His experience includes special structures and new buildings as well as modifications, alterations, seismic/hurricane retrofits, and upgrades to existing structures. Mr. Hemmatyar has provided failure analysis, expert consultation, structural forensic investigation, and damage assessment services for many litigation and insurance-related matters. He actively presents continuing education lectures to audiences of engineers, architects, and contractors on topics of structural and forensic engineering throughout the United States. Mr. Hemmatyar has been the principal structural engineer on projects for clients such as NASA and several other high-profile agencies. Currently he directs PSFEG and has served as Director for SEAOSC in 2011-2013. Mr. Hemmatyar has been interviewed by public media including History Channel (documentary episode: "Collapse of Ancient Structures") and Reuters (Mexico City school collapse).

Additional Learning

Engineered Lumber Design and Construction

- Tues, Mar 8, 2022|8:30 am-12:10 pm CST
- Wed, Mar 9, 2022|8:30 am-12:10 pm CST

Designing and Constructing All-Electric Buildings

- Wed, Mar 9, 2022|11:00 am-2:15 pm CST
- Thurs, Mar 10, 2022|11:00 am-2:15 pm CST

Drone Applications for Engineers

- Mon, Mar 21, 2022|9:00 am-4:30 pm CDT

High-Performance Building Envelopes: Designing for Energy Efficiency and Durability

- Wed, Mar 23, 2022|10:00 am-1:45 pm CDT
- Thurs, Mar 24, 2022|10:00 am-1:45 pm CDT

Stormwater Best Management Practices

- Fri, Mar 25, 2022|8:30 am-5:00 pm CDT

Biorentention System Design

- Mon, Mar 28, 2022|1:00-3:00 pm CDT

Designing for Accessibility under ADA Standards and IBC

- Tues, Mar 29, 2022|8:30 am-12:15 pm CDT
- Wed, Mar 30, 2022|8:30 am-12:15 pm CDT

Examining Common Construction Defects and Failures

- Thurs, Mar 31, 2022|10:00 am-12:00 pm CDT

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