

Agenda

Presented by John Squerciati, PE, CFM

Agenda Day One

Session 1: Floodplain Development under NFIP Standards

- Overview of the NFIP
- Determining what regulations are in effect for a property
- Classifying structures
- Identifying when permits are required
- Using the right maps and flood data
- Determining which building codes apply

Session 2: Building Design Under NFIP Standards

- Standards for building design
- Technical Bulletin 1: Openings in foundation walls and enclosure walls
- Technical Bulletin 2: Flood damage-resistant materials
- Technical Bulletin 3: Dry floodproofing
- Technical Bulletin 5: Free-of-obstruction requirements
- Technical Bulletin 7: Wet floodproofing
- Technical Bulletin 9: Breakaway walls
- Other bulletins: elevators, below-grade parking, corrosion protection

Agenda Day Two

Session 3: Designing and Constructing Flood-Resistant Buildings

- Flood-resistant design review
- The NFIP and building code requirements
- Understanding flood zones and classifying buildings
- Complying with siting requirements
- Using flood-damage resistant materials
- Installing utilities and service equipment
- ASCE 7-16: Flood-resistant building design loads
- Reviewing flood-resistant design and construction benefits to clients
 - Reduced damages and losses
 - Reduced service losses
 - Reduced insurance costs
 - Increased resiliency

Session 4: Designing and Constructing Foundations and Above-Grade Flood Resistance

- Basic principles of flood-resistant design
- Foundation types and styles
- Complying with restrictions on soils and fill
- Designing closed foundations and slabs-on-grade
- Designing open foundations on piles
- Complying with elevation requirements to use freeboard
- Design of walls
- Location of mechanical and HVAC equipment
- Design of decks, concrete pads and patios
- Pool design
- Limitations on dry flood-proofed, non-residential buildings

Case Study Exercises

Flood-Resistant Design and Construction

Online - Wednesday, May 25 and Thursday, May 26, 2022

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Learning Objectives

You'll be able to:

Learn to use flood maps, and identify which building codes and standards apply to building sites.

Comply with National Flood Insurance Program standards for flood-resistant design.

Explore the financial benefits of flood-resistant design.

Get tips on dry and wet floodproofing and breakaway walls.

Review requirements for installing utilities and service equipment.

Explore foundation types and styles, and comply with requirements to use freeboard.



HalfMoon Education Live Webinars

Flood-Resistant Design and Construction

Live, Interactive Webinar

Wednesday, May 25 and Thursday, May 26, 2022



Determine what floodplain regulations are in effect for a property

Explore building design under National Flood Insurance Program standards

Learn about flood resistant design

Use flood damage-resistant materials

Explore flood-resistant building design loads

Get tips on designing foundations and above-grade flood resistance

Continuing Education Credits

Professional Engineers

6.0 PDHs

Architects

6.0 HSW CE Hours

6.0 AIA LU | HSW

Floodplain Managers

6.0 CECs

International Code Council

.6 CEUs (Building)

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Faculty

John Squerciati, PE, CFM *Senior Associate at Dewberry Engineers, Inc. in Fairfax, Virginia*
Mr. Squerciati has over 23 years of post-disaster damage assessment and hazard mitigation experience under Dewberry's Technical Assistance Contracts with the Federal Emergency Management Agency (FEMA). He has worked on numerous floods and other natural disasters as well as terrorist events. Mr. Squerciati has provided assistance in developing and updating several FEMA policy and technical documents including Protecting Building Utilities From Flood Damage (FEMA P-348); Mitigation Assessment Team Report; Hurricane Katrina in the Gulf Coast (FEMA 549); Flood Damage-Resistant Materials Requirements (NFIP Technical Bulletin 2); Protecting Manufactured Homes from Floods and Other Hazards (FEMA P-85); Homeowner's Guide to Retrofitting (FEMA P-312); Engineering Principles and Practices for Retrofitting Flood Prone Residential Buildings (FEMA P-259); Hurricane Isaac in Louisiana Mitigation Assessment Team Report (FEMA P-938); Floodproofing Non-Residential Buildings (FEMA P-936); Mitigation Assessment Team Report – Hurricane Sandy in New Jersey and New York: Building Performance Observations, Recommendations, and Technical Guidance (FEMA P-942); and Mitigation Assessment Team Report – Hurricanes Irma and Maria in Puerto Rico (FEMA P-2020). Mr. Squerciati currently serves on flood-related technical standard committees for both the American Society of Civil Engineers (ASCE) and ASTM International.

Mr. Squerciati has developed course materials and served as an instructor for the following courses at FEMA's Emergency Management Institute: Multi-Hazard Mitigation Design Concepts (E312), Retrofitting Flood-Prone Residential Buildings (E279), Benefit-Cost Analysis (E276), Public Assistance Mitigation (E239), Residential Coastal Construction (E386) and Advanced FEMA Building Science Concepts (E2460). In addition, he assisted in the development of materials and been an instructor for numerous field training workshops, webinars and online seminars for Substantial Damage estimation, structural flood-proofing, NFIP technical bulletins, coastal construction, protecting manufactured homes from flooding, and benefit-cost analysis (BCA). Mr. Squerciati received his undergraduate and graduate degrees in Civil Engineering from the Cooper Union with a major in Structural Engineering and a minor in Geotechnical Engineering. He has taken additional course work on engineering for extreme winds at Texas Tech University. Mr. Squerciati is a licensed Professional Engineer in the Commonwealth of Virginia and the State of Louisiana and is a Certified Floodplain Manager.

Webinar Information

Day One: Wednesday, May 25, 2022
11:00 am - 2:00 pm CDT (including a 30-min. break)

Day Two: Thursday, May 26, 2022
11:00 am - 3:00 pm CDT (including a 30-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
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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.

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)

Additional Learning

New Developments in Small Wind Energy Systems
- Thurs, April 28, 2022 | 8:30 am - 3:30 pm CDT

IBC Significant Changes: Administration and Building Planning
- Fri, April 29, 2022 | 11:00 am - 3:30 pm CDT

Construction Cost Estimating and Value Engineering
- Fri, April 29, 2022 | 8:30 am - 3:20 pm CDT

HVAC Primer for Design Professionals
- Tues, May 3, 2022 | 8:30 am - 4:30 pm CDT

2020 National Electrical Code Update
- Fri, May 6, 2022 | 8:30 am - 4:00 pm CDT

IBC Significant Changes: Fire Protection and Means of Egress
- Fri, May 6, 2022 | 11:00 am - 3:30 pm CDT

Design Considerations and Mixed Occupancy Options for Speculative Buildings
- Tues, May 10, 2022 | 9:00 am - 3:40 pm CDT

For more information and other online learning opportunities visit:
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Continuing Education Credit Information

This webinar is open to the public and offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to licensed architects in all states.
The American Institute of Architects Continuing Education System has approved this course for 6.0 LU | HSWs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

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This webinar has been approved by the Association of State Floodplain Managers for 6.0 CECs for floodplain managers.

The International Code Council has approved this event for .6 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).

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

Flood-Resistant Design and Construction
Live, Interactive Webinar - Wednesday, May 25 and Thursday, May 26, 2022

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Complete the entire form. Attach duplicates if necessary.		Email: _____
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		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.
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() 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.
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