

Agenda

Floods, Floodplains and Floodplain Development Understanding floodplain management system Role of National Flood Insurance Program (NFIP) Impact of recent storms, flood damage and losses Best building practices for flood-prone areas Role of building elevation	<i>N. Hingorany</i>
Site Design for Elevated Homes Soils and topography Reviewing the flood risks Utilities Egress Stormwater management	<i>N. Hingorany</i>
Designing and Building a New-Construction Elevated Home Determining design flood elevation • Minimum required by NFIP • Current method from ASCE 7-22 Determining structure design: • Elevated with ground-level enclosure for coastal locations • Elevated with solid-foundation walls for riverine locations Compliance with International Residential Code, ASCE 7-22, and ASCE 24-14 Compliance with local regulations Foundation design Protection of mechanical, electrical and plumbing systems/equipment Use of flood-resistant materials Resources	<i>B. Coulbourne</i>
Elevating an Existing Home Determining design flood elevation • Minimum required by NFIP • Current method from ASCE 7-22 Evaluating existing structure and soils Determining structure design: • Elevated on open foundation for coastal locations • Elevated with solid-foundation walls for riverine locations Compliance with International Residential Code, ASCE 7-22, and ASCE 24-14 Compliance with local regulations Foundation design Protection of mechanical, electrical and plumbing systems/equipment Use of flood-resistant materials Resources	<i>B. Coulbourne</i>

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Elevating Homes for Flood Resistance

Live, Interactive Webinar - Tuesday, June 25, 2024

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HalfMoon Education Inc.
PO Box 278
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Learning Objectives

- You'll be able to:**
- Discuss** best building practices for flood-prone areas and consider the impact of building elevation.
 - Review** flood risks for building sites and consider soils and topography.
 - Explore** the process for designing and building a new-construction elevated home in compliance with the International Residential Code, ASCE 7-22 and ASCE 24-14.
 - Examine** the process for elevating an existing home.
 - Protect** mechanical, electrical and plumbing systems/equipment, and use flood-resistant materials.



HalfMoon Education Inc., Your LIVE Education Leader Presents Elevating Homes for Flood Resistance

Live, Interactive Webinar - Tuesday, June 25, 2024



- Explore** best building practices for flood-prone areas
- Study** aspects of site design for elevated homes
- Learn** about designing and building a new-construction elevated home
- Examine** elevating an existing home
- Discuss** foundation design as well as protection of mechanical, electrical and plumbing systems/equipment
- Study** code compliance as well as use of flood-resistant materials

Continuing Education Credits

Professional Engineers 6.0 PDHs	Architects 6.0 HSW CE Hours 6.0 AIA LU HSW
	International Code Council .6 CEUs (Building)

AIA
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Webinar Information

Online - Tuesday, June 25, 2024

Log into Webinar: 8:30 - 9:00 am CDT

First Session: 9:00 - 11:00 am CDT

Break: 11:00 - 11:30 am CDT

Second Session: 11:30 am - 1:30 pm CDT

Break: 1:30 - 2:00 pm CDT

Third Session: 2:00 - 4:00 pm CDT

Tuition

\$339 for individual registration.

\$309 for two or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

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Faculty

Neal K. Hingorany, MS, PLS

President and Soil Evaluator at Narragansett Engineering Inc., in Portsmouth, RI
Mr. Hingorany is the point person for new clients, handling proposals, project feasibility and coordination. NEI is a civil and survey firm, with a 35-year history in Rhode Island, providing consulting services to commercial, residential and institutional / industrial clients in Rhode Island and Massachusetts. General areas of expertise are project planning and management, site feasibility assessments, civil engineering, stormwater design, wastewater systems, foundations, framing and structural design, soil evaluations and soil science, environmental permitting, subdivisions, LID and conservation design, and land surveying. NEI was started by Kamal Hingorany, PE, PLS, and Bob Mastin, a local entrepreneur in Middletown RI in 1985. The firm's name was an homage to the indigenous Native American tribes, the Narragansett. The second generation has now taken the reigns, with Neal Hingorany, MS, PLS officially becoming the firm's president in 2018.

William Coulbourne, P.E.

Consulting Structural Engineer with Coulbourne Consulting
Mr. Coulbourne has a Civil Engineering degree from Virginia Tech and a master's degree in Structural Engineering from the University of Virginia. He has more than 40 years of experience in the engineering and construction business. Most of this experience has been focused on buildings, with the last 15 years exclusively devoted to engineering solutions to the problems created by high wind and flood events including hurricanes and tornadoes. Mr. Coulbourne is actively engaged in guidelines and standards used by engineering professionals and builders for improving the performance of buildings in natural hazard environments, and he has been part of damage assessment teams for many major high wind and flood events. He teaches high-wind and flooding design concepts for design professionals through workshops and webinars, and he has authored several high-wind design guides including the Federal Emergency Management Agency's (FEMA) *Coastal Construction Manual*. Mr. Coulbourne is active in the engineering standards work of the American Society of Civil Engineers (ASCE) 7 minimum design loads on buildings and other structures, and ASCE 24 Flood resistant design and construction. He is a licensed professional engineer in Delaware, Virginia, and Maryland, and he is a certified structural engineer and certified building inspection engineer. Mr. Coulbourne has taught as an adjunct faculty member in the Civil Engineering Department of the University of Delaware.

Additional Learning

Residential and Small Commercial

Timber Frame Design and Construction

- Tuesday, June 11, 2024 | 9:00 am - 4:30 pm CDT

Soils in Construction

- Tuesday, June 11, 2024 | 8:30 am - 5:00 pm CDT

Accessible Trail Design, Construction, and Operation

- Friday, June 14, 2024 | 9:00 am - 4:30 pm CDT

Scaffold Design and Use in Construction

- Friday, June 14, 2024 | 9:00 am - 12:15 pm CDT

Trenching and Excavation Safety in Construction

- Friday, June 14, 2024 | 1:00 - 4:15 pm CDT

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and 6.0 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), 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 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

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).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
6.0 HSW LUs (AIA)

Designing to Withstand Tornadoic Loads on Buildings

- Monday, June 17, 2024 | 9:00 am - 4:00 pm CDT

Mastering RFQ & RFP Responses: Crafting Winning Proposals

- Tuesday, June 18, 2024 | 1:00 - 3:00 pm CDT

Brownfields Assessments, Grants and Redevelopment Opportunities

- Tuesday, June 25, 2024 | 10:00 am - 12:00 pm CDT

Generation Interconnection under the RTO Model and Changes Coming from Order 2023

- Tuesday, June 25, 2024 | 2:00 - 4:00 pm CDT

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