

Agenda

Presented by Robin M. Closs, S.E., P.E.

Understanding Structural Loads

Types of structural loads
General structural integrity
Classifying buildings and structures
Modifying and expanding existing structures

Dead Loads and Soil Loads

Weight of materials and structure
Soil loads

Live Loads

Uniformly-distributed loads
Concentrated loads
Required live loads
Impact loads

Snow and Ice Loads

Calculating snow and ice loads
Unbalanced, drifting and sliding loads

Wind Loads

Wind speed, importance factor, exposure, enclosure
Allowed procedures
Basic definitions and requirements
Main wind force resisting system

Earthquake Loads

Scope and applicability
Seismic ground motion values/geotechnical investigation
Seismic design category
Design criteria for bearing walls/building frame systems
Design requirements for non-structural components

Examples

Application of loads
Design shortcuts

Structural Design Loads under the ASCE 7 Standard
Amherst, NY - Friday, December 14, 2018



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Learning Objectives

You'll be able to:

Review the concept of structural integrity and discuss the effects of different types of structural loads.

Learn about working with different types of live loads, including uniformly-distributed loads, concentrated loads and impact loads.

Get tips on calculating snow and ice loads.

Consider wind loads, and consider main wind force resisting systems.

Explore earthquake loads, including design criteria for bearing walls and building frame systems.



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Classify structures and review types of structural loads

Examine dead loads and all types of live loads

Calculate snow and ice loads, considering the effect of sliding and drifting

Discuss wind loads and main wind force resisting systems

Explore seismic design of structural and non-structural building components

Continuing Education Credits

Professional Engineers

7.0 Continuing Ed. Hours

Architects

7.0 HSW Continuing Ed. Hours

7.0 AIA HSW Learning Units

International Code Council

.7 CEUs (Building)

Contractors

Non-Credit Continuing Ed.



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Faculty

Robin M. Closs, S.E., P.E.
Robin M. Closs, S.E., P.E., has 15 years of experience as a structural engineer designing and analyzing anything from pipes to multistory buildings in fields such as commercial, power, government, institutional, nuclear, industrial, and residential. She traveled to Long Island in the aftermath of Hurricane Sandy as part of a Code Enforcement Disaster Assistance Response Team. Her engineering knowledge in timber, concrete, steel, masonry, aluminum, and light-gauge metal has helped her design new buildings, complete renovations and additions, demolish existing structures, produce mechanical platforms, and design appropriate repairs to roofs, walls, floors, and spillways. Ms. Closs is a past president of The Engineering Society of Buffalo and currently creates, writes, and edits their monthly newsletter. She also regularly spends time tutoring and greatly enjoys assisting young minds to see the benefits of engineering. She has also acted as the principal coordinator for 80-person volunteer teams, judged inventions, and mentored winners of engineering city competitions. Ms. Closs graduated from the Milwaukee School of Engineering with a BS degree in Architectural Engineering with a Structural Specialty. She is a licensed professional engineer in multiple states and as a structural engineer in Illinois, and she is certified as a NCEES Model Law Structural Engineer. Her goal is to meet client needs in a positive and timely fashion.

Here’s what past attendees had to say about the program and presenter:

- “Great presenter. Dynamic and helpful; engaging.”
- “Outstanding seminar...superb teacher!”
- “Good audience participation!”
- “Great energy. Kept the subject matter interesting.”
- “Very informative and entertaining.”

Seminar Information

Buffalo Marriott - Niagara
1340 Millersport Hwy.
Amherst, NY 14221
(716) 689-6900

Tuition
\$279 for individual registration
\$259 for three or more registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual.
Registration does not include a copy of the ASCE Standard.

- 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

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar. You may also send another person to take your place.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Continuing Education Credit Information

This seminar is open to the public and offers up to 7.0 continuing education hours to professional engineers and 7.0 HSW continuing education hours to architects in all states, except Florida architects.

HalfMoon Education is an approved continuing education provider for New York engineers (NYSED Sponsor No. 35).

HalfMoon Education is deemed a New York-approved continuing education provider for architects via its affiliation with the American Institute of Architects.

This event is approved by the American Institute of Architects for 7.0 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES. Courses approved by the AIA qualify for New Jersey architects.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building.

This event offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any state with a continuing education requirement for contractors.

Additional Learning

Webinar Series

Geothermal Heating and Cooling

- **Thermodynamic Basics of Geothermal Systems**
Thurs., Nov. 1, 2018, 11:00 AM - 12:00 PM CDT
- **Understanding Earth Loop Systems**
Thurs., Nov. 1, 2018, 12:30 - 2:00 PM CDT
- **Choosing and Designing Geothermal Systems**
Fri., Nov. 2, 2018, 11:00 AM - 12:00 PM CDT
- **Evaluating and Maintaining Geothermal Systems**
Fri., Nov. 2, 2018, 12:30 - 2:30 PM CDT

Cogeneration System Principles and Practice

- **Understanding the Benefits of Cogeneration**
Thurs., Nov. 8, 2018, 11:00 AM - 12:30 PM CST
- **Laws, Regulations and Building Codes Impacting Cogeneration**
Thurs., Nov. 8, 2018, 1:00 PM - 2:30 PM CST
- **Examining Cogeneration Technologies**
Fri., Nov. 9, 2018, 11:00 AM - 12:30 PM CST
- **Moving to Cogeneration: Analysis, Modeling and Case Studies**
Fri., Nov. 9, 2018, 1:00 - 2:30 PM CST

Shallow Foundation Design and Construction

- **Evaluating Building Sites**
Wed., Nov. 14, 2018, 11:00 AM - 12:30 PM CST
- **Shallow Foundation Design**
Wed., Nov. 14, 2018, 1:00 - 2:30 PM CST
- **Special Considerations in Foundation Design and Construction**
Thurs., Nov. 15, 2018, 11:00 AM - 12:30 PM CST
- **Soil Improvement and Foundation Diagnosis and Repair**
Thurs., Nov. 15, 2018, 1:00 - 2:30 PM CST

Roadway Design

- **Roadway Design**
Thurs., Nov. 29, 2018, 11:00 AM - 12:30 PM CST
- **Roadway Design Process**
Thurs., Nov. 29, 2018, 1:00 - 2:00 PM CST
- **Typical Roadway Sections and Alignment**
Fri., Nov. 30, 2018, 11:00 AM - 1:30 PM CST
- **Intersections, Drainage and Pedestrian-Bicycle Facilities**
Fri., Nov. 30, 2018, 2:00 - 3:30 PM CST

For more information visit:
www.halfmoonseminars.org/webinars/

Registration

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Complete the entire form. Attach duplicates if necessary.		
		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 seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

Checks: Make payable to HalfMoon Education Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*

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