

Agenda

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

Wind Load Design

- Brief history of ASCE 7 wind design
- Wind velocity
- Effects of terrain on buildings
- Main wind force resisting system
- Directional and envelope procedures
- Simplified procedure
- Low rise buildings
- Open buildings
- Minimum wind loading
- Wind pressure design
- Components and cladding
- Building appurtenances

Snow and Ice Load Design

- Snow loading and building code
- Ground snow load
- Flat and sloped roof snow load
- Unbalanced, drift, and sliding snow
- Rain on snow surcharge
- Existing roof requirements
- Ice load
- Ice on building appurtenances

Wind, Snow, and Ice Design Loads
Rochester, NY - Friday, June 22, 2018



Halfmoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

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Learning Objectives

You'll be able to:

- Define** ASCE 7's requirements for wind and snow loads.
- Explore** directional, envelope and simplified wind load design procedures.
- Calculate** snow loads, ice loads and rain-on-snow surcharge.
- Understand** how to handle unbalanced, drifted and sliding snow.
- Examine** design requirements for components, cladding and building appurtenances.



Wind, Snow, and Ice Design Loads

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Review ASCE 7's requirements for wind and snow loads

Explore main wind force resisting systems

Examine directional, envelope and simplified wind load design procedures

Consider requirements for components, cladding, and building appurtenances

Receive design guidance for loads due to snow, rain and ice

Discuss unbalanced and drifted snow loads on flat and sloped roofs

Continuing Education Credits

Professional Engineers

6.5 Continuing Ed. Hours

Architects

6.5 HSW Continuing Ed. Hours
6.5 AIA HSW Learning Units

International Code Council

.65 CEUs (Building)

Contractors

Non-Credit Continuing Ed.



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Faculty

Robin M. Closs, SE, PE, 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 engineering in multiple states and a licensed 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.

Seminar Information

Hilton Garden Inn Rochester Downtown 155 East Main Street Rochester, NY 14604 (585) 232-5000	Registration 8:00 - 8:30 am Morning Session 8:30 am - 12:00 pm	Lunch (On your own) 12:00 - 1:00 pm Afternoon Session 1:00 - 4:30 pm
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Tuition
\$279 for individual registration
\$259 for three or more simultaneous registrations.

Each registration includes a complementary continental breakfast and printed seminar manual. Registration does not include a copy of the ASCE 7 Standard.

How to Register
• Visit us online at www.halfmoonseminars.org
• Mail-in or fax the attached form
• Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar (CDT), 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 or the CD/manual package. You may also send another person to take your place.

Additional Learning

Webinar Series

Community Solar and Rooftop Solar
• **Community Solar**
Wed., May 2, 2018, 11:00 AM - 2:15 PM CDT
• **Design Your Solar Roof**
Thurs., May 3, 2018, 11:00 AM - 2:15 PM CDT

Complying with Fire and Building Codes
• **Introduction to Fire Protection and Life Safety Design**
Thurs., May 3, 2018, 11:00 AM - 12:30 PM CDT
• **Occupancy Classifications**
Thurs., May 3, 2018, 1:00 - 2:30 PM CDT
• **Means of Egress**
Fri., May 4, 2018, 11:00 AM - 1:00 PM CDT
• **Fire Protection Features and Occupancy Exercises**
Fri., May 4, 2018, 1:30 PM - 3:30 PM CDT

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

Continuing Education Credit Information

This seminar is open to the public and offers up to 6.5 continuing education hours to professional engineers and 6.5 HSW continuing education hours to architects in all states, excluding 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 6.5 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, 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 .65 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.

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.

Pavement Design
• **Principles of Pavement Design**
Thurs., May 10, 2018, 11:00 AM - 12:30 PM CDT
• **Flexible Pavement Design**
Thurs., May 10, 2018, 1:00 - 2:30 PM CDT
• **Rigid Pavement Design**
Fri., May 11, 2018, 11:00 AM - 12:30 PM CDT
• **Pavement Drainage and Maintenance**
Fri., May 11, 2018, 1:00 PM - 2:30 PM CDT

Foundations in Cold Regions
• **Introduction to Cold Regions Foundations**
Thurs., May 17, 2018, 11:00 AM - 12:30 PM CDT
• **Shallow Foundation Design in Cold Regions**
Thurs., May 17, 2018, 1:00 - 2:30 PM CDT
• **Deep Foundation Design in Cold Regions**
Fri., May 18, 2018, 11:00 AM - 12:30 PM CDT
• **Foundation Construction in Cold Regions**
Friday, May 18, 2018, 1:00 - 2:00 PM CDT

Registration

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How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066	Name: _____ Occupation: _____ Email: _____ Phone: _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Name: _____ Occupation: _____ Email: _____ Phone: _____
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.
() **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.
Credit Card: *Mastercard, Visa, American Express, or Discover*
Credit Card Number: _____
Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
Billing Address: _____
City: _____ State: _____ Zip: _____ Signature: _____
Email: _____