

# Agenda

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

## **Understanding Structural Loads**

- The right code for New York
- Types of structural loads
- General structural integrity
- Classifying buildings and structures

## **Earthquake Loads**

- Scope and applicability
- Seismic ground motion values
- Calculating seismic loads
- Seismic design category for New York

## **Dead Loads**

- Weight of materials and structure

## **Live Loads**

- Uniformly-distributed loads
- Concentrated loads
- Required live loads
- Live load reduction
- Impact loads

## **Soil Loads**

- Geotechnical investigation
- Retaining wall calculations
- Overturning, sliding, bearing

## **Wind Loads**

- Allowed procedures
- Basic definitions and requirements
- Wind speed, importance factor, exposure, enclosure
- Main wind force resisting system calculations
- Wind on other structures

## **Snow and Ice Loads**

- Calculating snow drift and ice loads
- Flat roof, sloped roof, unbalanced, sliding snow

## **Load Combinations**

## **Design Shortcuts**

- Rules of thumb
- Modifying and expanding existing structures

## **Can't Attend? Order the Webinar as a Self-Study Package!**

Recordings of this webinar are available for purchase. See course listing online 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.

## **New York State Structural Design Loads under the ASCE 7 Standard**

Live, Interactive Webinar - Wednesday, May 4, 2022

NON-PROFIT  
U.S. POSTAGE PAID  
EAU CLAIRE, WI  
PERMIT NO. 2016

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



## Learning Objectives

### ***You'll be able to:***

***Explore*** different types of structural loads and general structural integrity.

***Calculate*** the weight of materials and structures.

***Discuss*** application of live loads such as concentrated, impact and required live loads.

***Understand*** snow drift and other weather load calculations.

***Consider*** load combinations and explore design shortcuts.

***Get tips on*** modifying and expanding existing structures.



## **HalfMoon Education Live Webinars**

# **New York State Structural Design Loads under the ASCE 7 Standard**

*Live, Interactive Webinar - Wednesday, May 4, 2022*



***Understand*** types of structural loads, including live loads, dead loads and soil loads

***Explore*** basic wind load requirements

***Learn*** wind force resisting system calculations

***Calculate*** snow drift and ice loads

***Apply*** what you have learned to the design of existing buildings as well as new buildings

## **Continuing Education Credits**

### ***Professional Engineers***

7.0 PDHs

### ***International Code Council***

.7 CEUs (Building)

### ***Architects***

7.0 HSW CE Hours

7.0 AIA LU | HSW

**AIA**  
Continuing  
Education  
Provider



# Faculty

**Robin M. Closs, S.E., P.E.** *President of The Engineering Society of Buffalo*

Ms. 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 the 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, is a licensed structural engineer in Illinois, and is certified as a NCEES Model Law Structural Engineer. Her goal is to meet client needs in a positive and timely fashion.

# Webinar Information

Log into Webinar 8:00 - 8:30 am EDT	Break 11:45 am - 12:45 pm EDT
Morning Session 8:30 - 11:45 am EDT	Afternoon Session 12:45 - 5:00 pm EDT

**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.***

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- Visit us online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org)
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

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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.

**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.

# Additional Learning

**Practical Site Engineering**  
- Fri, April 1, 2022 | 8:30 am - 4:30 pm CDT

**Adopting and Complying with the Zero Code 2.0**  
- Tues, April 5, 2022 | 8:30 am - 4:30 pm CDT

**International Building Code 2021**  
- Tues, April 12, 2022 | 8:00 am - 4:00 pm CDT

**IBC Building Classification, Occupancy and Mixed Occupancies**  
- Wed, April 13, 2022 | 9:00 am - 4:30 pm CDT

**Designing for Fire Protection**  
- Tues, April 19, 2022 | 9:00 am - 4:00 pm CDT

**Structural Forensic Engineering**  
- Tues, April 19, 2022 | 9:00 am - 3:50 pm CDT

**Managing Construction with AIA Document A201: General Conditions**  
- Thurs, April 21, 2022 | 9:00 am - 4:30 pm CDT

**Designing to Withstand Tornadoic Loads on Buildings**  
- Tues, April 26, 2022 | 9:00 am - 4:00 pm CDT

**Designing and Constructing a Net-Zero Energy Home**  
- Tues, April 26, 2022 | 8:30 am - 1:00 pm CDT  
- Wed, April 27, 2022 | 8:30 am - 1:30 pm CDT

**Designing to Withstand Tornadoic Loads on Buildings with ASCE 7-22**  
- Tues, April 26, 2022 | 9:00 am - 4:00 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

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

**IBC Significant Changes: Accessibility, Systems, and Materials**  
- Fri, May 13, 2022 | 11:00 am - 3:30 pm CDT

For more information and other online learning opportunities visit: [www.halfmoonseminars.org](http://www.halfmoonseminars.org)

**Continuing Education Credit Information**  
This webinar is open to the public and offers 7.0 PDHs to professional engineers, and 7.0 HSW continuing education hours to architects licensed in New York.

Engineers and architects seeking continuing education credit in other states will be able to claim the hours earned at this webinar, in most cases. Refer to specific state rules to determine eligibility.

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).

The American Institute of Architects Continuing Education System has approved HalfMoon Education as a sponsor of continuing education (Sponsor No. J885). This course is approved for 7.0 LU | HSW. Only full participation is reportable to the AIA CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

**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)

# Registration

**New York State Structural Design Loads under the ASCE 7 Standard**  
Live, Interactive Webinar - Wednesday, May 4, 2022

<b>How to Register</b>		<b>Registrant Information</b> Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____  <b>Additional Registrants:</b> Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____  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.
<b>Online:</b> <a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>		
<b>Phone:</b> 715-835-5900		
<b>Fax:</b> 715-835-6066	<b>Code:</b>	
<b>Mail:</b> HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		
<b>Complete the entire form.</b> Attach duplicates if necessary.		
<b>Tuition</b> ( ) <b>I will be attending the live webinar.</b> Single Registrant - <b>\$319.00</b> . Two or more registrants from the same company registering at the same time - <b>\$289.00</b> each. ( ) <b>I am not attending.</b> Please send me the webinar recording: <input type="checkbox"/> Streamable MP4 Video/PDF Manual for <b>\$329.00</b> . <input type="checkbox"/> USB Video/PDF Manual for <b>\$329.00</b> .  <b>Checks:</b> Make payable to HalfMoon Education Inc. <b>Credit Card:</b> <i>Mastercard, Visa, American Express, or Discover</i> Credit Card Number: _____  Expiration Date: _____ CV2 Code: _____  Cardholder Name: _____  Billing Address: _____  City: _____ State: _____ Zip: _____  Signature: _____  Email: _____		