

Agenda

Understanding Structural Loads Types of structural loads General structural integrity Classifying buildings and structures Modifying and expanding existing structures	<i>P. Conlon</i>
Dead Loads, Soil Loads and Hydrostatic Pressure Weight of materials and structure Soil loads and hydrostatic pressure	<i>P. Conlon</i>
Live Loads Uniformly-distributed loads Concentrated loads Required live loads Impact loads	<i>T. Welt</i>
Flood Loads Design loads Loads on breakaway walls Hydrostatic and hydrodynamic loads Wave loads	<i>T. Welt</i>
Rain and Snow Loads Rain loads on roofs Snow loads on roofs	<i>T. Welt</i>
Wind Loads Wind speed, importance factor, exposure, enclosure classifications Allowed procedures (methods 1, 2 and 3) Basic definitions and requirements Main wind force resisting system vs. components and cladding	<i>T. Welt</i>

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Structural Design Loads under the ASCE 7-16 Standard

Live, Interactive Webinar - Tues., December 8, 2020



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

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Learning Objectives

You'll be able to:

Use the ASCE 7 Standard to design for structural loads on new and existing buildings.

Design for dead loads, soil loads and hydrostatic pressure.

Consider live loads, including concentrated loads and impact loads.

Design for flood loads, including hydrostatic and hydrodynamic loads.

Use ASCE 7 to design for rain and snow loads on roofs.

Learn to calculate wind loads and understand the effect of main wind force resisting systems.



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HalfMoon Education Online Learning

Structural Design Loads under the ASCE 7-16 Standard

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Use the ASCE 7 standard to design for all types of structural loads

Calculate structural loads and explore their impact on structural integrity

Quantify dead loads and live loads, including concentrated live loads and impact loads

Design for flood loads, including loads on breakaway walls

Design for rain and snow loads on roofs

Consider wind loads and the use of main wind force resisting systems

Continuing Education Credits

Professional Engineers

7.0 PDHs

Architects

7.0 HSW CE Hours

AIA

7.0 LU|HSW

International Code Council

.7 CEUs (Building)



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Faculty

Patrick J. Conlon, P.E. *Founder and Managing Principal of Conlon Engineering, LLC*
Mr. Conlon is a licensed professional engineer with 20 years of high-profile structural engineering experience. He has lent his expertise and creativity to large, challenging new high-profile construction projects including the iconic Yankee Stadium, the 75-story tall One57 in Manhattan, and the new 22,000 sf steel-framed column-free Blessed Kateri Church in Lagrangeville, New York as well as numerous other projects of various scales. The owners, architects, contractors, and property managers with whom he collaborates seek him out as a project partner because of his work ethic and focused client service.

As founder and managing principal of Conlon Engineering, LLC, in Brookfield, Connecticut, Mr. Conlon has created a culture that is highly client-focused and disciplined, making it easy for colleagues to recommend him. He takes great pride in the firm’s ability to address structural challenges for diverse clients in the areas of new construction, renovation and structural rehabilitation of existing structures in a variety of categories including commercial, residential, industrial, office, school, religious, historic and recreational buildings; adaptive reuse projects; LEED accredited projects; peer reviews of other engineers’ work; and feasibility studies.

Mr. Conlon is a registered professional engineer in Connecticut, New York, New Jersey and Massachusetts. He has BS and MS degrees in Civil Engineering from Manhattan College, and he is a member of the American Society of Civil Engineers, the Structural Engineers Coalition (CT), the International Code Council and the American Institute of Steel Construction.

Travis Welt *Assistant Professor at the University of St. Thomas*
Mr. Welt has spent his professional career working on projects ranging from single-family residential design to design of floating offshore production facilities, specifically focused on steel stiffened plate hull design. As a structural design engineer (Shell International Exploration and Production), he developed a risk-based inspection philosophy for the largest (upon installation) floating production facility in the Gulf of Mexico, and led many brownfield projects including subsea developments and flowline pull-ins (to existing floating production facilities). Mr. Welt’s research career has focused specifically on seismic behavior of reinforced concrete structural walls. Through large-scale experimentation, he has isolated inconsistencies with classical analytical models for confined concrete as compared with modern design, and influenced changes in the building code accordingly. Mr. Welt is a member of ACI 369 (Seismic Rehabilitation of Existing Concrete Frame Buildings) and ACI 374 (Performance-Based Design of Concrete Buildings), and is a registered professional engineer.

Webinar Information

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

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\$299 for individual registration
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Continuing Education Credit Information
This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in all states.

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The American Institute of Architects Continuing Education System has approved this course for 7.0 LU|HSW (Sponsor No. J885). 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).

Additional Learning

2018 International Existing Building Code: Work Area Compliance Method
- Fri., December 4, 2020 | 10:00 am – 2:30 pm CST

Structural Forensic Engineering
- Fri., December 4, 2020 | 7:30 am - 3:30 pm CST

AIA Contract Document Workshop
- Mon., December 7, 2020 | 9:00 am - 5:00 pm CST

IBC International Building Code 2021
- Mon., December 7, 2020 | 8:30 am - 4:20 pm CST

Construction Cost Estimating
- Wed., December 9, 2020 | 8:30 am - 3:50 pm CST

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Registration

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How to Register Online: www.halfmoonseminars.org Phone: 715-835-5900 Fax: 715-835-6066 Code: Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278 Complete the entire form. Attach duplicates if necessary.	Registrant Information Name: _____ Company/Firm: _____ Address: _____ City:_____ State: _____ Zip_____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: 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.
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