

Agenda

*Presented by Susan Jorgensen, P.E., S.E., F.SEI, LEED AP
and Emily Guglielmo, P.E., S.E., F.SEI*

Understanding Structural Codes and Standards

Building Codes
Structural Standards
Code Development

Structural Loads and Design Procedures

Types of Loads
Classifying Buildings and Structures
Design Procedures
Load Combinations

Dead Loads, Soil Loads and Hydrostatic Pressure

Weight of materials and structure
Soil loads and hydrostatic pressure

Live Loads

Uniformly-distributed loads
Concentrated Loads
Specialty Loads
Impact Loads

Flood, Rain, Ice, Snow Loads

Floods and Tsunami Loads
Calculating Rain and Ice Loads
Ground Snow Loads
Roof Loads: Flat, Drifts, Unbalanced

Wind Loads

Wind Speed, Exposure, Topographic Effects
Velocity Pressure, Gusts
Enclosure Classification, Internal Pressure
Wind Load Design Procedure
Main Wind Load Resisting System
Appurtenances and Other Structures
Components and Cladding

Seismic Loads

Design Criteria and Categories
Seismic Ground Motion
Seismic Force Resisting Systems
Load Effects and Combinations
Lateral Force Design Procedures
Diaphragms
Drift and Deformation
Nonstructural Components
Material-Specific Design
Non-building Structures

Structural Design Loads Under the ASCE 7 Standard

Greenwood Village, CO - Wednesday, October 2, 2019



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Learning Objectives

You'll be able to:

Enhance your ability to calculate rain, ice, and snow loads on roofs.

Understand building codes, structural standards, and code development.

Learn definitions and requirements related to wind loads.

Discuss soil loads and hydrostatic pressure.

Apply design requirements for non-structural components of a building.

Gain an appreciation for the depth of structural design knowledge and its application for structural integrity.



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Understand basics of structural codes and standards

Identify dead loads, soil loads, and hydrostatic pressure

Examine ways to design for different types of live loads

Learn how to plan for flood loads

Explore how to prepare for wind and earthquake loads

Discuss rain, ice, and snow loads

Continuing Education Credits

Professional Engineers

7.0 PDHs

Architects

7.0 HSW CEHs

7.0 AIA LU|HSW

International Code Council

.7 CEUs (Building)

Contractors

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Faculty

Susan Jorgensen, P.E., S.E., F.SEI, LEED AP
Senior Project Manager at Integral Engineering Co & Quality Control Manager at Studio NYL Structural Engineers

Ms. Jorgensen graduated from the South Dakota School of Mines and Technology with a bachelor’s degree in Civil Engineering. She has 30 years of experience in structural design and project management. Ms. Jorgensen has served as a managing principal and director of operations for an architectural and engineering office. She currently is a senior project manager for Integral Engineering in Centennial, Colorado, and a quality control manager for Studio NYL in Boulder, Colorado. Ms. Jorgensen serves as the vice president of the National Council of Structural Engineers Associations and has been a speaker at the SEI Structures Conference. A licensed professional engineer in 16 states, Ms. Jorgensen has earned a number of awards and recognitions including the W. Gene Corley Award from SEI, the Service Award from NCSEA, and she is a Fellow in SEI and ASCE.

Emily Guglielmo, P.E., S.E., F.SEI Principal at Martin/Martin, Inc.

Ms. Guglielmo earned her bachelor’s degree in Civil Engineering from UCLA, and her master’s degree in Structural Engineering from UC Berkeley. She has 15 years of structural engineering experience, all with Martin/Martin, Inc. Ms. Guglielmo began her career in their Denver, Colorado, area office, and is currently a principal with the firm, managing their San Francisco Bay Area office. She has lectured on wind and seismic provisions across the nation. Ms. Guglielmo is the vice chair for the ASCE 7 seismic committee and a voting member of the ASCE 7 wind, seismic, and main committee. A licensed structural engineer, Ms. Guglielmo has received a number of awards, including SEI Fellow and the Susan M. Frey NCSEA Educator Award, for effective instruction for practicing structural engineers.

Seminar Information

Courtyard Denver Tech Center
6565 South Boston Street
Greenwood Village, CO 80111
(303) 721-0300

Registration
8:00 - 8:30 am

Morning Session
8:30 - 11:45 am

Lunch (On your own)
11:45 am - 12:45 pm

Afternoon Session
12:45 - 5:00 pm

Tuition
\$289 for individual registration
\$269 for three or more registrations.

Included with your registration: *Complimentary continental breakfast and printed seminar manual. Registration does not include a copy of the ACE 7 itself.*

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

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 or the self-study package. 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.

Additional Learning

Webinar Series

Commercial Solar Peaker Batteries

- **Commercial Solar Peaker Batteries, Part I**
Wed., September 4, 2019, 11:00 AM - 2:15 PM CDT
- **Commercial Solar Peaker Batteries, Part II**
Thurs., September 5, 2019, 11:00 AM - 2:15 PM CDT

Commercial Provisions of the International Energy Conservation Code

- **Commercial Provisions of the International Energy Conservation Code**
Wed., September 11, 2019, 11:00 AM - 1:00 PM CDT
- **IECC Provisions for Commercial Building Envelopes**
Wed., September 11, 2019, 1:30 - 4:00 PM CDT
- **IECC Provisions for Commercial Building HVAC Systems**
Thurs., September 12, 2019, 11:00 AM - 12:00 PM CDT
- **IECC Provisions for Commercial Building Lighting**
Thurs., September 12, 2019, 12:30 - 2:00 PM CDT

International Building Code

- **Building Code, Building Classification and Special Requirements**
Thurs., September 12, 2019, 11:00 AM - 12:30 PM CDT
- **Mixed Use Buildings, Construction Types and Locations**
Thurs., September 12, 2019, 1:00 - 2:30 PM CDT
- **Allowable Heights/Areas and Means of Egress**
Fri., September 13, 2019, 11:00 AM - 12:30 PM CDT
- **Fire Rated Construction and Fire Protection Systems**
Fri., September 13, 2019, 1:00 - 2:30 PM CDT

Tree Preservation

- **Keys for Success in Tree Preservation**
Tues., September 17, 2019, 11:00 AM - 1:00 PM CDT
- **Tree Root Morphology and Patterns**
Tues., September 17, 2019, 1:30 - 3:30 PM CDT
- **Trees as Design Elements and Construction Strategies**
Wed., September 18, 2019, 11:00 AM - 1:00 PM CDT
- **Tree Protection and Post Construction**
Wed., September 18, 2019, 1:30 - 3:30 PM CDT

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

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$269. 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.

Registration

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How to Register	Registrant Information
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Complete the entire form. Attach duplicates if necessary.	Occupation: _____
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	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 - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

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☐ CD/Manual Package for **\$289.00**.

(S&H included. Please allow five weeks from seminar date for delivery)

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