

Agenda

Presented by Eugene H. Brislin Jr., P.E.

Examining Basic Principles of Seismic Design

Earthquake characteristics
Reliance on inelastic response

Building Codes Approach to Seismic Analysis

International Building Code
ASCE 7 seismic provisions
Three allowable analysis methods

Resisting Lateral Force

Building elements
- Diaphragms
- Shear walls
- Braced frames
- Moment-resisting frames
Energy-dissipating devices
Base isolation

Building Codes Approach to Seismic Design

Steel buildings
Concrete buildings
Wood buildings
Masonry buildings

Analysis and Design of Building

Design Example 1 – 45 minutes
Design Example 2 – 45 minutes

Non-Structural Elements

Architectural elements (parapets, curtain walls, etc.)
Mechanical, electrical and plumbing equipment

Seismic Design of Buildings
Columbia, SC - Friday, January 25, 2019

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PO Box 278
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Learning Objectives

You'll be able to:

Understand earthquake characteristics and seismic response.

Review seismic provisions in the International Building Code and ASCE 7.

Discuss lateral force-resisting building elements, including diaphragms and shear walls.

Examine seismic design of steel, concrete, wood, and masonry buildings.

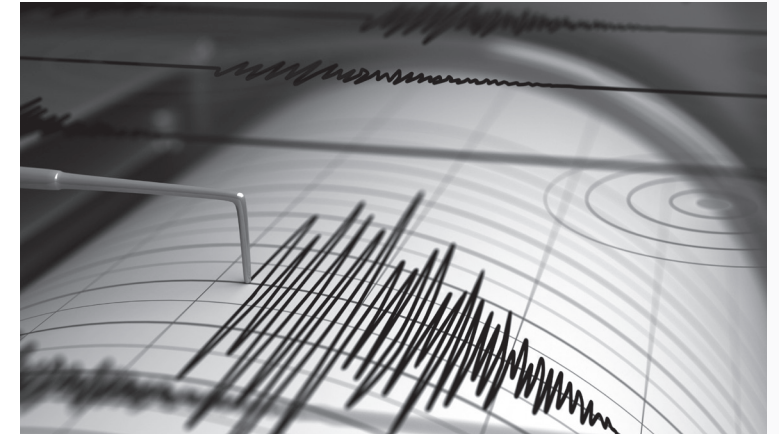
Participate in an in depth analysis of the seismic design of two buildings.

Talk about the treatment of mechanical, electrical and plumbing equipment.



Seismic Design of Buildings

Columbia, SC - Friday, January 25, 2019



Examine basic principles of seismic design

Discuss seismic design techniques including diaphragms, braced frames and shear walls

Explore seismic design provisions in building codes

Study seismic design for mechanical, electrical and plumbing equipment

Participate in seismic design case studies of two buildings

Continuing Education Credits

Professional Engineers

7.0 PDHs

Architects

7.0 HSW CEHs

7.0 AIA HSW Learning Units

International Code Council

.7 CEUs (Building)

Contractors

Non-Credit Continuing Ed.



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Faculty

Eugene H. Brislin Jr., P.E. *Structural Engineer, Summerville, SC*

Mr. Brislin has been a professional engineer for more than 20 years and has designed many structures and performed many different types of analysis in that time. He has worked for a steel fabricator, an architectural/engineering firm and a seismic consultant and has been in private practice over 13 years.

Mr. Brislin earned his BSCE degree from The Citadel in Charleston, South Carolina, and his MSCE degree from the University of South Carolina. He has completed all his course work for his PhD degree, but has not completed his dissertation. His graduate study work has been in mathematical elasticity.

Mr. Brislin has worked on a wide variety of projects from arenas such as Gund Arena in Cleveland, Ohio, and the Edward Jones Arena in St. Louis, Missouri, to renovation and seismic retrofit of the South Carolina State House and the design of the Columbia South Carolina Museum of Art. He has done stress analysis on weapons systems for the Department of Defense and has consulted on cellular telephone concealment projects.

Mr. Brislin’s company routinely performs modal analysis of structures to provide more accurate seismic loads and to reduce the cost of seismic requirements through more advanced analysis techniques. The company is knowledgeable concerning structural dynamics and can perform a full dynamic analysis for complicated structures, and ductility requirements in concrete and masonry as well as welded steel moment connection requirements on toughness of steel.

Seminar Information

Doubletree by Hilton Columbia 2100 Bush River Road Columbia, SC 29210 (803) 731-0300	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
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Tuition
\$279 for individual registration
\$259 for three or more simultaneous registrations.
Included with your registration:
Complimentary continental breakfast and printed seminar manual.

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.

Additional Learning

Webinar Series

Seismic Design and Construction

- **Seismology and Building Codes**
Thurs., Dec. 27, 2018, 11:00 AM - 3:30 PM CST
- **Seismic Design of Building Structures**
Fri., Dec. 28, 2018, 11:00 AM - 3:30 PM CST

Commercial Solar Peaker Batteries

- **Commercial Solar Peaker Batteries, Part I**
Wed., Jan. 9, 2019, 11:00 AM - 3:15 PM CST
- **Commercial Solar Peaker Batteries, Part II**
Thurs., Jan. 10, 2019, 11:00 AM - 2:15 PM CST

Proposal Writing
Fri., Jan. 11, 2019, 11:00 AM - 3:30 PM CDT

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

Technical Writing

- **Technical Writing Basics**
Mon., Jan. 14, 2019, 11:00 AM - 1:00 PM CST
- **Planning Documents**
Mon., Jan. 14, 2019, 1:30 - 3:30 PM CST
- **Writing Documents**
Tues., Jan. 15, 2019, 11:00 AM - 1:00 PM CST
- **Revising and Editing Documents**
Tues., Jan. 15, 2019, 1:30 - 3:30 PM CST

Fiber-Reinforced Composites

- **Portland Cement and Masonry**
Thurs., Jan. 17, 2019, 11:00 AM - 1:00 PM CST
- **Fiber-Reinforced Composites**
Thurs., Jan. 17, 2019, 1:30 - 3:30 PM CST
- **Fiber-Reinforced Polymer (FRP) Composites Reinforcement**
Fri., Jan. 18, 2019, 11:00 AM - 1:00 PM CST
- **Overview of Sandwich Materials and Structures**
Fri., Jan. 18, 2019, 1:30 - 3:30 PM CST

Continuing Education Credit Information

This seminar is open to the public. It offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects in all states. Educators and courses are not subject to preapproval in South Carolina.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects.

This seminar is registered with the American Institute of Architects for 7.0 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES.

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

This course offers a non-credit continuing education opportunity to 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.

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!
An audio recording of this seminar is available for \$289. Allow four weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Seismic Design of Buildings
Columbia, SC - Friday, January 25, 2019

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: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
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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.

() **I am not attending.** Please send me the self-study package for **\$289.00**.

☐ Downloadable MP3 Audio/PDF Manual

☐ CD/Manual Package

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Checks: Make payable to HalfMoon Education Inc.

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