

Agenda

Presented by Jorge F. Meneses, Ph.D., P.E., G.E., D.GE, F.ASCE

Understanding the Effect of Seismic Loads on Buildings

- Measuring seismic activity
- Quantifying the forces on soils, foundations and buildings
- Strength and stiffness
- Strength procedures, allowable stress procedures, performance-based procedures
- Serviceability and functionality
- Seismic force distribution (load path)

Reviewing Applicable Building Codes and Design Guidelines

- Seismic design criteria
- ASCE 7 seismic provisions
- International Building Code

Site-specific Ground Motion Procedures for Seismic Design

- Site response
- Risk-targeted maximum considered earthquake
- Probabilistic, deterministic, site-specific

Selection and Modification of Time Histories for Seismic Design

- Ground motion databases
- Selection criteria
- Modification procedures

Soil Structure Interaction for Seismic Design

- Foundation damping effects
- Kinematic interaction effects

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.

**Seismic Design of Buildings:
Importance of Seismic Ground Motions**
Irvine, CA - Friday, May 17, 2019



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

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Learning Objectives

You'll be able to:

Learn about the effect of seismic loads on buildings.

Explore applicable building codes and design guidelines, including ASCE 7 and the International Building Code.

Define site-specific ground motion procedures for seismic design.

Discuss selection and modification of time histories for seismic design.

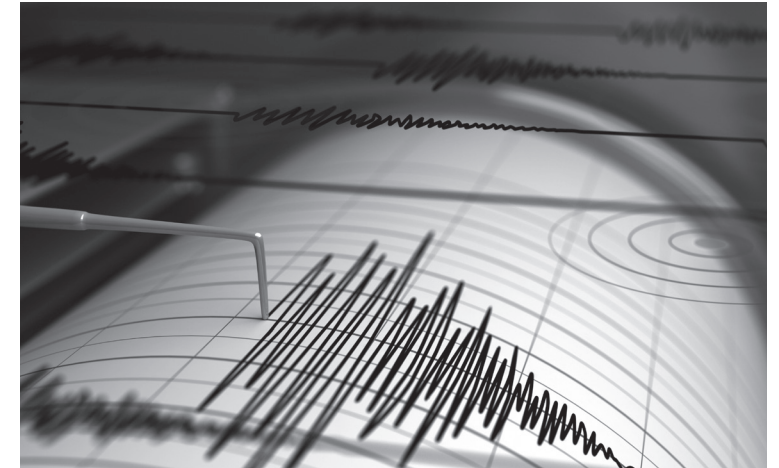
Review soil structure interaction for seismic design.



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Define site-specific ground motion procedures for seismic design

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Continuing Education Credits

Professional Engineers

7.0 Continuing Ed. Hours

Architects

7.0 AIA HSW Learning Units
(Non-qualifying for CA architects)

International Code Council

.7 CEUs (Building)



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Faculty

Jorge F. Meneses, Ph.D., P.E., G.E., D.GE, F.ASCE

Principal Geotechnical Engineer, RMA Group, Inc.

Dr. Meneses has more than 30 years of consultancy, project management, research, and teaching experience, in both private industry and research institutions in the field of geotechnical and earthquake engineering. He has been involved in numerous projects serving as a technical lead in geotechnical earthquake engineering and foundation engineering across the country and various markets including water, nuclear, transportation, high-rise buildings, energy, schools, hospitals, commercial and industrial. Dr. Meneses frequently acts as a peer reviewer for technical conferences and technical journal publications, is a guest speaker for domestic and international conferences, and has published more than 60 technical publications. He is currently a part-time faculty member in the graduate school of San Diego State University. He is the president and founder of the Earthquake Engineering Research Institute (EERI) San Diego Chapter, member of the EERI Board of Directors, California seismic safety commissioner, honorary chair of the ASCE Geo-Institute San Diego Chapter, member of the ASCE 7-16 (Minimum Design Loads for Buildings and Other Structures) and ASCE 1 (Geotechnical Analysis, Design, Construction, Inspection and Monitoring of Nuclear Safety-Related Structures) Committees, member of the Industry Advisory Board, Department of Structural Engineering (University of California San Diego), a member of the Academy of Geo-Professionals, and a Fellow of the American Society of Civil Engineers (ASCE).

Here's what past attendees had to say about the program and presenter Jorge Meneses:

"Enjoyable and I learned a lot." – *Engineer*

"Good presenter. Highly knowledgeable and approachable."
– *Engineering Geologist/Civil Engineer*

Seminar Information

Irvine Marriott 18000 Von Karman Avenue Irvine, CA 92612 (949) 553-0100	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

\$289 for individual registration

\$269 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

HEC-RAS Webinar Series

- **Hydraulic Principles and Applications**
Tues., April 2, 2019, 11:00 AM - 1:00 PM CDT
- **Working with the HEC-RAS User Interface**
Tues., April 2, 2019, 1:30 - 3:00 PM CDT
- **Water Surface Profiling**
Wed., April 3, 2019, 11:00 AM - 1:00 PM CDT
- **Steady Flow Surface Profile Demonstrations**
Wed., April 3, 2019, 1:30 - 3:30 PM CDT

Wood Construction

- **Design Specifications, Building Codes and Design Values**
Thurs., April 4, 2019, 11:00 AM - 12:30 PM CDT
- **Structural Sawn Lumber, Composite Lumber and Laminated Timber**
Thurs., April 4, 2019, 1:00 - 2:30 PM CDT
- **Prefabricated Wood I-Joists Trusses**
Fri., April 5, 2019, 11:00 AM - 12:30 PM CDT
- **Connectors and Fire Protection Design**
Fri., April 5, 2019, 1:00 - 2:30 PM CDT

Off-Grid Master Class

- **Off-Grid Master Class, Part I**
Wed., April 17, 2019, 11:00 AM - 2:15 PM CDT
- **Off-Grid Master Class, Part II**
Thur., April 18, 2019, 11:00 - 2:15 PM CDT

Soil Engineering

- **Introduction to Soil Engineering**
Thurs., April 25, 2019, 11:00 AM - 12:30 PM CDT
- **Design of Excavation Support Systems**
Thurs., April 25, 2019, 1:00 - 2:30 PM CDT
- **Slope Repair Techniques**
Fri., April 26, 2019, 11:00 AM - 12:30 PM CDT
- **Soil Engineering after College: Practical Approaches to Foundations and Retaining Structures**
Fri., April 26, 2019, 1:00 - 2:30 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 a 7.0 hour continuing education opportunity to professional engineers and 7.0 HSW continuing education hours to architects (non-credit in California) in all states with continuing education requirements. Continuing education is not required for engineer license maintenance or renewal in California. The subject matter of this seminar does not contain accessibility content for California architects.

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

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.

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

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.

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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	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.
Complete the entire form. Attach duplicates if necessary.	() 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.

() **I am not attending.** Please send me the self-study package:

Downloadable MP3 Audio/PDF Manual for **\$269.00**.

CD/Manual Package for **\$289.00**.

(Please allow four weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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