

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: new changes from 2019 California Building Code (CBC)
- New ASCE 7-16 Seismic Provisions

New Site-specific Ground Motion Procedures for Seismic Design (2019 CBC and ASCE 7-16)

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

Selection and Modification of Time Histories for Seismic Design

- Ground motion databases
- New Selection criteria per ASCE 7-16
- Modification procedures

Soil Structure Interaction for Seismic Design (New ASCE 7-16)

- 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**
Pasadena, CA - Friday, February 21, 2020

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Learning Objectives

You'll be able to:

Describe the effects of seismic loads on buildings and explain how seismic activity is measured.

Quantify seismic forces on soils, foundations and buildings, and discuss seismic force distribution.

Comply with applicable building codes, including the California Building Code and ASCE 7-16.

Identify site-specific ground motion procedures for seismic design.

Discuss the selection and modification of time histories for seismic design.

Consider soil structure interaction under new ASCE 7-16.



Seismic Design of Buildings: Importance of Seismic Ground Motions

Pasadena, CA - Friday, February 21, 2020



Learn about the effect of seismic loads on buildings

Explore applicable building codes and design guidelines, including changes in the 2019 California Building Code (CBC)

Define site-specific ground motion procedures for seismic design (2019 CBC and ASCE 7-16)

Discuss the selection and modification of time histories for seismic design

Review soil structure interaction for seismic design (New ASCE 7-16)

Continuing Education Credits

Architects

Non-Credit for CA Architects
7.0 AIA LU|HSW

Professional Engineers

7.0 PDHs*

*Continuing education not mandatory in California

International Code Council

.7 CEUs (Building)

Contractors

Non-Credit Continuing Ed.



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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. Jorge Meneses is principal geotechnical engineer with RMA Group. He is a member of the California Seismic Safety Commission appointed by Governor Brown and confirmed by the State Senate. He is a reviewer of seismic ground motions for the seismic design of high-rise buildings for the City of San Diego, part-time faculty at San Diego State University, Fellow of the American Society of Civil Engineers (ASCE), member of the Industry Advisory Board of the Department of Structural Engineering at University of California San Diego, member of the Board of Directors of the Earthquake Engineering Research Institute (EERI), president of the EERI San Diego Chapter, past Member of the ASCE 7-16 Committee (Minimum Design Loads for Buildings and Other Structures), member of the ASCE 1 Committee (Geotechnical Analysis, Design, Construction, Inspection and Monitoring of Nuclear Safety-Related Structures), honorary chair of the ASCE Geo-Institute San Diego Chapter, and member of the Academy of Geo-Professionals.

He is an expert in geotechnical, foundation, and earthquake engineering with more than 30 years of professional experience. His areas of expertise include probabilistic and deterministic seismic hazard analysis, seismic deaggregation, selection and modification of earthquake ground motions, site response and characterization, liquefaction and lateral spread evaluation and mitigation, seismic stability of earthworks, post-earthquake reconnaissance, numerical modeling and advanced geotechnical testing. Dr. Meneses specializes in seismic soil-structure interaction analysis, and analysis and design of pile foundations subjected to liquefaction and lateral spread. He has experience with seismic hazard evaluation and ground motions development in different seismotectonic environments, and he has in-depth knowledge of seismic regulations for dams, buildings, bridges, nuclear facilities, ports, and others.

Dr. Meneses has professional experience in the United States, Japan, Peru, India, and Mexico. He has been involved in numerous projects serving as a technical lead in earthquake geotechnical engineering and foundation engineering across the country.

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.

Seminar Information

Courtyard Los Angeles Pasadena/Old Town 180 North Fair Oaks Avenue Pasadena, CA 91103 (626) 403-7600	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.

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.



Continuing Education Credit Information

This seminar is open to the public and offers a non-credit continuing education opportunity to California architects and engineers.

The American Institute of Architects Continuing Education System has approved this activity for 7.0 LU|HSW (Sponsor No. J885). Only full attendance is reportable to the AIA/CES. Visit www.halfmoonseminars.org for complete AIA/CES information.

This course offers 7.0 hour non-credit continuing education hours to professional engineers in California. It will qualify for 7.0 PDHs for engineers seeking continuing education credit in all other states. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects.

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

This course also offers a non-credit continuing education opportunity to construction contractors. Credit approval is not being sought in any state with a contractor continuing education requirement.

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**
- Technical Writing**
- **Technical Writing and Planning Documents**
Wed., Jan. 8, 2020, 11:00 AM - 1:00 PM CST
 - **Technical Writing and Writing Documents**
Wed., Jan. 8, 2020, 1:30 - 3:30 PM CST
 - **Technical Writing and Writing Documents**
Thurs., Jan. 9, 2020, 11:00 AM - 1:00 PM CST
 - **Practical Floodplain Management**
Thurs., Jan. 8, 2020, 1:30 - 3:30 PM CST

- Geothermal Heating and Cooling**
- **Thermodynamic Basics of Geothermal Systems**
Thurs., Jan. 9, 2020, 11:00 AM - 12:00 PM CST
 - **Understanding Earth Loop Systems**
Thurs., Jan. 9, 2020, 12:30 - 2:00 PM CST
 - **Choosing and Designing Geothermal Systems**
Fri., Jan. 10, 2020, 11:00 AM - 12:00 PM CST
 - **Evaluating and Maintaining Geothermal Systems**
Fri., Jan. 10, 2020 , 12:30 - 2:30 PM CST

- Demolition and Deconstruction**
- **Purposes and Benefits of Demolition and Deconstruction**
Wed., Jan. 15, 2020, 11:00 AM - 1:00 PM CST
 - **Markets/Uses for Deconstructed Materials**
Wed., Jan. 15, 2020, 1:30 - 3:00 PM CST
 - **Material-Specific Deconstruction Methods**
Thurs., Jan. 16, 2020, 11:00 AM - 12:30 PM CST
 - **Planning and Conducting a Deconstruction**
Thurs., Jan. 16, 2020, 1:00 - 3:00 PM CST

- Ethical Issues for Engineers**
- **Handling Ethical Issues in Professional Engineering Practice**
Fri., Jan. 17, 2020, 12:00 - 2:00 PM CST
 - **Resolving Disputes and Handling Ethical Issues in Government Projects**
Fri., Jan. 31, 2020, 12:00 - 1:00 PM CST
 - **Complying with Rules of Professional Conduct**
Fri., Feb. 14, 2020, 12:00 - 1:00 PM CST

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

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Registration

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How to Register		Registrant Information
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.		

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.

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**. ☐ USB/Manual Package **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: Mastercard, Visa, American Express, or Discover

Credit Card Number: _____

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