Agenda

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

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.

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

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 (New 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)

Architects
Non-Credit for CA Architects
7.0 AIA LU|HSW

Professional Engineers
7.0 PDHs

‘Continuing education not mandatory in California

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.
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 Related Structures), honorary chair of the ASCE Geo-Institue 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 journal publications, is a guest speaker for industry conferences, and he has given presentations on various technical topics.

Seismic Design of Buildings: Importance of Seismic Ground Motions
Pasadena, CA - Friday, February 21, 2020

How to Register
Online: www.halfmoonseminars.org
Phone: 715-835-5900
Fax: 715-835-6066
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278

Complete the entire form. Attach duplicates if necessary.

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 $269.00. Visit 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.

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

Jorge F. Meneses, Ph.D., P.E., G.E., D.GE, FASCE
Principal Geotechnical Engineer, RMA Group, Inc.

Jorge F. Meneses, Ph.D., P.E., G.E., D.GE, FASCE
Principal Geotechnical Engineer, RMA Group, Inc.

Visit us online at www.halfmoonseminars.org

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, 11:30 - 2:30 PM CST
- Technical Writing and Writing Documents
  Thurs., Jan. 9, 2020, 11:00 AM - 1:00 PM CST

Practical Floodplain Management

Thurs., Jan. 9, 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 - 2:30 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
  Fri., Jan. 17, 2020, 11:00 AM - 12:30 PM CST
- Planning and Conducting a Deconstruction
  Thurs., Jan. 16, 2020, 10:00 - 1:00 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
  Feb., Jan. 31, 2020, 12:00 - 2:00 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/

Tuition

- I am 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 for $289.00

Checks: Make payable to HalfMoon Education Inc.

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

Expiration Date: _______________ CVV2 Code: _______________
Cardholder Name: _______________________
Billing Address: _______________________
City: ____________________ State: _____ Zip: __________
Signature: _______________________
Email: _______________________

© 2019 HEI •20 CASEISDB 2.21 PSDN CP