HalfMoon Education Live Continuing Education Webinars

Soil-Structure Interaction (SSI)

Online - Tuesday, July 25, 2023 | 9:00 am - 4:00 pm CDT

Credits:
Professional Engineers: 6.0 PDHs
Architects: 6.0 HSW CE Hours AIA: 6.0 LU|HSW
International Code Council: .6 CEUs (Building)

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HalfMoon Education Inc.
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AIA Continuing Education Provider

ICC PREFERRED EDUCATION PROVIDER

Agenda | Tuesday, July 25, 2023 | 9:00 am - 4:00 pm CDT (including a 30-min. break)

Introduction and Importance of SSI
- Overview
- Types of SSI modeling
- Understanding and Implementing SSI
- Site shear wave velocity and fundamental period of structure

Base Slab Averaging (BSA) and Embedment Effects
- Effective foundation size
- When to apply BSA
- How to calculate embedment depth
- Limitations and Issues
- Examples

Foundation and Soil Flexibility, and Period Lengthening
- Soil properties for flexibility calculations
- Vertical and rotational springs
- Horizontal springs
- Bounding analysis
- Fixed-base and flexible-base conditions
- Examples

Foundation Damping
- Requirements
- Effective damping ratio
- Soil damping
- Radiation damping
- Limitations and Issues

Basement Modeling
- Comparison of different models
- Models for buildings on relatively level grade
- Models for buildings on sloping ground
- Examples

Conclusions and Recommendations
- Helpful resources
- Comparison of current provisions

Presented by

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Principal Geotechnical Engineer, RMA Group, Inc.

Dr. Jorge Meneses is Principal Geotechnical Engineer with RMA Group. He was a member of the California Seismic Safety Commission appointed by Governor Brown and confirmed by State Senate (2017-2021). 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), and president of the EERI San Diego Chapter. Dr. Meneses is also a 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.

Tuition

$319 for individual registration
$289 for two or more registrants from the same company at the same time.

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Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and 6.0 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.0 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .6 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed). .

On-Demand Credits

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6.0 HSW LUs (AIA)

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