

Agenda

Presented by James “Jay” A. McKelvey, III, D.GE, F.ASCE

Soil Mechanics Review, OSHA Requirements and Slope Stability

Soil mechanics review
OSHA requirements for excavations
Safe vs. stable excavations
Slope stability for excavations

Shoring Options and Earth Pressure Theories and Influences

Shoring options
Earth pressure theories
Influence of surcharges
Influence of overlying slopes and seepage

Vertical Excavation Design

Modes of failure
ASD and LRFD design methodologies
Cantilever wall analysis
Influence of movement
Lateral earth pressures for braced walls
Braced walls
Anchored walls
Cofferdams
Basal heave
Horizontal deformation
Vertical deformation
Structural design

Case Histories

Open cuts
Vertical shoring
Cofferdams
Tie backs

Deep Excavations

Wilmington, DE - Monday, August 6, 2018



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Learning Objectives

You'll be able to:

Review OSHA requirements for excavations and maintain safe excavation conditions.

Understand earth pressure theories and explore shoring options.

Discuss ASD and LRFD design methodologies.

Explore applications for braced walls, anchored walls, and cofferdams.

Consider the possibility of vertical or horizontal deformation and discuss excavation case histories.



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Review soil mechanics and earth pressure theory

Explore OSHA requirements for excavations, and get tips on maintaining safe excavations

Explore shoring options

Review ASD and LRFD design methodologies

Discuss applications for braced walls, anchored walls and cofferdams

Learn from deep excavation case studies

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 HSW CEHs

6.5 AIA HSW Learning Units

Geologists

6.5 Contact Hours

Contractors

Non-Credit Continuing Ed.



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Faculty

James “Jay” A. McKelvey, III, D.GE, F.ASCE *Director- Geotechnical Design Division at Earth Engineering Inc.*
Mr. McKelvey is the director of the Geotechnical Design Division at Earth Engineering Inc. He is a registered professional engineer (P.E.) in California, Delaware, Maryland, New Jersey, Pennsylvania, and Virginia. Mr. McKelvey is also a diplomate (D.GE) of the Academy of Geo-Professionals and a fellow of the American Society of Civil Engineers (F.ASCE).

Mr. McKelvey has extensive experience in geotechnical engineering including site assessment and field investigations; deep and shallow foundation design for buildings, bridges and other structures; retaining wall design; embankment stability; mechanically-stabilized soil structure; and subsurface hydrology.

He also has significant experience in heavy construction claim mitigation and in litigation support pertaining to impacted heavy construction projects. Mr. McKelvey has also handled construction support and construction quality assurance projects.

His environmental engineering experience includes technical contributions to the remediation of many Superfund sites and over 50 landfill design projects.

Mr. McKelvey has published over 25 technical papers in journals, conference proceedings and trade magazines. He is currently the treasurer for the Delaware Valley Geo-Institute (DVGI), serves on the GeoInstitute committees for Earth Structures and Geosynthetics, and is a voting member in ASTM committees Soil and Rock (D18), and Geosynthetics (D35).

Seminar Information

Doubletree Hotel Wilmington
4727 Concord Pike
Wilmington, DE 19803
(302) 478-6000

Tuition

\$279 for individual registration
\$259 for three or more registrations.

Each registration includes a 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 CD/manual package. You may also send another person to take your place.

Can’t Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five 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.

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states, except Florida architects. Educators and courses are not subject to preapproval in Delaware.

This seminar is approved by the American Institute of Architects for 6.5 Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES.

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

The Delaware Board of Geologists has approved this event for 6.5 contact hours.

This seminar offers a continuing education opportunity to contractors. It has not been approved by any state contractor licensing board for mandatory continuing education credit.

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

Introduction to Vibrations

- **Introduction to Vibrations**
Thurs., June 14, 2018, 11:00 AM - 1:00 PM CDT
- **Eigenvalues, Eigenvectors and Motion**
Thurs., June 14, 2018, 1:30 - 3:00 PM CDT
- **Analysis and Test Methods**
Fri., June 15, 2018, 11:00 AM - 12:30 PM CDT
- **Designing for Vibration and Failure Analysis**
Fri., June 15, 2018, 1:00 - 2:30 PM CDT

Pedestrians and Bicycle Transport Planning

- **Introduction to Current Conditions and Trends in Biking and Walking**
Thurs., June 21, 2018, 11:00 AM - 12:30 PM CDT
- **Engineering and Infrastructure: Design for Walkability and Bikeability**
Thurs., June 21, 2018, 1:00 - 2:30 PM CDT
- **Developing a Walking and Biking Plan, Part I**
Fri., June 22, 2018, 11:00 AM - 12:30 PM CDT
- **Developing a Walking and Biking Plan, Part II**
Fri., June 22, 2018, 1:00 - 2:30 PM CDT

Structural Forensic Engineering

- **Introduction to the forensic Engineering Process**
Thurs., June 28, 2018, 11:00 AM - 1:00 PM CDT
- **Causes and Failures and the Forensic Engineering Report**
Thurs., June 28, 2018, 1:30 - 3:30 PM CDT
- **Forensic Examination of Structures and Use in Litigation**
Fri., June 29, 2018, 11:00 AM - 1:00 PM CDT

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development Part 1**
Thurs., July 5, 2018, 11:00 AM - 2:15 PM CDT
- **Solar Photovoltaic Project Design and Development Part 2**
Fri., July 6, 2018, 11:00 AM - 2:15 PM CDT

AutoCAD 3D

- **Using Key Commands and Tools**
Part I: Wed., July 11, 2018, 11:00 AM - 2:15 PM CDT
Part II: Thurs., July 12, 2018, 11:00 AM - 2:15 PM CDT
- **Building a Solid Model**
Part I: Wed., July 18, 2018, 11:00 AM - 2:15 PM CDT
Part II: Thurs., July 19, 2018, 11:00 AM - 2:15 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

Registration

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How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ 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 CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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