

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
Amherst, NY - Monday, July 16, 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 Continuing Ed. Hours

Architects

6.5 HSW Continuing Ed. Hours

6.5 AIA HSW Learning Units

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 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

Buffalo Marriott - Niagara
1340 Millersport Hwy.
Amherst, NY 14221
(716) 689-6900

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 - 4:30 pm

Tuition
\$279 for individual registration
\$259 for three or more registrations.
Each registration includes a complimentary continental breakfast and printed seminar manual.

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. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open to the public and offers up to 6.5 continuing education hours to professional engineers and 6.5 HSW continuing education hours to architects in all states, except Florida architects.

HalfMoon Education is deemed a New York-approved continuing education provider for architects via its affiliation with the American Institute of Architects. HalfMoon Education is an approved continuing education provider for New York engineers (NYSED Sponsor No. 35) and New Jersey engineers (Approval No. 24GP00000700).

This event is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. J885). Courses approved by the AIA qualify for New Jersey architects. Only full attendance can be reported to the AIA/CES.

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

This event offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any state with a continuing education requirement for contractors.

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

National Electrical Code: Onsite Power Generation and Distribution

- **National Electric Code: Onsite Power Generation and Distribution Part 1**
Weds., June 6, 2018, 11:00 AM - 2:15 PM CDT
- **National Electric Code: Onsite Power Generation and Distribution Part 2**
Thurs., June 7, 2018, 11:00 AM - 2:15 PM CDT

HVAC Series

- **Heating, Ventilation and Air Conditioning Principles**
Thurs., June 7, 2018, 11:00 AM - 1:00 PM CDT
- **HVAC System Design Considerations**
Thurs., June 7, 2018, 1:30 - 2:30 PM CDT
- **Evaluating HVAC Systems and Equipment**
Fri., June 8, 2018, 11:00 AM - 12:00 PM CDT
- **HVAC System Controls and Techniques**
Fri., June 8, 2018, 12:30 - 2:30 PM CDT

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

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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Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Occupation: _____ Email: _____ Phone: _____
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.
Checks: Make payable to HalfMoon Education Inc.
Credit Card: <i>Mastercard, Visa, American Express, or Discover</i> Credit Card Number: _____ Expiration Date: _____ CVV2 Code: _____ Cardholder Name: _____ Billing Address: _____ City: _____ State: _____ Zip: _____ Signature: _____ Email: _____