

Agenda

Presented by
James A. McKelvey, III, P.E., 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

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. 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. Self-study packages do not qualify for AIA credit.

Deep Excavations

Live, Interactive Webinar - Wednesday, July 21, 2021

NON-PROFIT
U.S. POSTAGE PAID
EAU CLAIRE, WI
PERMIT NO. 2016

HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Identify principles of soil mechanics, and discuss modes of excavation failure.

Comply with OSHA safety requirements for excavations.

Discuss earth pressure theory and identify shoring options for deep excavation projects.

Evaluate earth retention strategies, including braced walls, anchored walls and cofferdams.

Explore vertical and horizontal deformation.

Learn from excavation case histories illustrating open cuts, vertical shoring, cofferdams and tiebacks.



HalfMoon Education Online Learning

Deep Excavations

Live, Interactive Webinar - Wednesday, July 21, 2021



Explore soil mechanics

Review OSHA requirements for excavations

Discuss earth pressure theories

Explore shoring options

Identify modes of excavation failure

Consider braced walls, anchored walls and cofferdams

Learn from deep excavation case histories

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 HSW CE Hours

AIA

6.5 LU | HSW

International Code Council

.65 CEUs (Sitework)

AIA
Continuing
Education
Provider



Faculty

James A. McKelvey, III, P.E., 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. in East Norriton, Pennsylvania. He is a registered professional engineer (P.E.) in California, Delaware, Maryland, New Jersey, Pennsylvania, Virginia and the District of Columbia. 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 structures; and subsurface hydrology.

He also has significant experience in mitigating heavy construction claims 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 30 technical papers in journals, conference proceedings and trade magazines. He is the past chair for the Delaware Valley Geo-Institute (DVGI) and is a voting member in ASTM committees on soil and rock (D18), and geosynthetics (D35), and he is an editorial board member of the *Geotechnical Testing Journal*. Mr. McKelvey also serves on two Geo-Institute committees: Earth Structures and Embankments and Dams. For the latter, he is a member of the subcommittee on landslide risk assessment.

Webinar Information

Log into Webinar 8:00 - 8:30 am CDT	Break 11:45 am - 12:45 pm CDT
Morning Session 8:30 - 11:45 am CDT	Afternoon Session 12:45 - 4:30 pm CDT

Tuition
\$289 for individual registration
\$199 for three or more registrants from the same company at the same time.
***Included with your registration:* PDF 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

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit www.gotowebinar.com.

Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

Can’t Attend? Order the Webinar as a Self-Study Package!
Recordings of this webinar are available for purchase. 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. Self-study packages do not qualify for AIA credit.

Additional Learning

Structural Forensic Engineering
- Tues, June 15, 2021 | 10:00 am - 1:45 pm CDT
- Wed, June 16, 2021 | 10:00 am - 2:15 pm CDT

International Residential Code 2021
- Wed, June 16, 2021 | 8:30 am - 4:30 pm CDT

2021 International Residential Code: Residential Plumbing Systems
- Fri, June 18, 2021 | 11:00 am - 3:30 pm CDT

Foundation Design, Construction and Repair in Karst Terrain
- Tues, June 22, 2021 | 9:00 am - 4:30 pm CDT

International Existing Building Code 2021
- Tues, June 22, 2021 | 8:30 am - 5:00 pm CDT

Revit Workshop: Basics of Building Information Modeling
- Wed, June 23, 2021 | 9:30 am - 4:30 pm CDT

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

Continuing Education Credit Information
This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects licensed in all states.

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 6.5 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 Sitework (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Registration

Deep Excavations
Live, Interactive Webinar - Wednesday, July 21, 2021

How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066	Complete the entire form. Attach duplicates if necessary.
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	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 webinar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.

() **I am not attending.** Please send me the webinar recording:

☐ Streamable MP4 Video/PDF Manual for **\$299.00**.

☐ USB Video/PDF Manual for **\$299.00**.

Checks: Make payable to HalfMoon Education Inc.

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

Credit Card Number: _____

Expiration Date: _____ CV2 Code: _____

Cardholder Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Email: _____