

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

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Deep Excavations

Live, Interactive Webinar - Thursday, March 4, 2021

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Learning Objectives

You'll be able to:

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

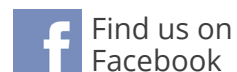
Comply with OSHA safety requirements for excavations.

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

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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
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International Code Council
.65 CEU (Sitework)



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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 CST	Break 11:45 am - 12:45 pm CST
Morning Session 8:30 - 11:45 am CST	Afternoon Session 12:45 - 4:30 pm CST

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Handling Ethical Issues in Construction Contracting
- Tues., Feb. 16, 2021 | 9:00 - 10:00 am CST

Construction Cost Estimating
- Fri., Feb. 19, 2021 | 7:30 am - 3:30 pm CST

International Existing Building Code
- Mon., Feb. 22, 2021 | 8:30 am - 5:00 pm CST

Passive House: Planning and Design
- Tues., Feb. 23, 2021 | 8:30 am - 4:30 pm CST

Deep Foundations and Excavations
- Tues., Feb. 23, 2021 | 9:00 am - 5:00 pm CST

Stormwater Basins and Underground Systems
- Tues., Feb. 23, 2021 | 9:00 am - 4:30 pm CST

International Residential Code 2021
- Wed., Feb. 24, 2021 | 10:00 am - 2:30 pm CST
- Thurs., Feb. 25, 2021 | 10:00 am - 12:00 pm CST

Shallow Foundation Design, Construction and Repair
- Wed., Feb. 24, 2021 | 11:00 am - 2:15 pm CST
- Thurs., Feb. 25, 2021 | 11:00 am - 2:15 pm CST

Complying with Fire Protection & Building Codes
- Thurs., Feb. 25, 2021 | 8:00 am - 4:00 pm CST

Construction Scheduling and Cost Control
- Thurs., Feb. 25, 2021 | 9:30 am - 2:00 pm CST
- Fri., Feb. 26, 2021 | 9:30 am - 2:00 pm CST

Current Issues in the Practice of Geoscience
- Fri., Feb. 26, 2021 | 8:30 am - 3:50 pm CST

International Building Code 2021
- Fri., Feb. 26, 2021 | 9:00 am - 5:00 pm CST

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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 .65 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).

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Deep Excavations
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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 .		
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