

Agenda

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

Slope Stability Introduction and Investigations

Types of slope movement and instability

- Erosion and mudslides
- Veneer failures
- Deep seated circular failures
- Rapid drawdown
- Rockfall and rock slides
- Seismic

Soil investigations for slope stability

- Site reconnaissance
- Geology and visual observations
- Obtaining and reviewing geotechnical reports
- Establishing appropriate investigational methods
- Subsurface investigations

Reviewing Properties of Soils and Rock

Soil classification

Physical properties

Permeability

Drained and undrained shear strength

Rock mass rating (RMR)

- Compressive strength
- Rock quality designation (RQD)
- Bedding planes, spacing and condition of discontinuities

Slope Stability and Rockfall Analyses

Slope stability concepts

Understanding slope failures

Impact of surface water and groundwater

Seismic stability

Rockfall analyses

Slope Stabilization and Case Histories

Examining slope stabilization methods

- Surface armament and vegetation
- Unloading and buttressing
- Drainage
- Reinforcement with geosynthetics
- Rock slope stabilization

Case histories

Slope Stabilization and Landslide Prevention

White Plains, NY- Monday, October 28, 2019



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Learning Objectives

You'll be able to:

Identify and discuss types of slope movement and instability, including erosion, mudslides, veneer failures, rockfall and rock slides.

Identify and describe properties of soils and rock, including permeability, and drained and undrained shear strength, and consider the impact of these properties on slope stability or instability.

Define the effect of surface water and groundwater on slope stability, and determine what seismic conditions may impact slope stability.

Determine appropriate slope stabilization methods, including surface armament, unloading, buttressing, drainage, and reinforcement with geosynthetics.



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Slope Stabilization and Landslide Prevention

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Learn about types of slope movement and instability

Use soil investigation to determine slope stability

Use rock mass rating (RMR) as a prediction of slope stability

Discuss the impact of surface water on stability

Learn slope stabilization techniques such as drainage, unloading and buttressing

Review slope stabilization case histories

Continuing Education Credits

Professional Engineers

6.5 Continuing Ed. Hours

Architects &

Landscape Architects

6.5 HSW Continuing Ed. Hours

6.5 AIA LU|HSW

6.5 LA/CES HSW PDHs

Floodplain Managers

6.5 ASFPM CECs

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. 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 structure; 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 currently the past chair for the Delaware Valley Geo-Institute (DVGI) and is a voting member in ASTM committees 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 of which he is a member of the subcommittee on landslide risk assessment.

Seminar Information

Crowne Plaza White Plains
66 Hale Avenue
White Plains, NY 10601
(914) 682-0050

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:15 pm
Lunch (on your own)
12:15 - 1:15 pm
Afternoon Session
1:15 - 4:30 pm

Tuition
\$289 for individual registration
\$269 for three or more registrations.
Included with your registration: *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, 6.5 HSW continuing education hours to architects and landscape architects in most states, including New York.

HalfMoon Education is deemed a New York-approved continuing education provider for engineers, architects, and landscape architects via its affiliation with the American Institute of Architects Continuing Education System and the Landscape Architecture Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2), and 79-1.5(i)(2)).

This event is approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Only full attendance can be reported to the AIA/CES and LA/CES. Courses approved by the AIA qualify for New Jersey architects. Visit www.halfmoonseminars.org for complete AIA/CES information under this course listing.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700). North Carolina, and North Dakota.

Additional Learning

Webinar Series
Commercial Solar Peaker Batteries
• **Commercial Solar Peaker Batteries, Part I**
Wed., September 4, 2019, 11:00 AM - 2:15 PM CDT
• **Commercial Solar Peaker Batteries, Part II**
Thurs., September 5, 2019, 11:00 AM - 2:15 PM CDT

Commercial Provisions of the International Energy Conservation Code
• **Commercial Provisions of the International Energy Conservation Code**
Wed., September 11, 2019, 11:00 AM - 1:00 PM CDT
• **IECC Provisions for Commercial Building Envelopes**
Wed., September 11, 2019, 1:30 - 4:00 PM CDT
• **IECC Provisions for Commercial Building HVAC Systems**
Thurs., September 12, 2019, 11:00 AM - 12:00 PM CDT
• **IECC Provisions for Commercial Building Lighting**
Thurs., September 12, 2019, 12:30 - 2:00 PM CDT

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

The Association of State Floodplain Managers has approved this course for 6.5 CECs.

This event offers a continuing education opportunity to construction contractors, but 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.

Registration

Slope Stabilization and Landslide Prevention
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How to Register		Registrant Information	
Online: www.halfmoonseminars.org		Name: _____	
Phone: 715-835-5900		Company/Firm: _____	
Fax: 715-835-6066		Address: _____	
Code:		City:_____State: _____ Zip_____	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Occupation: _____	
Complete the entire form. Attach duplicates if necessary.		Email: _____	
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		Additional Registrants:	
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		Occupation: _____	
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		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 - \$289.00 . Three or more registrants from the same company registering at the same time - \$269.00 each.	
Checks: Make payable to HalfMoon Education Inc.	
Credit Card: <i>Mastercard, Visa, American Express, or Discover</i>	
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