Agenda

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

Slope Stabilization and Landslide Prevention
Coraopolis, PA - Monday, March 30, 2020

You’ll be able to:

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

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

Define the effects of surface water and groundwater on slope stability, and explore rockfall analyses.

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

Learning Objectives

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

Continuing Education Credits

Professional Engineers 6.5 PDHs

Architects 6.5 HSW Continuing Ed. Hours

Landscape Architects 6.5 HSW Contact Hours

Floodplain Managers 6.5 ASFPM CECs

Contractors Non-Credit Continuing Ed.
### Seminar Information

**Pittsburgh Airport Marriott**
777 Atten Road
Coraopolis, PA 15108
(412) 788-8800

**Tuition**

$299 for individual registration
$279 for three or more registrations.

- **Included with your registration:** Complimentary continental breakfast and printed seminar manual.

- **Receiving a reduced tuition rate of $299 for individual registration, $279 for three or more registrations.**

**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 and landscape architects in most states, including Pennsylvania. Educatos and courses are not subject to pre-approval in Pennsylvania.

This seminar is approved by the American Institute of Architects Continuing Education System for 6.5 LUYH (Sponsor No. 1185) and the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Only full attendance is reportable to the AIA/CES and LA/CES. Visit www.halfmoonseminars.org for complete AIA/CES and LA/CES information under this course listing.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (license number 24GP00007890), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects and landscape architects in most states, including Pennsylvania. Educatos and courses are not subject to pre-approval in Pennsylvania.

### Additional Learning

#### Webinar Series

**Foundations in Cold Regions**
- **Introduction to Foundations in Cold Regions**
  - Thurs., Feb. 20, 2020, 11:00 AM - 12:30 PM CST
  - **Shallow Foundation Design in Cold Regions**
    - Thurs., Feb. 20, 2020, 1:00 - 2:30 PM CST
  - **Deep Foundation Design in Cold Regions**
    - Fri., Feb. 21, 2020, 11:00 AM - 12:30 PM CST
  - **Foundation Construction in Cold Regions**
    - Fri., Feb. 21, 2020, 1:00 - 2:00 PM CST

**Soil Mechanics and Slope Stability**
- **Soil Investigation and Classification**
  - Tues., Feb. 25, 2020, 11:00 AM - 1:00 PM CST
  - **Reviewing Hydraulic and Mechanical Properties of Soils**
    - Tues., Feb. 25, 2020, 1:30 - 5:00 PM CST
  - **Determining and Increasing Bearing Capacity**
    - Wed., Feb. 26, 2020, 11:00 AM - 1:00 PM CST
  - **Determining and Increasing Slope Stability**
    - Wed., Feb. 26, 2020, 1:30 - 5:00 PM CST

**Designing for Climate Resilience**
- **Current and Anticipated Climate Effects on Structures and Communities**
  - Thurs., Feb. 27, 2020, 11:00 AM - 12:30 PM CST
  - **Assessing the Impact of Sea Level Rise, Changing Temperature and Changing Weather Patterns**
    - Thurs., Feb. 27, 2020, 1:00 - 3:00 PM CST
  - **Studying the Impact of Extreme Weather Events on Structures and Communities**
    - Fri., Feb. 28, 2020, 11:00 AM - 12:30 PM CST
  - **Adapting Sites, Outdoor Spaces, New Construction and Existing Buildings to Withstand Extreme Weather Events**
    - Fri., Feb. 28, 2020, 1:00 - 5:00 PM CST

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

#### Registration

**Slope Stabilization and Landslide Prevention**
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**How to Register**

- **Online:** www.halfmoonseminars.org
- **Phone:** 715-835-5900
- **Fax:** 715-835-6066
- **Code:**
  - **Name:** HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278
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  - **Address:**
  - **Company/Firm:**
  - **Name:**
  - **Occupation:**
  - **Email:**
  - **Phone:**

**Complete the entire form. Attach duplicates if necessary.**

#### Tuition

- **I will be attending the live seminar. Single Registrant - $299.00.**
- **Three or more registrants from the same company registering at the same time - $279.00 each.**
- **I am not attending. Please send me the self-study package:**
  - [Downloadable MP3 Audio/PDF Manual for $279.00](https://www.halfmoonseminars.org/webinars/)
  - [CD/Manual Package for $299.00](https://www.halfmoonseminars.org/webinars/)
  - [USB/Manual Package $299.00](https://www.halfmoonseminars.org/webinars/)

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**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 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 Geosci (DVG) and is a voting member in ASTM committees on soil nailed walls, DDB, 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.

**Here’s what past attendees said about the program and presenter James “Jay” McKelvey:**

- "Appropriate for wide range of professions and experience." – Structural Engineer
- "Excellent seminar!" – Civil Engineer
- "Kept attendees engaged, good real life stories/examples." – Geotechnical Testing Journal
- "Jay is an awesome instructor and very knowledgeable." – Structural Engineer

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