

Agenda

Presented by Curran E. Mohney

Slope Movement and Mechanisms

Types of slope movement and instability

- Rock fall and rockslides
- Translational and rotational failures
- Debris flows and rapidly moving landslides

Analyzing the stability of slopes

Slope stability concepts

- Reviewing geologic conditions
- Examining soils and topography
- Evaluating surface and groundwater conditions

A brief discussion of soil and rock mechanics

- The influence of water

Evaluating types of slopes

- Natural slopes
- Engineered slopes

Methods of slope stability analysis

Slope Stabilization Methods

Use of vegetation (bioengineering)

Unloading

Buttressing for streambank stabilization and environmental considerations

Drainage

Installing earth retention structures

Combining methods

Surface protection

Buttressing

Reinforcement

Rock slope stabilization

Landslide Hazard and Risk Assessment

Definitions and elements of landslide hazard risk

Risk-reduction strategies (objectives for landslide mitigation)

Lifecycle cost analysis

Applications

Case Histories in Landslide Mitigation

Slope stabilization using retaining walls

Slope stabilization using combinations of methods

Rockfall mitigation

Slope stabilization using earthworks

- Shear keys and buttresses
- Unloading

Slope stabilization using drainage



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Slope Stabilization and Landslide Prevention

Live, Interactive Webinar - Tuesday, October 29, 2024

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



Learning Objectives

You'll be able to:

Analyze the stability of slopes.

Discuss slope stability concepts and methods of slope stability analysis.

Examine the use of vegetation, surface protection, unloading, buttressing, drainage and reinforcement for slope stabilization

Assess the risk of hazards, landslides and rockfall.

Review case histories in landslide mitigation, rockfall mitigation and slope stabilization.



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Slope Stabilization and Landslide Prevention

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Examine slope movement and mechanisms

Understand landslide hazard and risk assessment

Analyze slope stabilization methods

Discuss case histories in landslide mitigation

Evaluate natural slopes and engineered slopes

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International Code Council

.75 CEUs (Sitework)

Floodplain Managers

7.5 ASFPM CECs

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Webinar Information

Online - Tuesday, October 29, 2024

Log into Webinar 8:00 - 8:30 am CDT	Break 12:15 - 12:45 pm CDT
Morning Session 8:30 am - 12:15 pm CDT	Afternoon Session 12:45 - 5:00 pm CDT

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Faculty

Curran E Mohney *Engineering Geologist*
Mr. Mohney is the Engineering Geology Program leader for the Oregon Department of Transportation (ODOT). The Engineering Geology Program at ODOT encompasses site characterization, subsurface exploration, slopes and embankments, geologic hazards, groundwater, geotechnical instrumentation, and planning and research activities. In this role, he also oversees the Unstable Slopes (landslide/rockfall) Program for ODOT. He is a registered geologist and a certified engineering geologist in Oregon with over 25 years of experience in Oregon and the western states. Mr. Mohney has been the Engineering Geology Program leader since 2004. Prior to this, he had been a staff and project-level geologist for consulting firms and the mining industry as well as for ODOT. He is a graduate of the Geology Program at Portland State University. During his professional career, Mr. Mohney has been involved in the investigation, design, and mitigation of hundreds of landslides and rockfalls.

Credit Information

This webinar is open to the public and is designed to qualify for 7.5 PDHs for professional engineers, 7.5 HSW continuing education hours for licensed architects, and 7.5 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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The American Institute of Architects Continuing Education System has approved this course for 7.5 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

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The International Code Council has approved this event for .75 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

This Association of State Floodplain Managers has approved this course for 7.5 CECs for floodplain managers.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

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Additional Learning

- Deep Dive into Constructed Stormwater Wetlands**
- Friday, October 11, 2024 | 10:00 am - 12:00 pm CDT
- From 1620 to 2024: Metes and Bounds Land Description Workshop**
- Friday, October 11, 2024 | 9:00 am - 4:00 pm CDT
- Creating a HEC-RAS Model**
- Friday, October 11, 2024 | 9:00 am - 4:30 pm CDT
- Controlling Coastal Erosion and Creating Living Shorelines**
- Wednesday, October 15, 2024 | 8:30 am - 4:00 pm CDT
- Construction Contracting**
- Tuesday, October 15, 2024 | 9:00 am - 5:00 pm CDT
- How to Calculate Soil Volumes for Cut and Fill**
- Wednesday, October 16, 2024 | 1:30 - 4:30 pm CDT
- Internal Design of MSE Walls and Geosynthetics**
- Wednesday, October 16, 2024 | 10:00 am - 1:15 pm CDT
- Planning for EV Charging Infrastructure for L2 and DC Fast Charge**
- Wednesday, October 16, 2024 | 10:00 am - 12:00 pm CDT
- Retaining Wall Selection: How to Know What to Specify**
- Wednesday, October 23, 2024 | 10:00 am - 12:40 pm CDT
- Deep Dive into Implementing Urban Grazing**
- Tuesday, October 29, 2024 | 9:30 - 11:30 am CDT
- Pollination Ecology and Principles of Pollinator Landscape Design**
- Tuesday, October 29, 2024 | 1:00 - 4:20 pm CDT
- Deep Dive into Invasive Landscape Plants**
- Wednesday, October 30, 2024 | 12:00 - 2:00 pm CDT
- Unreinforced Slope Stability Analysis**
- Wednesday, October 30, 2024 | 10:00 am - 12:00 pm CDT
- Groundwater Chemical Concepts**
- Thursday, October 31, 2024 | 12:00 - 2:00 pm CDT
- How to Design a Reinforced Slope**
- Wednesday, November 6, 2024 | 10:00 am - 12:00 pm CST
- Walls, Water, and What to Do When They Interact**
- Wednesday, November 13, 2024 | 10:00 am - 2:30 pm CST
- Best (and Worst) Practices for Retaining Wall Success and Interactive Workshop Wrap-Up**
- Wednesday, November 20, 2024 | 10:00 am - 1:15 pm CST
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