

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)
- Surface protection
- Unloading
- Buttressing
- Buttressing for streambank stabilization and environmental considerations
- Drainage
- Reinforcement
- Installing earth retention structures
- Rock slope stabilization
- Combining methods

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 - Thursday, September 7, 2023

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Learning Objectives

You'll be able to:

Explore the factors that impact slope stability

Evaluate the stability of natural and engineered slopes

Review slope stabilization options, including vegetation, unloading, buttressing and reinforcement.

Discuss landslide risk reduction strategies.

Learn from case studies of slope stabilization using different stabilization methods.



HalfMoon Education Live Webinars

Slope Stabilization and Landslide Prevention

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Discuss types of slope movement and instability

Analyze the stability of slopes

Evaluate slope stabilization methods, including unloading, buttressing and drainage

Explore landslide hazards and risk assessment

Learn from case studies of landslide mitigation

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Architects

7.5 HSW CE Hours

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Landscape Architects

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International Code Council

.75 CEUs (Sitework)

Floodplain Managers

7.5 ASFPM CECs



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Webinar Information

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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 was 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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- Deep Dive into Pests and Diseases of Trees**
- Wednesday, August 2, 2023 | 1:00 - 3:00 pm CDT
- Introduction to Groundwater Hydrology**
- Tuesday, August 8, 2023 | 9:00 am - 12:15 pm CDT
- Wednesday, August 9, 2023 | 9:00 am - 12:15 pm CDT
- How to Design Accessible Parking**
- Thursday, August 10, 2023 | 10:00 am - 12:00 pm CDT
- Stormwater Basins and Underground Systems**
- Friday, August 11, 2023 | 8:30 am - 4:00 pm CDT
- Deep Dive into Water Infiltration in Soil**
- Tuesday, August 15, 2023 | 2:00 - 4:00 pm CDT
- Basics of HEC-HMS Modeling**
- Wednesday, August 16, 2023 | 9:00 am - 1:15 pm CDT
- Solar Photovoltaic Covered Parking Facilities**
- Thursday, August 17, 2023 | 10:00 am - 12:00 pm CDT
- Roadway Drainage Design**
- Monday, August 21, 2023 | 9:30 am - 4:30 pm CDT
- Wednesday, August 23, 2023 | 9:30 am - 4:30 pm CDT
- Construction Site Grading and Drainage**
- Tuesday, August 22, 2023 | 9:00 am - 4:30 pm CDT
- Retaining Wall Design and Slope Stabilization Techniques**
- Tuesday, August 22, 2023 | 8:30 am - 4:15 pm CDT
- Designing Accessible Pedestrian Facilities under ADA, IBC and PROWAG**
- Wednesday, August 23, 2023 | 8:30 - 11:45 am CDT
- Thursday, August 24, 2023 | 8:30 am - 12:15 pm CDT
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