

Agenda

Presented by Curran E. Mohney, RG CEG

Slope Movement and Mechanisms

- Type of slope movement and instability
- Rockfall and rockslides
 - Translational and rotational failures
 - Debris flows and rapidly moving landslides

Analyzing the stability of slopes

Slope stability concepts

- Reviewing geological conditions

Effects of regional geology

- Examining soils and topography
- Evaluating surface and groundwater
- Shoreline and streambank erosion

A brief discussion of soil and rock mechanics

- The influence of water
- Testing soil properties for design data

Evaluating types of slopes

- Natural slopes
- Engineered slopes

Methods of slope stability analysis

Slope Stabilization Methods

Avoidance

Use of vegetation (biostabilization)

Surface protection

Unloading

Buttressing

Drainage

Reinforcement

Installing earth retention structures

Rock slope stabilization

Debris flow stabilization

Buttressing for streambank stabilization and environmental considerations

Combining methods

Refining and selecting 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 History in Landslide Mitigation

Slope stabilization using retaining walls

Slope stabilization using combination of methods

Rockfall mitigation

Slope stabilization using earthworks

Shear keys and buttresses

Unloading

Slope stabilization using drainage

Slope Stabilization and Landslide Prevention in the Pacific Northwest

Live, Interactive Webinar - Wednesday, February 2, 2022

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PO Box 278
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Learning Objectives

You'll be able to:

Describe types of slope movement and instability, including rock fall, rockslides and translational and rotational failures.

Discuss the impact of geologic conditions, soils, water and topography on slope stability.

Evaluate slope stabilization techniques, including bioengineering, unloading, buttressing, drainage and reinforcement.

Assess landslide risk and implement risk reduction strategies.

Evaluate real life case studies that illustrate the impact of landslide mitigation practices.

HalfMoon Education Live Webinars

Slope Stabilization and Landslide Prevention in the Pacific Northwest

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Understand types of slope movement and instability

Discuss methods of slope stability analysis

Evaluate natural and engineered slopes

Stabilize slopes using retaining walls, earthworks, drainage and using other methods

Assess landslide risk and implement risk reduction strategies

Continuing Education Credits

Professional Engineers

7.0 PDHs
(Non-Mandatory in WA)

Geologists

7.0 PDHs
(Non-Mandatory in WA)

Architects

7.0 HSW CE Hours
7.0 AIA LU | HSW

Landscape Architects

7.0 HSW CE Hours
7.0 LA CES HSW PDHs

International Code Council

Pending

Floodplain Managers

7.0 ASFPM CECs

Foresters

7.0 SAF Cat 1 CFE Credits



Faculty

Curran E. Mohney, RG CEG *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 30 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.

Webinar Information

Log into Webinar 8:00 - 8:30 am PST	Break 12:45 - 1:45 pm PST
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Additional Learning

Designing for Accessibility under ADA Standards and 2021 IBC
- Tues, Jan 11, 2022 | 8:30 am - 4:30 pm CST

The 2021 Minimum Standards for ALTA/NSPS Land Title Surveys
- Wed, Jan 12, 2022 | 8:30 am - 2:30 pm CST

Technical Writing Workshop for Design Professionals
- Wed, Jan 12, 2022 | 8:30 am - 5:00 pm CST

How to Read a Geotechnical Report
- Fri, Jan 14, 2022 | 11:00 am - 2:15 pm CST

Handling Ethical Issues in Construction
- Tues, Jan 18, 2022 | 3:00 - 5:00 pm CST

Deep Dive: Unlocking the Mysteries of Native Plant Selection
- Wed, Jan 19, 2022 | 2:00 - 4:00 pm CST

Continuing Education Credit Information

This webinar is open to the public and offers a 7.0 PDH non-mandatory continuing education opportunity to Washington engineers and geologists, and 7.0 HSW PDHs to Washington architects and landscape architects. Courses and providers are not subject to preapproval in Washington.

This webinar offers 7.0 PDHs to Oregon engineers, registered geologists (RG) and certified engineering geologists (CEG), and 7.0 HSW continuing education hours to Oregon architects and landscape architects. Courses and providers are not subject to preapproval in Oregon.

Engineers, geologists, architects and landscape architects in other states will be able to apply the credits earned at this webinar, in most cases. Refer to specific state rules to determine course eligibility. HalfMoon Education is not seeking approval for landscape architects in New Jersey, or geologists in North Carolina, South Carolina or Delaware.

The American Institute of Architects Continuing Education System has approved this course for 7.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA CES.

The Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved HalfMoon Education as a Preferred Provider of continuing education (No. 1232). Course approval is pending in the specialty area of Sitework. Visit this course listing at www.halfmoonseminars.org for updates on pending credit.

This webinar has been approved by the Association of State Floodplain Managers for 7.0 CECs for floodplain managers.

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Completion certificates will be awarded to participants who complete this event, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Timber Frame Design and Construction
- Wed, Jan 19, 2022 | 9:00 am - 4:30 pm CST

Construction Cost Estimating
- Thurs, Jan 20, 2022 | 8:30 am 4:30 pm CST

Current Issues for Land Surveyors
- Mon, Jan 24, 2022 | 8:30 am - 3:30 pm CST

Erosion and Sediment Control
- Tues, Jan 25, 2022 | 8:30 am - 5:00 pm CST

A Drainage Technology Update
- Tues, Jan 25, 2022 | 10:00 am - 12:00 pm CST

Current Issues for Landscape Architects in the West
- Thurs, Jan 27, 2022 | 11:00 am - 3:30 pm CST
- Fri, Jan 28, 2022 | 11:00 am - 2:30 pm CST

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Registration

Slope Stabilization and Landslide Prevention in the Pacific Northwest
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How to Register		Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ 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.
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Checks: Make payable to HalfMoon Education Inc. Credit Card: <i>Mastercard, Visa, American Express, or Discover</i> Credit Card Number: _____ Expiration Date: _____ CVV2 Code: _____ Cardholder Name: _____ Billing Address: _____ City: _____ State: _____ Zip: _____ Signature: _____ Email: _____		