

Agenda

Presented by Curran E Mohney

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 |
| Buttressing for streambank stabilization and environmental considerations | | |
| Drainage | Reinforcement | |
| Installing earth retention structures | | |
| Rock slope stabilization | Debris flow stabilization | |
| 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

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Slope Stabilization and Landslide Prevention in the Pacific Northwest

Live, Interactive Webinar - Monday, June 10, 2024

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PO Box 278
Altoona, WI 54720-0278



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 Inc.,
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Slope Stabilization and Landslide Prevention in the Pacific Northwest

Live, Interactive Webinar - Monday, June 10, 2024



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

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

.7 CEUs (Sitework)

Floodplain Managers

7.0 ASFPM CECs



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Webinar Information

Online - Monday, June 10, 2024	
Log into Webinar	Break
8:00 - 8:30 am PDT	12:45 - 1:15 pm PDT
Morning Session	Afternoon Session
8:30 am - 12:45 pm PDT	1:15 - 4:30 pm PDT

Tuition
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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 7.0 PDHs for professional engineers, 7.0 HSW continuing education hours for licensed architects, and 7.0 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

The American Institute of Architects Continuing Education System has approved this course for 7.0 HSW LUs (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 this event for .7 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

This Association of State Floodplain Managers has approved this course for 7.0 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).

On-Demand Credits
The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
7.0 HSW LUs (AIA), 7.0 HSW PDHs (LA CES), 7.0 ASFPM CECs

Additional Learning

Oregon Water Rights and Regulations
Online | Thursday, June 6, 2024 | 8:30 am - 4:30 pm PDT
Continuing Education Credits
Professional Engineers: 6.5 PDHs
Geologists: 6.5 PDHs | Certified Planners: CM|6.5
Attorneys: Pending Approval for 6.5 General CLE Hours

Agenda Topics:
Understanding Oregon Surface Water and Groundwater Rights
Complying with Water Quality Regulations
Ethical Issues in Water Use and Regulation
Water Utility Regulation
Agricultural Water Use
Presented by
Elizabeth Howard *Shareholder at Schwabe, Williamson & Wyatt, P.C. in Portland, OR*
Sarah R. Liljefelt Attorney at Dunn Carney LLP in Portland, OR
Maureen S. Bayer *Shareholder at Jordan Ramis PC in Portland, OR*
Nellie Barnard *Shareholder at Schwabe, Williamson & Wyatt, P.C. in Portland, OR*
Rosalyn DiLillo Knock *Knock Associate with Schwabe, Williamson & Wyatt, P.C. in Seattle, WA*
Irion A. Sanger *Attorney at Sanger Law PC in Portland, OR*
Natascha Smith *Assistant Attorney General with the Oregon Department of Justice, General Counsel Division, Business Activities Section*
Brian R. Sheets *Owner of BRS Legal, LLC, in Ontario, OR*

Wetland Preservation, Restoration, Creation and Enhancement
- Online | Tuesday, May 21, 2024 | 8:00 - 10:00 am PDT

Floodplain Modeling, Mapping and Regulation
- Online | Wednesday, May 29, 2024 | 8:00 am - 12:00 pm PDT
- Online | Thursday, May 30, 2024 | 8:00 am - 12:00 pm PDT

How to Use Less “Toxic” Weed Control
- Online | Wednesday, May 29, 2024 | 8:00 - 10:00 am PDT

Understanding Subsidence Caused by Groundwater Withdrawal
- Online | Wednesday, May 29, 2024 | 10:00 am - 12:00 pm PDT

Deep Dive into Concrete and Rigid Pavements for Streets, Roads and Parking Areas
- Online | Thursday, May 30, 2024 | 12:00 - 2:00 pm PDT

Rain Garden Design, Construction and Maintenance
- Online | Thursday, May 30, 2024 | 7:00 am - 2:00 pm PDT

The Tree Course: Science, Design, and Sustainability
- Online | Friday, May 31, 2024 | 7:00 am - 2:30 pm PDT

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