

# Agenda

*Presented by Curren E Mohney*

## Slope Stabilization and Landslide Prevention Day One

Monday, November 30, 2020 | 9:00 am - 1:30 pm PST (including a 30-min. break)

### Slope Movement and Mechanisms

Types 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 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

## Slope Stabilization and Landslide Prevention Day Two

Tuesday, December 1, 2020 | 9:00 am - 1:00 pm PST (including a 30-min. break)

### Slope Stabilization Methods (continued)

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

## Slope Stabilization and Landslide Prevention

Online - Mon., Nov. 30 and Tues, Dec. 1, 2020



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## Learning Objectives

### You'll be able to:

**Identify** and **describe** types of slope movement and instability, and discuss the influence of water in soil and rock mechanics.

**Distinguish** between natural slopes and engineered slopes, and explain how geological conditions, soil types and topography, along with surface and groundwater conditions, affect slope stability.

**Describe** how slope stability is analyzed and how that information is used to determine which slope stabilization methods are appropriate.

**Identify** the components of landslide risk, and develop strategies to mitigate landslide risk.



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HalfMoon Education Online Learning

# Slope Stabilization and Landslide Prevention

*Live, Interactive Webinar Series*

*Monday, November 30 and Tuesday, December 1, 2020*



**Describe** types of slope movement and failure

**Investigate** the stability of natural and engineered slopes

**Evaluate** slope stabilization methods, including vegetation, unloading and reinforcement

**Explore** rock slope stabilization

**Assess** landslide hazard risk

**Explore** case histories in landslide mitigation

### Continuing Education Credits

#### Professional Engineers

7.5 PDHs

#### Architects

7.5 HSW CE Hours

7.5 AIA LU|HSW

#### Landscape Architects

7.5 HSW CE Hours

7.5 LA CES HSW PDHs

#### Floodplain Managers

7.5 ASFPM CECs

#### International Code Council

.75 CEUs (Sitework)



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# Faculty

**Curren E Mohnhey** *Engineering Geologist*

Mr. Mohnhey 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. Mohnhey 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. Mohnhey has been involved in the investigation, design, and mitigation of hundreds of landslides and rockfalls.

# Webinar Information

## Day One: Monday, November 30, 2020

9:00 am - 1:30 pm PST (including a 30-min. break)

## Day Two: Tuesday, December 1, 2020

9:00 am - 1:00 pm PST (including a 30-min. break)

*(please log into the webinar 15 - 30 minutes before start time)*

## Tuition

**\$299** for individual registration

**\$199** for three or more registrants from the same company at the same time.

**Included with your registration:** PDF seminar manual.

## How to Register

- Visit us online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org)
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit [www.gotowebinar.com](http://www.gotowebinar.com).

**Cancellations:** Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

## Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

# Additional Learning

## Retaining Wall Design and Global Stability Analysis

- Mon., Nov. 2, 2020 | 9:00 am – 5:00 pm CST

## Stormwater Basins and Underground Systems

- Thurs., Nov. 5, 2020 | 12:00 - 4:00 pm CST  
- Fri., Nov. 6, 2020 | 12:00 - 3:30 pm CST

## Construction Cost Estimating

- Wed., Nov. 11, 2020 | 7:30 am - 3:30 pm CDT

## Shallow Foundation Design

- Wed., Nov. 11, 2020 | 11:00 am - 2:15 pm CST  
- Thurs., Nov. 12, 2020 | 11:00 am - 2:15 pm CST

## High-Performance Building Envelopes: Designing for Energy Efficiency and Durability

- Thurs., Nov. 12, 2020 | 11:00 am - 2:45 pm CST  
- Fri., Nov. 13, 2020 | 11:00 am - 2:45 pm CST

## Threats to Trees

- Thurs., Nov. 12, 2020 | 11:00 am - 3:00 pm CST  
- Fri., Nov. 13, 2020 | 11:00 am - 2:30 pm CST

## Living with Wildlife

- Fri., Nov. 13, 2020 | 11:00 am - 2:30 pm CST

## Wastewater Collection and Treatment System Design

- Mon., Nov. 16, 2020 | 8:30 am - 4:30 pm CST

## Geothermal Heating and Cooling: Technology and Applications

- Tues., Nov. 17, 2020, 8:30 am – 4:30 pm CST

## Introduction to Dam Safety, Inspection and Rehabilitation

- Tues., Nov. 17, 2020, 8:30 am – 5:00 pm CST

For more information and other online learning opportunities visit: [www.halfmoonseminars.org](http://www.halfmoonseminars.org)

## Continuing Education Credit Information

This webinar offers 7.5 PDHs to professional engineers and 7.5 HSW continuing education hours to architects in all states. It offers 7.5 HSW continuing education hours to landscape architects in most states. HalfMoon Education is not seeking landscape architect approval in Florida, New Jersey, or North Carolina.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina (S-0130), and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2), §79-1.5(i)(2)). Courses approved by the AIA/CES qualify for Florida and New Jersey architects. Other states do not preapprove continuing education providers or courses.

This course has been approved by the American Institute of Architects Continuing Education System 7.5 LU|HSW (Sponsor No. J885) and the Landscape Architect Continuing Education System for 7.5 HSW PDHs. Only full participation is reportable to the AIA/CES and LA CES.

The Association of State Floodplain Managers has approved this event for 7.5 CECs for certified floodplain managers.

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

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).

# Registration

## Slope Stabilization and Landslide Prevention

Live, Interactive Webinar - Monday, November 30, 2020 and Tuesday, December 1, 2020

| How to Register                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |
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## Tuition

- ( ) **I will be attending the live webinar.** Single Registrant - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.
- ( ) **I am not attending.** Please send me the webinar recording:
- ☐ Streamable MP4 Video/PDF Manual for **\$279.00**.
- ☐ USB Video/PDF Manual for **\$279.00**.

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