

Agenda

Presented by Daniel P. Messmer, P.E., D. GE

Slope Mechanics and Movement

- Types of slope movement and instability
- Rock fall and rockslides
 - Slump
 - Mudslides

Analyzing the stability of slopes

Slope stability concepts

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

Evaluating types of slopes

- Natural slopes
- Engineered slopes

Methods of slope stability analysis

Slope Stabilization Methods

- Use of vegetation
- Surface protection
- Unloading
- Buttressing
- Draining
- Reinforcing
- Installing earth retention structures
- Rock slope stabilization
- Geosynthetics

Preserving Streambeds, Shorelines and Drainage Channels

- Preserving streambeds
- Maintaining shoreline
- Stormwater management and drainage

Can't Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Slope Stabilization and Landslide Prevention
Boalsburg, PA - Friday, October 12, 2018



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

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Learning Objectives

You'll be able to:

Identify the methods and causes of slope failure.

Enhance your ability to evaluate the stability of natural and engineered slopes.

Consider the impact of soils, topography, and surface and groundwater conditions.

Evaluate slope stabilization methods including unloading, draining and reinforcing; using retaining walls; and more.

Apply what you have learned to discussion of slope stabilization case studies.

Preserve streambeds, shorelines and drainage channels.



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Review types of slopes, geologic conditions, and soils and topography

Learn about methods and causes of slope failure

Receive practical guidance on analyzing the stability of slopes
Explore slope stabilization methods

Discuss slope stabilization case studies

Continuing Education Credits

Professional Engineers
7.0 PDHs

Architects
7.0 HSW Contact Hours
7.0 AIA HSW Learning Units

Landscape Architects
7.0 HSW Clock Hours
7.0 LA/CES HSW PDHs

Floodplain Managers
7.0 ASFPM CECs

Contractors
Non-Credit Continuing Ed.



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Faculty

Daniel P. Messmer, P.E., D. GE
Project Manager with The Gateway Engineers, Inc., in Pittsburgh

Mr. Messmer has over 30 years of engineering experience in analysis, design, plan/specification development, and project management/personnel supervision for geotechnical, foundation and structural engineering projects in the transportation, industrial, municipal and commercial fields of civil engineering. Throughout his career he has placed an emphasis on quality control and staff training. Mr. Messmer is a member of the American Society of Civil Engineers, the American Concrete Institute, the American Society of Highway Engineers and the Society of American Military Engineers. He earned his B.S. degree in Civil Engineering from the University of Pittsburgh. Mr. Messmer was accepted into the Academy of Geo-Professionals in 2013.

Seminar Information

Mountain View Country Club 310 Elks Club Road Boalsburg, PA 16827 (814) 466-7231	Registration 8:00 - 8:30 am Morning Session 8:30 - 11:45 am	Lunch (On your own) 11:45 am - 12:45 pm Afternoon Session 12:45 - 5:00 pm
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Tuition
\$279 for individual registration
\$259 for three or more simultaneous registrations.
Each registration includes a complementary continental breakfast and printed seminar manual.
Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.
How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar (CDT), and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the CD/manual package. You may also send another person to take your place.

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Additional Learning

Webinar Series

- Community Solar and Rooftop Solar**
 - **Community Solar**
Wed., Sept. 5, 2018, 11:00 AM - 2:15 PM CDT
 - **Design Your Solar Roof**
Thurs., Sept. 6, 2018, 11:00 AM - 2:15 PM CDT
- Seismic Design and Construction**
 - **Seismology and Building Codes**
Wed., Sept. 12, 2018, 11:00 AM - 3:30 PM CDT
 - **Seismic Design of Building Structures**
Thurs., Sept. 13, 2018, 11:00 AM - 3:30 PM CDT
- Small Wind Energy Systems**
 - **Small Wind Energy System Components**
Thurs., Sept. 20, 2018, 11:00 AM - 1:00 PM CDT
 - **Small Wind Energy Siting and Sizing**
Fri., Sept. 21, 2018, 11:00 AM - 1:00 PM CDT
- International Green Construction Code**
 - **Introduction to the International Green Construction Code (IgCC)**
Thurs., Sept. 20, 2018, 11:00 AM - 12:30 PM CDT
 - **Chapters 4-5: Site Development and Material Use**
Thurs., Sept. 20, 2018, 1:00 - 2:30 PM CDT
 - **Chapters 6-9: Energy, Water, Environmental Quality and Building Commissioning**
Fri., Sept. 21, 2018, 11:00 AM - 12:30 PM CDT
 - **Chapters 10-11: Existing Buildings**
Fri., Sept. 21, 2018, 1:00 - 2:30 PM CDT
- Slope Stabilization and Landslide Prevention**
 - **Analyzing the Stability of Slopes**
Tues., Sept. 25, 2018, 11:00 AM - 2:15 PM CDT
 - **Slope Stabilization Methods**
Thurs., Sept. 27, 2018, 11:00 AM - 2:15 PM CDT

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education clock hours to landscape architects in Pennsylvania. Educators and courses are not subject to pre-approval in Pennsylvania.

This course offers a non-credit continuing education opportunity to Pennsylvania architects. This seminar is approved by the American Institute of Architects for 7.0 HSW Learning Units (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Only full attendance can be reported to the AIA/CES and LA/CES. Professional engineers, architects, and landscape architects seeking continuing education credit in other states will be able to apply the hours earned at this seminar, in most cases. Refer to specific state rules to determine eligibility. HalfMoon Education is deemed an approved continuing education sponsor for New York architects and landscape architects. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota.

The Association of State Floodplain Managers has approved this seminar for 7.0 CECs for certified floodplain managers.

Attendance will be monitored and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Registration

Slope Stabilization and Landslide Prevention

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How to Register	Registrant Information	
Online: www.halfmoonseminars.org	Name: _____	
Phone: 715-835-5900	Company/Firm: _____	
	Address: _____	
Fax: 715-835-6066	City: _____ State: _____ Zip _____	
	Occupation: _____	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Email: _____	
	Phone: _____	
	Additional Registrants:	
	Name: _____	
	Occupation: _____	
Complete the entire form. Attach duplicates if necessary.	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.	

Tuition
() I will be attending the live seminar. Single Registrant - \$279.00 . Three or more registrants from the same company registering at the same time - \$259.00 each.
() I am not attending. Please send me the CD manual package for \$289.00 . (S&H included. Please allow five weeks from seminar date for delivery)
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: _____