

Agenda

Presented by Bill Simpson, PE

Soil Mechanics and Slope Stabilization, Failures and Repairs Day One

Tuesday, December 8, 2020 | 10:00 am - 1:45 pm CST (including a 15-min. break)

Soil Mechanics and Classification

- Properties of soils and the importance of recognizing soil properties
- Formation of soils Types of soils
- Soil investigation Site reconnaissance
- Geology and visual observations
- Drilling and boring Test pits
- Establishing appropriate investigational methods
- Obtaining and reviewing geotechnical reports

Slope Stability Analysis

- Fundamental soil characteristics and slope instability
- Engineering mechanics underlying slope instability
- Geologic conditions and construction practices
- Field observations to distinguish types of instability
- Construction practices to improve or restore stability
- Examining causes of slope instability
- Use of vegetation Surface protection
- Evaluating slopes Slope stability analysis
- Engineered slopes

Soil Mechanics and Slope Stabilization, Failures and Repairs Day Two

Wednesday, December 9, 2020 | 10:00 am - 2:15 pm CST (including a 15-min. break)

Reinforced Slope Stability Analysis

- Geosynthetic materials and their properties
- Visually identifying geosynthetic materials as to type method of manufacture, relative strength, relative permeability, and relative cost
- Geosynthetics and their roles in slope stability
- Other materials used in slope stability
- Deep seated stability analysis
- Calculations and software
- Exercise/example

Earth Structure Failures and Fixes/Site Layout and Prevention

- How to prevent a potential problem or failure
- How to recognize a potential problem or failure in the field
- Role and responsibilities to ensure long term structure success
- Typical causes of problems or failures with reinforced/unreinforced slopes
- Case studies/examples of failures and repairs due to slope instability

Soil Mechanics and Slope Stabilization, Failures and Repairs
Online - Tues., December 8 and Wed., December 9, 2020

Learning Objectives

You'll be able to:

Explain the importance of recognizing soil properties, as well as the need to investigate soil composition, before undertaking site development.

Identify types of slopes and use soil investigation techniques, such as drilling, boring and test pits, to evaluate site soils.

Examine causes of slope instability and recognize potential problems in the field.

Explore strategies to improve or restore slope stability, including vegetation and the use of geosynthetic materials.

HalfMoon Education Online Learning

Soil Mechanics and Slope Stabilization, Failures and Repairs

Live, Interactive Webinar Series

Tuesday, December 8 and Wednesday, December 9, 2020



Review soil mechanics and discuss soil characteristics

Use soil investigation techniques to classify site soils

Identify characteristics of natural and engineered slopes

Examine causes of slope instability

Reinforce slope stability using geosynthetics and vegetation

Continuing Education Credits

Professional Engineers

7.5 PDHs

Architects

7.5 HSW CE Hours

AIA

7.5 LU|HSW

Landscape Architects

7.5 HSW CE Hours

LA CES

7.5 HSW PDHs

International Code Council

.75 CEUs (Sitework)



Faculty

Bill Simpson, PE

Geotechnical Structure Design Specialist at Engineered Earth Solutions, LLC

Mr. Simpson designs and reviews shop drawings for construction and repair of earth structures in the public and private sectors in all 50 states, and consistently works on more than 1,200 projects and 10 million square feet each year. He performs site visits for new project reconnaissance, construction verification, and construction assistance. Mr. Simpson manages, supervises, instructs, and mentors a team of staff engineers to ensure strict deadlines are met for construction schedules while ensuring design and analysis accuracy. He works with owners, site designers, and contractors to provide designs which are not only structurally sufficient but also financially responsible. Mr. Simpson earned his B.S.C.E. and M.S.C.E. degrees from Georgia Institute of Technology.

Webinar Information

Day One: Tuesday, December 8, 2020

10:00 am - 1:45 pm CST (including a 15-min. break)

Day Two: Wednesday, December 9, 2020

10:00 am - 2:15 pm CST (including a 15-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
- 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.

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.

Additional Learning

Geothermal Heating and Cooling: Technology and Applications

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

2018 International Building Code

- Wed., Nov. 18, 2020 | 9:00 am - 5:00 pm CST

Practical Site Engineering: Science & Techniques

- Wed., Nov. 18, 2020 | 11:00 am - 3:15 pm CST

- Thurs., Nov. 19, 2020 | 11:00 am - 2:15 pm CST

Select Issues in

Construction Cost Estimating

- Wed., Nov. 18, 2020 | 9:30 am - 4:15 pm CST

Slope Stabilization and Landslide Prevention

- Wed., Nov. 18, 2020 | 8:30 am - 4:30 pm CST

Complying with Fire Protection and Building Codes

- Thurs., Nov. 19, 2020 | 9:30 am - 5:30 pm CST

Construction Fraud - From Detection to Prevention

- Fri., Nov. 20, 2020 | 9:00 am - 5:00 pm CST

Erosion and Sediment Control

- Fri., Nov. 20, 2020 | 10:00 am - 4:00 pm CST

2018 International Existing Building Code: Prescriptive and Performance Compliance Methods

- Fri., Nov. 20, 2020 | 10:00 am - 2:30 pm CST

Construction Project Management

- Mon., Nov. 23, 2020 | 11:00 am - 3:15 pm CST

Drone Applications for Utilities

- Mon., Nov. 23, 2020 | 10:00 am - 4:50 pm CST

For more information and other online learning opportunities visit: 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 to landscape architects licensed in all states, except 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.

This course is approved by the International Code Council for .75 CEUs in the specialty are 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).


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.

Registration

Soil Mechanics and Slope Stabilization, Failures and Repairs

Online - Tues., December 8 and Wed., December 9, 2020

How to Register	
Online: www.halfmoonseminars.org	
Phone: 715-835-5900	
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Complete the entire form. Attach duplicates if necessary.	
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. <input type="checkbox"/>  I need special accommodations. Please contact me.	

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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