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

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.

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.
Additional Learning

Geothermal Heating and Cooling: Technology and Applications
- Tues., Nov. 17, 2020, 8:30 am – 10:30 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, 1:00 pm – 5:15 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

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 $15 service charge for each registrant. Cancellations within 48 hours will receive credits toward another webinar or the self-study package. You may also authorize another person to take your place.

Continuing Education Credit Information

This webinar offers 7.5 PDHs to professional engineers and 7.5 HSW continuing education hours to 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. CE21700955), Maryland, New Jersey (Approval No. 26GD000000170071), North Carolina (S-0150), and North Dakota. HalfMoon Education is an approved continuing education sponsor for New York, 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 Florida Board of Architecture and Landscape Architects 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 Architects 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 area of StewArt (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

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

Soil Mechanics and Slope Stabilization, Failures and Repairs

How to Register
- Online - Tues., December 8 and Wed., December 9, 2020

For more information, visit our website, or visit www.halfmoonseminars.org

Mail-in or fax the attached form to 715-835-6066

Complete the entire form. Attach duplicates if necessary.

© 2020 HEI #20 USSMSSF1 12 8 WEBR TB - 20 USSMSSF2 12 9 WEBR TB