

Agenda

Presented by Bill Simpson, PE

Retaining Wall Design and Slope Stabilization Techniques Day One

Wednesday, November 4, 2020 | 11:00 am - 3:00 pm MDT (including a 30-min. break)

Retaining Walls: What They Do and How They Do It

- Identifying and quantifying forces acting on retaining walls
- Weight of the wall
 - Pressure on foundation of wall
 - Loads on retained soil
 - Vibration
 - Equations and examples
 - Pressure from retained soil
 - Characteristics of soil
 - Impacts of water—liquid and frozen
 - Expansion/contraction

Geosynthetics and Retaining Walls, Embankments and Slopes

- | | |
|---|--------------------------|
| Calculations and software | Types of retaining walls |
| Embankments | Slopes |
| Materials | Alternatives |
| Exercise | |
| • Learn to visually identify geosynthetics as to type, method of manufacture, relative strength, relative permeability, and relative cost | |

Slope Stabilization Techniques

- Examining slope failures
Slope stability analysis
Stabilization techniques
- Unloading
 - Reinforcement
 - Drainage
 - Mechanical stabilization

Retaining Wall Design and Slope Stabilization Techniques Day Two

Thursday, November 5, 2020 | 11:00 am - 3:00 pm MDT (including a 30-min. break)

Slope Stabilization Case Histories

- 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

Retaining Wall/Slope Failures and Fixes

- How to prevent a potential problem or failure
How to recognize a potential problem or failure in the field
Typical causes of problems or failures with geotechnical structures
Case studies/examples of failures and repairs

Retaining Wall Design and Slope Stabilization Techniques

Online - Wed., November 4 and Thurs., November 5, 2020

Learning Objectives

You'll be able to:

Identify and quantify forces that act on retaining walls.

Explore different types of retaining walls and applications for each.

Identify geosynthetics as to type, method of manufacture, relative strength, permeability and cost.

Analyze slope stability and evaluate slope stabilization techniques, including unloading, reinforcement and mechanical stabilization.

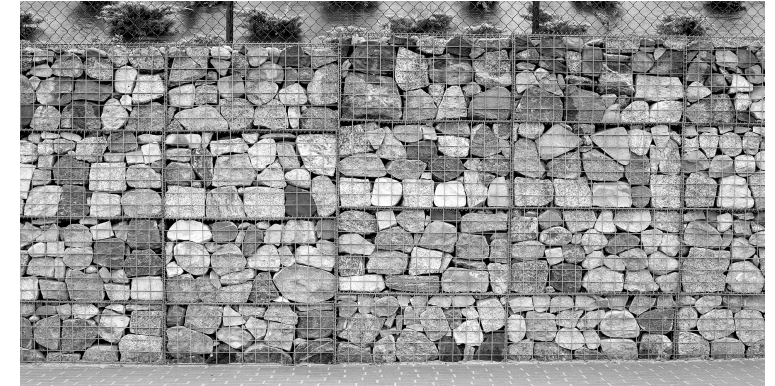
Review case studies of retaining wall and slope failures and repairs.

HalfMoon Education Online Learning

Retaining Wall Design and Slope Stabilization Techniques

Live, Interactive Webinar Series

Wednesday, November 4 and Thursday, November 5, 2020



Review the forces acting on retaining walls, including pressure from retained soil, and consider the impacts of groundwater

Understand typical causes of failure for slopes and retaining walls and learn to prevent them

Identify geosynthetics as to type, method of manufacture, relative strength, permeability and cost

Get tips on preventing retaining wall/slope failures

Utilize slope stabilization techniques such as unloading and mechanical stabilization

Continuing Education Credits

Professional Engineers

7.0 PDHs

Architects

7.0 HSW CE Hours

7.0 AIA LU|HSW

Landscape Architects

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Floodplain Managers

7.0 ASFPM CECs

International Code Council

.7 CEUs (Sitework)



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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 over 30 states, and he 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: Wednesday, November 4, 2020
11:00 am – 3:00 pm MDT (including a 30-min. break)

Day Two: Thursday, November 5, 2020
11:00 am – 3:00 pm MDT (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
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

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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

2018 International Residential Code: Non-Structural Design
- Fri., October 23, 2020 | 11:00 am – 3:30 pm CDT

How to Navigate the New Federal Navigable Waters Protection Rule
- Fri., October 23, 2020 | 12:00 - 2:00 pm CDT

National Electrical Code 2020
- Fri., October 23, 2020 | 8:30 am - 5:00 pm CDT

International Building Code 2018
- Mon., October 26, 2020 | 9:00 am - 5:30 pm CDT

Passive House: Planning and Design
- Tues., October 27, 2020 | 8:30 am - 4:30 pm CDT

Aerial Mapping: Technologies and Procedure
- Tues., October 27, 2020 | 8:30 am - 12:00 pm CDT
- Wed., October 28, 2020 | 8:30 am - 12:15 pm CDT

Introduction to the International Green Construction Code (IgCC)
- Wed., October 28, 2020 | 11:00 am - 2:15 pm CDT
- Thurs., October 29, 2020 | 11:00 am - 2:15 pm CDT

Special Inspections under the 2018 International Building Code Chapter 17
- Thurs., October 29, 2020 | 9:30 am - 4:20 pm CDT

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

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

For more information and other online learning opportunities visit:
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Continuing Education Credit Information

This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in all states. It offers 7.0 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 7.0 LU|HSW (Sponsor No. J885) and the Landscape Architect Continuing Education System for 7.0 HSW PDHs. Only full participation is reportable to the AIA/CES and LA CES.

The Association of State Floodplain Managers has approved this course for 7.0 CECs.

This course is approved by the International Code Council for .7 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).

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Registration

Retaining Wall Design and Slope Stabilization Techniques
Live, Interactive Webinar - Wednesday, November 4 and Thursday, November 5, 2020

How to Register	
Online: www.halfmoonseminars.org	
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Complete the entire form. Attach duplicates if necessary.	
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Tuition	
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