Agenda

Presented by Bill Simpson, P.E.

Retaining Walls: What They Do and How They Do It
- Identifying and quantifying forces acting on retaining walls
- Weight of the wall
- Pressure from retained soil
- Pressure on foundation of wall
- Characteristics of soil
- Loads on retained soil
- Impacts of water
- Equations and examples

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 deep seated failures
- Methods of slope stability analysis
- Global stability and site layout
- Stabilization techniques
- Drainage
- Reinforcement/mechanical stabilization
- Fundamental soil characteristics and global instability
- Engineering mechanics underlying global instability
- Field observations to distinguish types of instability
- Construction practices to improve or restore stability
- Site layout practices to improve stability/prevent instability

Retaining Wall/Slope Failures and Fixes
- How to prevent a potential problem or failure through site layout
- How to prevent a potential problem or failure through proper design techniques
- Roles and responsibilities to ensure structure success
- 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

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Retaining Wall Design and Slope Stabilization Techniques
Live, Interactive Webinar - Friday, May 14, 2021

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

Learning Objectives

You'll be able to:

Identify and ***quantify*** forces that act on retaining walls.

Explore different types of pressure from retained soil and the foundation of the wall.

Understand the impacts of water and the implications has on retaining walls.

Learn about the retaining wall calculations and available software.

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

HalfMoon Education Online Learning

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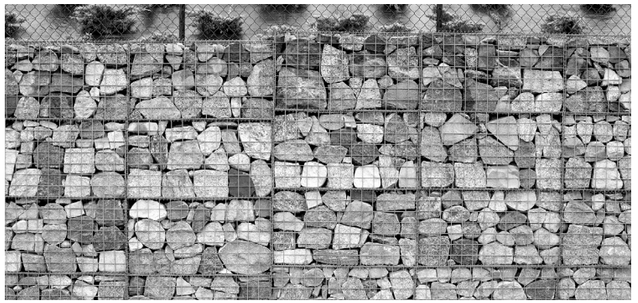

Analyze slope stability and evaluate slope stabilization techniques.

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

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

Recognize potential stabilization problems or failures.

Examine fundamental soil characteristics and global instability.

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CE Hours

AIA
6.5 LU|HSW

Landscape Architects
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6.5 ASFPM CECs

International Code Council
.65 CEUs (Sitework)

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Faculty

Bill Simpson, P.E. *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 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.

Additional Learning

Foundations on Expansive Soils
- Wed, April 14, 2021|8:30 am - 5:30 pm CDT

Healthy HVAC Design Primer for Building Professionals
- Fri, April 16, 2021|8:30 am - 5:00 pm CDT

Seismic Design and Construction
- Fri, April 16, 2021|8:30 am - 5:00 pm CDT

Commercial Site Pavement Design, Installation and Maintenance
- Fri, April 16, 2021|8:30 am - 4:30 pm CDT

The Tree Course: Science, Design, and Sustainability
- Fri, April 16, 2021|9:00 am - 4:30 pm CDT

Deep Dive into Geosynthetics and Mechanically-Stabilized Earth (MSE) Wall Design
- Fri, April 16, 2021|10:00 am - 1:00 pm CDT

The 2021 International Fire Code
- Thurs, April 22, 2021|8:30 am - 5:00 pm CDT

Low Impact Development
- Thurs, April 22, 2021|10:00 am - 2:00 pm CDT
- Fri, April 23, 2021|10:00 am - 12:45 pm CDT

2021 International Residential Code: Residential Non-Structural Design
- Fri, April 23, 2020|11:00 am - 3:30 pm CDT

Passive House: Planning and Design
- Mon, April 26, 2021|8:30 am - 4:00 pm CDT

Stormwater Basins and Underground Systems
- Mon, April 26, 2021|8:30 am - 4:30 pm CDT

Deep Dive into Landscaping for Climate Change
- Mon, April 26, 2021|9:00 am - 12:15 pm CDT

Structural Forensic Engineering
- Tues, April 27, 2021|7:30 am - 4:00 pm CDT

Construction Cost Estimating
- Wed, April 28, 2021|8:30 am - 4:30 pm CDT

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and other online learning opportunities visit:
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Webinar Information

Log into Webinar
8:00 - 8:30 am EDT

Break
12:00 - 1:00 pm EDT

Morning Session
8:30 am - 12:00 pm EDT

Afternoon Session
1:00 - 4:30 pm EDT

Tuition

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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.

Continuing Education Credit Information

This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects licensed in Georgia. It offers 6.5 HSW continuing education hours to landscape architects in all states, except Florida, New Jersey, and North Carolina.

Engineers, architects, and landscape architects seeking continuing education credit in other states will be able to claim the hours earned through this course, in most cases. Refer to specific state rules to determine eligibility.

This course has been approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885) and the Landscape Architect Continuing Education System for 6.5 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 6.5 CECs for certified floodplain managers.

The International Code Council has approved this webinar for .65 CEUs in the specialty area of Sitework (HalfMoon Education 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

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How to Register

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( ) **I am not attending.** Please send me the webinar recording:
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