Agenda

Presented by Bill Simpson, P.E.

Types of Retaining Walls and Appropriate Applications
- Common types of walls commonly used in today's construction
- Best applications of a cast-in-place concrete wall
- Alternatives to cast-in-place retaining walls
- Advantages to using gravity retaining walls
- Different types of gravity walls
- Basic concepts of mechanically stabilized earth (MSE) systems
- Best applications of an MSE wall and/or slope

Retaining Wall Design
- Defining "the wall"
- Identifying forces on a retaining wall
- How to account for and resist soil pressure
- How water pressure impacts a retaining wall
- The properties of the soil that contribute to the wall design
- Equations and examples

Slope Stabilization
- Unreinforced slope stability analysis
  - Fundamentals of slope instability
  - Soil and geological mechanics related to slope instability
  - How geologic conditions affect slope stability
  - Observations of slope instability
  - Construction practices to improve or restore slope stability
  - Equations, calculations and example of an unreinforced slope
- Reinforced slope stability analysis
  - Geosynthetic properties for use in slope stabilization
  - Deep-seated stability analysis
  - Equations, calculations, and example of using geosynthetics to reinforce a slope
  - Soil properties and conditions that contribute to slope stability
  - Material required for the exposed face of the slope to maintain long-term stability

Retaining Wall and Slope Stabilization Case Histories
- Preventing problems or failures of walls and slopes through improved site layout
- Commonly overlooked design code requirements related to retaining wall layout and design
- Roles and responsibilities of the design and construction team to ensure structure success
  - Typical causes of problems or structure failure
  - Recognizing and preventing a problem during construction
  - How water (both surface and below ground) effects an earth structure
  - What measures to take during construction to ensure long term earth structure success
- Case histories and examples of failed structures

Retaining Wall Design and Slope Stabilization Techniques
Live, Interactive Webinar - Wednesday, August 7, 2024

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

Learning Objectives

You'll be able to:

Discuss applications for cast-in-place concrete walls, gravity walls and mechanically stabilized earth walls.

Identify forces acting on retaining walls, and consider the properties of site soils.

Analyze the stability of unreinforced and reinforced slopes.

Get tips on best practices for preventing failures of walls and slopes.

HalfMoon Education Inc.,
Your LIVE Education Leader Presents

Retaining Wall Design and Slope Stabilization Techniques

Live, Interactive Webinar - Wednesday, August 7, 2024

Discuss cast-in-place concrete walls, gravity walls and mechanically stabilized earth walls

Identify the forces that act on walls

Analyze the stability of unreinforced slopes and reinforced slopes

Explore retaining wall and slope stabilization best practices

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International Code Council
.7 CEUs (Sitework)

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Webinar Information

Online - Wednesday, August 7, 2024

Log into Webinar
8:30 - 9:00 am CDT

Break
12:45 - 1:15 pm CDT

Morning Session
9:00 am - 12:45 pm CDT

Afternoon Session
1:15 - 5:00 pm CDT

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Faculty

Bill Simpson, P.E.
Geotechnical Structure Design Specialist at Gradelta Engineering
Mr. Simpson founded Gradelta Engineering in 2020 with the intent to help clients better understand the combination of geotechnical and structural engineering that he has worked with for the past 20 years. He earned his B.S.C.E. and M.S.C.E. degrees from Georgia Institute of Technology. He currently provides engineering services to contractors and fellow engineers for earth structure pricing, along with the plans and calculations needed for construction. He frequently consults with clients regarding the optimal structure type and location on the construction site to minimize risk and maximize usable space. He also works in the education sector providing not just seminars such as this one, but also acting as a subject matter expert creating study guide and test prep content for the NCEES Professional Civil Engineer exam. Mr. Simpson has also worked with lawyers and insurance companies during forensic investigation and lawsuits surrounding retaining walls and slope failures. His hope is that through the instructional services that he currently provides, slopes will remain stable and retaining wall failure will be eliminated.

Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers, 7.0 HSW continuing education hours for licensed architects, and 7.0 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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Additional Learning

Asphalt Pavement: Production, Placement and Preservation
- Friday, July 12, 2024 | 1:00 - 5:15 pm CDT

Restoring Natural Spaces
- Friday, July 12, 2024 | 8:30 am - 4:30 pm CDT

Introduction to Groundwater Modeling
- Tuesday, July 16, 2024 | 9:00 am - 4:00 pm CDT

It Doesn't End in August – Extending Interest in the Garden
- Tuesday, July 16, 2024 | 8:30 - 11:15 am CDT

Roadmap to Ethical Issues in Construction: A Primer for Design Professionals
- Tuesday, July 16, 2024 | 11:00 am - 1:00 pm CDT

Shallow Foundation Design, Construction and Repair
- Tuesday, July 16, 2024 | 8:30 am - 4:30 pm CDT

Brownfield Planning and Redevelopment
- Wednesday, July 17, 2024 | 10:00 am - 12:00 pm CDT

Deep Dive into Cool Roofs and Cool Walls
- Wednesday, July 17, 2024 | 12:30 - 2:30 pm CDT

Threats to Trees and How to Increase Their Survival
- Wednesday, July 17, 2024 | 11:00 am - 3:00 pm CDT
- Thursday, July 18, 2024 | 11:00 am - 2:30 pm CDT

Introduction to Stormwater Modeling
- Thursday, July 18, 2024 | 9:00 am - 4:00 pm CDT

Landscaping for Pollinators
- Thursday, July 18, 2024 | 10:00 am - 12:00 pm CDT

Deep Dive into PFAS in Our Water
- Wednesday, July 24, 2024 | 9:00 am - 12:15 pm CDT

Applying the Building Code to Cannabis Facilities
- Friday, July 26, 2024 | 8:30 am - 3:30 pm CDT

Using the State Plane Coordinate System
- Friday, July 26, 2024 | 9:00 am - 1:30 pm CDT

Historic Preservation, Restoration and Rehabilitation
- Monday, July 29, 2024 | 9:00 am - 4:00 pm CDT

High-Performance Building Envelope Design and Construction
- Monday, July 29, 2024 | 8:30 am - 4:00 pm CDT

Modular Construction and Prefabricated Components: Residential, Multi-Family and Commercial Buildings
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