

Credit Information

Slope Stabilization and Landslide Prevention - Rocky Mountain Region

This webinar is open to the public and offers 6.5 PDHs to professional engineers, 6.5 HSW continuing education hours to licensed architects, and 6.5 HSW continuing education hours to landscape architects in Montana.

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

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA CES.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

This webinar has been approved by the Association of State Floodplain Managers for 6.5 CECs for floodplain managers.

Visit this course listing at www.halfmoonseminars.org for updates on pending credits.

Completion certificates will be awarded to participants who complete this event and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Montana Stormwater Management 2022

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Live, Interactive Webinars

- Slope Stabilization and Landslide Prevention - Rocky Mountain Region
- Montana Stormwater Management 2022

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Live, Interactive Webinars

Slope Stabilization and Landslide Prevention - Rocky Mountain Region

- Thursday, May 19, 2022 | 8:30 am - 3:50 pm MDT

Montana Stormwater Management 2022

- Wednesday, May 25, 2022 | 11:00 am - 2:15 pm MDT

- Thursday, May 26, 2022 | 11:00 am - 3:15 pm MDT

To register, view detailed presenter biographies, and see other learning opportunities, please visit:

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Agenda

Unreinforced Slope Stability

- 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

How to Design a Mechanically Stabilized Earth (MSE) Slope

- Geosynthetic properties for use in slope stabilization
- Material required for the exposed face of the slope to maintain long term stability
- Equations, calculations, and example of using geosynthetics to reinforce a slope
- Soil properties and conditions that contribute to slope stability
- Deep seated stability analysis

Best Practices for Slope Stability and Case Histories

- Preventing problems or failures through improved site layout
- Preventing problems or failures through proper design techniques
- 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) affects an earth structure
- Appropriate measures to take during construction to ensure long term earth structure success
- Case histories and examples of failed structures

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Added Value: Enhance your learning - a recording of this webinar will be available for attendees to stream online for two weeks after the program date.
(Must attend live webinar to earn live webinar credits)

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of these webinars are available for purchase. Visit these course listings on our website 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.

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Agenda Day One

Understanding Stormwater Permit Requirements and Procedures

Background and development of national and state regulations and permit requirements

- Federal Clean Water Act and Montana stormwater rules

Activities exempt from construction general stormwater permit requirements

Complying with NPDES and Montana Department of Environmental Quality requirements

- Notice of intent requirements
- What the permit covers and does not cover
- Application process
- General requirements and standard conditions
- Implementing, monitoring and assessing stormwater management plans

Understanding and Applying the Science of Stormwater

Hydrology, soil science and drainage Identifying consequences of storm events
Stormwater modeling Runoff reduction, routing and storage
Infiltration and percolation

Agenda Day Two

Choosing Appropriate Storm Water Best Management Practices (BMPs)

Stormwater management planning

Sizing criteria

Green infrastructure practices

- Preservation of natural features and conservation design
- Reducing impervious cover

Green management techniques

- Conservation of natural areas
- Riparian buffers and filter strips
- Disconnected runoff
- Rain gardens
- Stormwater planters
- Pervious pavement
- Detention/retention ponds
- Vegetated swales
- Stream daylighting
- Green roofs
- Rain barrels/cisterns

Developing Stormwater Pollution Management Plans

Including required elements Assessing building sites
Choosing best management practices (BMPs)
Planning for required inspection, maintenance and recordkeeping
Obtaining plan certification Implementing stormwater plans

Developing Plans for Inspection, Monitoring, Maintenance and Recordkeeping

Understanding the science and terminology of stormwater management and monitoring
Implementing monitoring plans Reviewing stormwater BMP case studies

22 MTSWMGM1 5 25 WEBR AM - 22 MTSWMGM2 5 26 WEBR AM

Faculty

Slope Stabilization and Landslide Prevention - Rocky Mountain Region

Bill Simpson, PE *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. Mr. Simpson 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 useable space. Mr. Simpson 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. He has also worked with lawyers and insurance companies during forensic investigation and lawsuits surrounding retaining walls and slope failures. Mr. Simpson's hope is that through the instructional services that he currently provides, slopes will remain stable and retaining wall failure will be eliminated.

Montana Stormwater Management 2022

Shoots Veis, PE

Mr. Shoots Veis is an experienced and engaging public speaker, having given hundreds of public presentations at professional conferences, college courses, public meetings, TEDx and service clubs. He served a five-year term on the Billings, Montana, city council, where he took an interest in getting presenters to engage with the audience. Mr. Veis spent several years appearing as an actor in dozens of productions at Billings Studio Theatre and hosts the Your County, Your City and Your Schools programs on Community 7 Television.

Additional Learning

Onsite Wastewater Treatment Systems: Innovations, Commercial and Cluster Systems

- Mon, April 25, 2022|8:30 am - 4:00 pm CDT

Decentralized Onsite Wastewater Treatment Systems: Ongoing Innovation for the 21st Century

- Tues, April 26, 2022|8:45 am - 5:00 pm CDT

Shoreline Protection - Lakes, Ponds and Other Inland Waters

- Tues, April 26, 2022|8:30 am - 4:30 pm CDT

Wildfire Management on Rural Lands

- Thurs, April 28, 2022|12:00 - 3:15 pm CDT
- Fri, April 29, 2022|12:00 - 3:15 pm CDT

Construction Cost Estimating and Value Engineering

- Fri, April 29, 2022|8:30 am - 3:20 pm CDT

Wetland Restoration

- Fri, April 29, 2022|8:30 am - 4:00 pm CDT

Reading, Interpreting and Writing Land Descriptions Workshop

- Fri, April 29, 2022|9:00 am - 4:00 pm CDT

Retaining Wall Design and Slope Stabilization Techniques

- Thurs, May 5, 2022|11:00 am - 2:15 pm CDT
- Fri, May 6, 2022|11:00 am - 2:15 pm CDT

2020 National Electrical Code Update

- Fri, May 6, 2022|8:30 am - 4:00 pm CDT

Construction Management for Highway and Road Projects

- Mon, May 9, 2022|9:00 am - 12:15 pm CDT
- Tues, May 10, 2022|9:00 am - 12:15 pm CDT

Urban Stormwater System Design and Construction

- Thurs, May 12, 2022|8:30 am - 4:30 pm CDT

The Tree Course: Science, Design, and Sustainability

- Fri, May 13, 2022|9:00 am - 4:30 pm CDT

International Existing Building Code 2021

- Tues, May 17, 2022|9:00 am - 4:30 pm

For more information and other online learning opportunities visit:
www.halfmoonseminars.org