Credit Information

Slope Stabilization and Landslide Prevention

This webinar offers 7.5 PDHs to professional engineers and 7.5 HSW continuing education hours to architects in all states. It offers 7.5 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), and North Carolina (S-0130). 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 7.5 LU|HSW (Sponsor No. J885) and the Landscape Architect 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 are of Sitework (Preferred Provider No. 1232).

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

Soils Engineering

This webinar offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to architects licensed in all states.

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), and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and 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)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.0 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approvedd this event for .6 CEUs in the specialty area of Sitewodrk (Preferred Provider No. 1232).

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

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Live, Interactive Webinars
Plus see inside for additional webinars!

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Live, Interactive Webinars

Slope Stabilization and Landslide Prevention
- Monday, June 7, 2021 | 8:30 am - 5:00 pm CDT

Soils Engineering
- Tuesday, June 8 2021 | 11:00 am - 2:15 pm CDT
- Wednesday, June 9, 2021 | 11:00 am - 2:15 pm CDT

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

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Slope Stabilization and Landslide Prevention

Monday, June 7, 2021 | 8:30 am - 5:00 pm CDT

Credits: Professional Engineers: 7.5 PDHs Architects: 7.5 HSW CE Hours
AIA: 7.5 LU|HSW Landscape Architects: 7.5 HSW CE Hours
LA CES: 7.5 HSW PDHs Floodplain Managers: 7.5 ASFPM CECs
International Code Council: .75 CEUs (Sitework)

Soils Engineering

Tuesday, June 8 2021 | 11:00 am - 2:15 pm CDT
Wednesday, June 9, 2021 | 11:00 am - 2:15 pm CDT

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: 6.0 LU|HSW International Code Council: .6 CEUs (Sitework)

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Slope Stabilization and Landslide Prevention

Monday, June 7, 2021 | 8:30 am - 5:00 pm CDT (incl. a 30-min break)

Tuition: $289 per registrant, $199 per registrant for three or more

Credits: Professional Engineers: 7.5 PDHs Architects: 7.5 HSW CE Hours
AIA: 7.5 HSW CE Hours Landscape Architects: 7.5 HSW CE Hours
LA CES: 7.5 HSW PDHs Floodplain Managers: 7.5 ASFPM CECs
International Code Council: .75 CEUs (Sitework)

Presented by Curren E. Mohney

Slope Movement and Mechanisms
- Types of slope movement and instability
  - Rock fall and rockslides
  - Translational and rotational failures
  - Debris flows and rapidly moving landslides
- Analyzing the stability of slopes
- Slope stability concepts
  - Reviewing geologic conditions
  - Examining soils and topography
  - Evaluating surface and groundwater conditions
- A brief discussion of soil and rock mechanics
  - The influence of water
- Evaluating types of slopes
  - Natural slopes
  - Engineered slopes
- Methods of slope stability analysis

Slope Stabilization Methods
- Use of vegetation (bioengineering)
- Surface protection
- Unloading
- Buttressing
- Buttressing for streambank stabilization and environmental considerations
- Drainage
- Reinforcement
- Installing earth retention structures
- Rock slope stabilization
- Combining methods

Landslide Hazard and Risk Assessment
- Definitions and elements of landslide hazard risk
- Risk-reduction strategies (objectives for landslide mitigation)
- Lifestyle cost analysis
- Applications

Case Histories in Landslide Mitigation
- Slope stabilization using retaining walls
- Slope stabilization using combinations of methods
- Rockfall mitigation
- Slope stabilization using earthworks
  - Shear keys and buttresses
  - Unloading
- Slope stabilization using drainage

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Soils Engineering

Tuesday, June 8 and Wednesday, June 9, 2021

Tuition: $289 per registrant, $199 per registrant for three or more

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: 6.0 LU|HSW International Code Council: .6 CEUs (Sitework)

Presented by Liiban A. Affi

Day One: Tuesday, June 8 2021
11:00 am - 2:15 pm CDT (incl. a 15-min. break)

Introduction to Soils Engineering
- Practical soil mechanics
- Footings and mat foundations
- Driven piles and drilled pier foundations
- Lateral earth pressures (static, seismic and surcharges)
- Hillside slopes and repair methods
- Cantilever retaining walls
- Restrained basement walls
- Segmental (geogrid) retaining walls

Design Excavation Support Systems
- Geo technical parameters and loading diagrams
- Gross pressure vs net pressure
- Cantilever soldier beams
- Tied-back soldier beams
- Fixed earth method
- Sheet piles – cantilever and tied back
- Tangent and secant piles
- Soil nail walls

Day Two: Wednesday, June 9, 2021
11:00 am - 2:15 pm CDT (incl. a 15-min. break)

Slope Repair Techniques
- Drilled shafts- downward and uplift loads
- Lateral and bending moments
- Torsional moments
- Anchored tiebacks
  - Strands
  - Threaded bars
  - Helical piles
- Repairing failing retaining walls
- Avoiding over-conservative designs

Soil Engineering after College: Practical Approaches to Foundations and Retaining Structures
- Typical soil strength values
- Strength and comprehensibility parameters of granular soils
  - Cohesive soils
  - Bedrock
- Geotechnical aspects of shallow foundations
  - Bearing capacity
  - Soil consolidation
  - Vertical subgrade modulus values
- Geotechnical criteria for deep foundations
  - Skin friction
  - End bearing
  - Lateral subgrade modulus values
- Earth pressures and stability of retaining structures
  - Critical height of vertical cut
  - Active pressure table
  - At rest pressure table
  - Passive resistance table

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Faculty

Slope Stabilization and Landslide Prevention

Curren E. Mohney *Engineering Geologist*

Mr. Mohney is the Engineering Geology Program leader for the Oregon Department of Transportation (ODOT). The Engineering Geology Program at ODOT encompasses site characterization, subsurface exploration, slopes and embankments, geologic hazards, groundwater, geotechnical instrumentation, and planning and research activities. In this role, he also oversees the Unstable Slopes (landslide/rockfall) Program for ODOT. He is a registered geologist and a certified engineering geologist in Oregon with over 25 years of experience in Oregon and the western states. Mr. Mohney has been the Engineering Geology Program leader since 2004. Prior to this, he had been a staff and project-level geologist for consulting firms and the mining industry as well as for ODOT. He is a graduate of the Geology Program at Portland State University. During his professional career, Mr. Mohney has been involved in the investigation, design, and mitigation of hundreds of landslides and rockfalls.

Soils Engineering

Liiban A. Affi *Foundation Engineering Consultants*

Mr. Affi is the founder of Foundation Engineering Consultants in the state of California. He specializes in excavation support analysis, driller pier foundation and sub-structural engineering software. Mr. Affi is a licensed civil engineer in California and has authored three books. He was recently awarded a U.S. Patent in a new method of supporting lightly loaded foundations and pavements on highly expansive soils. He is very interested in filling the practice gap between geotechnical and structural engineers when it comes to foundations and earth retaining structures.

Additional Learning

Deep Dive Webinar Series

Nine short webinars that each take a look at a single subject in May 2021

Deep Dive into Building Classification and Occupancy
- Tues, May 4, 2021|11:00 am - 2:00 pm CDT

Deep Dive into Protecting Your Openings Using Fire Door and Fire Window Assemblies
- Thurs, May 6, 2021|1:00 - 4:20 pm CDT

Historic Preservation for Designers
- Fri, May 7, 2021|1:30 - 3:30 pm CDT

Deep Dive into Real-Life Construction Failures
- Mon, May 10, 2021|2:00 - 4:00 pm CDT

Deep Dive into Invasive Landscape Plants
- Thurs, May 20, 2021|11:00 am - 12:30 pm CDT

Deep Dive into the Important Changes of the 2021 International Building Code and 2021 International Energy Conservation Code
- Thurs, May 20, 2021|10:00 am - 1:30 pm CDT

Deep Dive into Water Infiltration in Soil
- Fri, May 21, 2021|11:00 am - 1:00 pm CDT

Carbon Credits and Carbon Markets Defined
- Mon, May 24, 2021|10:00 am - 12:00 pm CDT

Deep Dive Into Retaining Wall Layout for Site Designers
- Thurs, May 27, 2021|11:00 am - 1:00 pm CDT

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