

Credit Information

Soil Mechanics, Bearing Capacity and Slope Stabilization

This webinar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects licensed in all states. It offers 6.5 HSW continuing education hours to landscape architects in all states, except Florida, New Jersey, and 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 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 6.5 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.

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).

Parking Structure Design, Construction, and Maintenance

This webinar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 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 6.5 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building (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).

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

Recordings of each webinar are available for purchase. See course listing online 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. Self-study packages do not qualify for AIA or LA CES credit.

Live, Interactive Webinars

- Soil Mechanics, Bearing Capacity and Slope Stabilization
- Parking Structure Design, Construction, and Maintenance

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Live, Interactive Webinars

Soil Mechanics, Bearing Capacity and Slope Stabilization

- Friday, December 17, 2021 | 8:30 am - 4:30 pm CST

Parking Structure Design, Construction, and Maintenance

- Wednesday, December 29, 2021 | 8:00 am - 3:30 pm CST

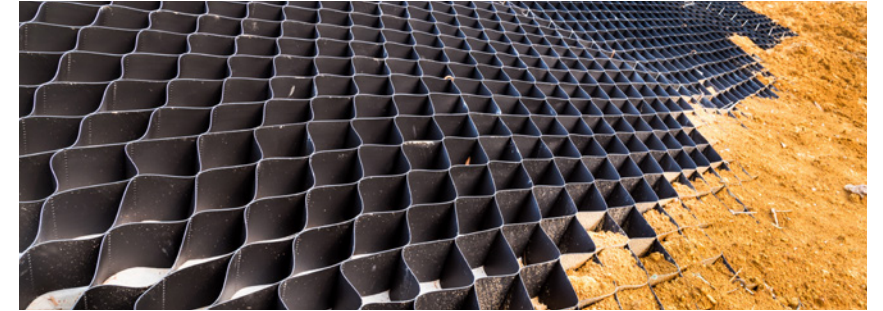
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HalfMoon Education Live Webinars



Soil Mechanics, Bearing Capacity and Slope Stabilization

Friday, December 17, 2021 | 8:30 am - 4:30 pm CST

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
AIA: 6.5 LU | HSW Landscape Architects: 6.5 HSW CE Hours
LA CES: 6.5 HSW PDHs



Parking Structure Design, Construction, and Maintenance

Wednesday, December 29, 2021 | 8:00 am - 3:30 pm CST

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
AIA: 6.5 LU | HSW International Code Council: .65 CEUs (Building)

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Soil Mechanics, Bearing Capacity and Slope Stabilization

Friday, December 17, 2021 | 8:30 am - 4:30 pm CST (incl. a 60-min break)

Tuition: \$289 per registrant, \$239 per registrant for three or more

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
AIA: 6.5 LU|HSW Landscape Architects: 6.5 HSW CE Hours
LA CES: 6.5 HSW PDHs

Agenda

Soil Investigation and Classification

- Properties of soil
 - Importance of recognizing soil properties
- Formation of soils
 - Types of soils
- Soil investigation
 - Site reconnaissance
 - Geology and visual observations
 - Drilling and boring
 - Test pits
 - Establishing appropriate investigational methods
 - Obtaining and reviewing geotechnical reports

Reviewing Hydraulic and Mechanical Properties of Soils

- Soil permeability
- Compressibility of soil
- Soil hydraulics
 - Saturation, hydraulic gradient, and conductivity
- Drained and undrained shear strength
 - Vertical and lateral earth pressure
- Stress and failure in soils

Determining and Increasing Bearing Capacity

- Calculating bearing capacity
- Bearing capacity of shallow foundations
- Bearing capacity of piers and piles
- Increasing bearing capacity
 - Draining and compaction
 - Soil improvement

Determining and Increasing Slope Stability

- Natural and engineered slopes
- Reviewing basic concepts of slope stability
- Understanding slope failures
- Impact of surface water and groundwater
- Examining slope stabilization methods
 - Unloading
 - Draining and compaction
 - Reinforcement
 - Soil improvement

Presented by

Jeffrey L. Snyder, PE *Senior Geotechnical Engineer at GHD Services, Inc.*

Mr. Snyder is a geotechnical professional for transportation, commercial, industrial and municipal projects throughout the upper Midwest including in Ohio, Michigan, Illinois, Indiana, Pennsylvania, and Kentucky. He provides analyses and recommendations for shallow and deep foundation systems as well as landslide evaluation and remediation. He has co-authored several papers on lateral loading behavior of driven pile foundations. Mr. Snyder earned his B.S. and M.S. degrees in Civil Engineering from Brigham Young University.

Parking Structure Design, Construction, and Maintenance

Wednesday, December 29, 2021 | 8:00 am - 3:30 pm CST (incl. a 30-min break)

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AIA: 6.5 LU|HSW International Code Council: .65 CEUs (Building)

Agenda

Parking Planning

- Design approach
- Parking planning
 - How much parking do we need?
 - Siting
 - Layout and parking circulation
 - Program, budget, and schedules

Parking Structure Design and Construction

- Building code considerations
- Security and lighting
- Structure, drainage, and durability
- Mechanical, plumbing, and fire protection
- Signage and wayfinding
- Parking operations

Maintenance, Restoration, and Future Considerations

- Parking structure design and construction
 - Parking operations (continued)
 - Architecture
- Maintenance and restoration
- Future considerations

Presented by

Rob McConnell, PE, LEED Green Associate *Vice President Parking Solutions*

Mr. McConnell's parking design and consulting experience encompasses more than 20 years of work with airports, governmental agencies, and with military, transit, higher education, resort, healthcare, and corporate clients. He is well-versed in precast concrete, cast-in-place concrete, and steel construction. Mr. McConnell's experience includes numerous restoration, parking study, and programming projects. Several of his projects have received LEED certification, including Colorado State University's Lake Street parking facility, which received LEED Gold.

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Additional Learning

Engineering Project Management

- Mon, Nov 8, 2021 | 8:30 am - 5:00 pm CST

Controlling Coastal Erosion and Creating Living Shorelines

- Tues, Nov 9, 2021 | 7:45 am - 3:15 pm CST

Ethical Issues in Sustainable Design: Understanding and Preventing Greenwashing

- Tues, Nov 9, 2021 | 8:30 - 9:30 am CST

How to Design Detention Basins

- Wed, Nov 10, 2021 | 1:00 - 3:00 pm CST

How to Design a Reinforced Slope

- Wed, Nov 10, 2021 | 10:00 am - 12:00 pm CST

National Electrical Code 2020: Grounding and Bonding

- Wed, Nov 10, 2021 | 8:30 am - 5:00 pm CST

Deep Foundations and Excavations

- Fri, Nov 12, 2021 | 8:30 am - 5:00 pm CST

HVAC Primer for Design Professionals

- Fri, Nov 12, 2021 | 8:30 am - 4:30 pm CST

IRC Significant Changes – Chapters 11-44

- Fri, Nov 12, 2021 | 11:00 am - 3:30 pm CST

Stream Restoration for Design Professionals

- Fri, Nov 12, 2021 | 9:00 am - 4:30 pm CST

The Arborist Short Course: Advanced Tree Knowledge for Better Tree Care

- Tues, Nov 16, 2021 | 9:00 am - 4:30 pm CST

Construction Cost Estimating

- Tues, Nov 16, 2021 | 7:30 am - 3:30 pm CST

Introduction to HEC-RAS Modeling

- Tues, Nov 16, 2021 | 8:30 am - 5:00 pm CST

Best (and Worst) Practices for Retaining Wall Success and Interactive Workshop

- Wed, Nov 17, 2021 | 10:00 am - 1:15 pm CST

Current Issues in the Practice of Geoscience

- Thurs, Nov 18, 2021 | 8:30 am - 4:00 pm CST

Focusing on the Legal Ramifications of Drone Use for Utilities

- Fri, Nov 19, 2021 | 10:00 am - 12:00 pm CST

Industrial Stormwater Management

- Fri, Nov 19, 2021 | 9:00 am - 4:00 pm CST

Septic System Design, Construction and Maintenance

- Fri, Nov 19, 2021 | 8:30 am - 4:30 pm CST

Designing and Constructing a Net-Zero Energy Home in the Midwest

- Mon, Nov 22, 2021 | 8:30 am - 1:00 pm CST

- Tues, Nov 23, 2021 | 8:30 am - 1:30 pm CST

Special Inspections under the International Building Code Chapter 17

- Mon, Nov 29, 2021 | 10:00 am - 2:30 pm CST

- Tues, Nov 30, 2021 | 10:00 am - 1:15 pm CST

The Value and Practice of Biophilic Design

- Tues, Nov 30, 2021 | 10:30 am - 12:30 pm CST

- Tues, Dec 7, 2021 | 10:30 am - 12:30 pm CST

- Tues, Dec 21, 2021 | 10:30 am - 12:30 pm CST

Arc Flash Update NFPA 70E 2021

- Wed Dec 1, 2021 | 9:00 am - 1:40 pm CST

- Thurs Dec 2, 2021 | 9:00 am - 1:40 pm CST

Residential Accessibility: Designing for Multi-Family Housing

- Wed, Dec 1, 2021 | 8:30 am - 12:15 pm CST

- Thurs, Dec 2, 2021 | 8:30 am - 12:15 pm CST

The Tree Course: Science, Design, and Sustainability

- Fri, Dec 10, 2021 | 9:00 am - 4:30 pm CST

Aerial Mapping Technologies and Procedures

- Mon, Dec 13, 2021 | 8:30 am - 5:00 pm CST

Engineered Lumber Design and Construction

- Mon, Dec 13, 2021 | 8:30 am - 12:10 pm CST

- Tues, Dec 14, 2021 | 8:30 am - 12:10 pm CST

Retaining Wall Design and Slope Stabilization Techniques

- Mon, Dec 13, 2021 | 8:30 am - 4:15 pm CST

Practical Site Engineering: Science & Techniques

- Wed, Dec 15, 2021 | 11:00 am - 3:15 pm CST

- Fri, Dec 17, 2021 | 11:00 am - 2:15 pm CST

GNSS Positioning

- Thurs, Dec 16, 2021 | 9:00 am - 4:30 pm CST

International Building Code 2021

- Fri, Dec 17, 2021 | 8:30 am - 5:00 pm CST

National Electrical Code 2020

- Tues, Dec 28, 2021 | 8:30 am - 5:00 pm CST

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