

Agenda

Presented by Jeffrey Snyder

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

Soil Mechanics, Bearing Capacity and Slope Stabilization

Online Webinar - Tuesday, March 17, 2020



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

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Learning Objectives

You'll be able to:

Understand the properties of soils, and discuss the need to conduct soil investigations to determine the appropriate type of foundation for the building site.

Understand the hydraulic and mechanical properties of site soils, paying particular attention to soil compressibility and permeability and their impact on foundation design.

Calculate soil bearing capacity for shallow foundations, piers and piles.

Increase bearing capacity through draining, compaction and soil improvement.

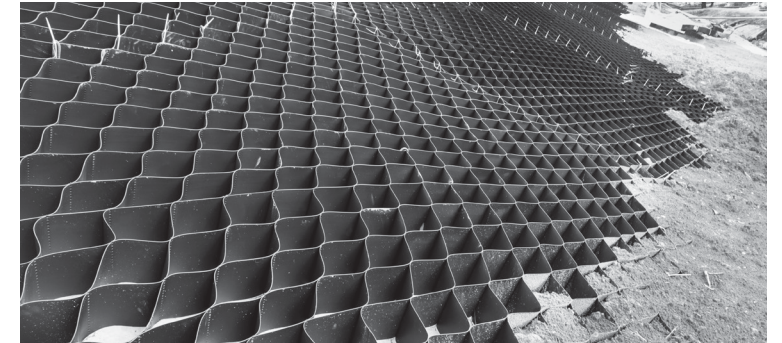
Learn why slopes fail, and describe slope stabilization methods to prevent slope failure and landslides.



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HalfMoon Education Online Learning Soil Mechanics, Bearing Capacity and Slope Stabilization

Online Webinar - Tuesday, March 17, 2020



Explore soil investigation procedures

Review hydraulic and mechanical properties of soils and learn about stress and failure soils

Examine the bearing capacity of shallow foundations, piers and piles

Understand slope failures and the impact of surface and groundwater

Compare slope stabilization methods, such as unloading and draining

Continuing Education Credits

Professional Engineers

6.5 PDHs

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6.5 LA/CES HSW PDHs

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Construction Contractors

Non-Credit Continuing Ed.

Webinar instructions and login information will be provided in an email sent close to the date of the webinar. To register, please fill out the attached form or visit us at:
www.halfmoonseminars.org/webinars/



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Faculty

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.

Webinar Information

Log into Webinar	Break
8:00 - 8:30 am	12:30 - 1:30 pm
Morning Session	Afternoon Session
8:30 am - 12:30 pm	1:30 - 5:00 pm

Tuition
\$299 for individual registration
\$279 for three or more registrations.

How to Register

- Visit us online at www.halfmoonseminars.org/webinars/
- Mail-in or fax the attached form to 715-835-6066
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Continuing Education Credit Information

This live lecture presentation is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states and 6.5 HSW contact hours to landscape architects in most states, including Ohio. Educators and courses are not subject to preapproval in Ohio.

This seminar is approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Visit www.halfmoonseminars.org for complete AIA/CES information under this course listing. Only full attendance is reportable to the AIA/CES and LA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for engineers, architects and landscape architects in New York.

This course offers a continuing education opportunity to construction contractors. It has not been approved by any state contractor licensing board.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Additional Learning

Webinar Series

Structural Forensic Engineering

- **Overview of the Role of Forensic Engineering**
Thurs., April 16, 2020, 11:00 - 12:30 PM CDT
- **Forensic Engineering Process and Forensic Engineering Report**
Thurs., April 16, 2020, 1:00 - 3:00 PM CDT
- **Causes of Structural Failures**
Fri., April 17, 2020, 11:00 - 12:30 PM CDT
- **Forensic Examination of Structures and Use in Litigation**
Fri., April 17, 2020, 1:00 - 3:00 PM CDT

Water Conservation

- **Reviewing the Owner’s Commitment to Water Conservation and Applicable Codes and Standards**
Thurs., April 23, 2020, 11:00 AM - 12:30 PM CDT
- **Assessing the Building Site**
Thurs., April 23, 2020, 1:00 - 2:00 PM CDT
- **Conserving and Reducing Water Use**
Fri., April 24, 2020, 11:00 AM - 1:00 PM CDT
- **Onsite Water Recycling and Minimizing Water Use**
Fri., April 24, 2020, 1:30 - 3:30 PM CDT

Special Inspections under the IBC Chapter 17

- **Special Inspections under the IBC Chapter 17, Part I**
Wed., April 29, 2020, 11:00 AM - 2:15 PM CDT
- **Special Inspections under the IBC Chapter 17, Part II**
Thurs., April 30, 2020, 11:00 AM - 3:15 PM CDT

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A full recording of this seminar is starting at \$279, which includes shipping and handling. This learning method does not qualify for the continuing education credit in Ohio or for the AIA/CES and LA/CES. Please allow five weeks from the seminar date for delivery.

Registration

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Tuition

() **I will be attending the live seminar.** Single Registrant - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$279.00** each.

() **I am not attending.** Please send me the self-study package:

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☐ CD/Manual Package for **\$299.00**. ☐ USB/Manual Package **\$299.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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