

Agenda

Presented by David Harmanos

Agenda

Soil Investigation and Classification

Importance of knowing construction site soils

Soil classification

- 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

Complying with Building Code Provisions on Soils

International Building Code (IBC)

International Residential Code (IRC)

Infrastructure standards and guidelines

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
- Grouting

Determining and Improving 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

- Covering
- Unloading
- Draining and compaction
- Reinforcement
- Soil improvement

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and live online! Move from in-person to online anytime!

Soils in Construction

Wayne, PA or Online - Wednesday, August 3, 2022

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Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Identify and classify site soils.

Obtain and review geotechnical reports on construction site soils.

Explore soil hydraulics and determine drained and undrained shear strength.

Comply with International Building Code and International Residential Code provisions on soils.

Calculate the bearing capacity of foundations.

Determine the stability of natural and engineered slopes.



Live, In-Person Seminar and Live Webinar

Soils in Construction

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Recognize soil properties, and discuss the performance of soils on construction sites

Determine and increase bearing capacity of soils

Use visual observations, drilling and boring to assess site soils

Determine and improve slope stability

Comply with building code provisions on soils

Continuing Education Credits

Professional Engineers

7.0 PDHs

Landscape Architects

7.0 HSW CE Hours

7.0 LA CES HSW PDHs

Architects

7.0 HSW CE Hours

7.0 AIA LU | HSW

International Code Council

.7 CEUs (Building)



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Faculty

David Harmanos *Branch Manager at Hillis-Carnes Engineering Associates, Inc.*
Mr. Harmanos is a professional engineer with extensive experience in subsurface exploration, soil testing, infiltration testing, geosynthetics, and seismic and advanced analysis. His expertise includes commercial, industrial and institutional foundation design; retaining wall and steep slope design; sinkhole remediation; landfill design; site work; forensic engineering; LEED consulting; and construction quality control/assurance (CQA/QC). Mr. Harmanos is a graduate of Drexel University where he received both his BS and MS degrees in Civil Engineering (Geosynthetics and Geotechnical). Hillis-Carnes performs geotechnical engineering consulting and laboratory testing services. Its construction services include evaluation of bearing materials, inspection of pile driving, slope inclinometer installation and monitoring, and retaining wall construction observation.

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)

Seminar/Webinar Information

**Courtyard by Marriott
Valley Forge/King of Prussia**
1100 Drummers Lane
Wayne, PA 19087
(610) 687-6700

Webinar Information:
Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For system requirements, please visit the FAQ section of our website, or visit www.gotowebinar.com.

Tuition
\$319 for individual registration
\$289 for three or more registrants from the same company at the same time.
Included with your registration: *PDF Seminar Manual.*
A printed manual is available for an additional cost upon request. Please call to order.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Transfer from seminar to webinar or from webinar to seminar at any time without charge! Cancel at least 48 hours before the start of the seminar/webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar/webinar or the self-study package. You may also authorize another person to take your place.

Additional Webinars

Pennsylvania Project Management for Engineers
Friday, June 24, 2022 | 8:30 am - 4:30 pm EDT

Credits: Professional Engineers: 6.0 PDHs International Code Council: Pending

Agenda Highlights

- Elements of project management
- Project procurement and proposal development
- Project management
- Project commissioning, start-up and closure

Pennsylvania Construction Law
Thursday, July 21, 2021 | 9:00 am - 12:15 pm EDT
Friday, July 22, 2022 | 9:00 am - 12:15 pm EDT

Credits: Professional Engineers: 6.0 PDHs
Architects: Non-Credit Learning opportunity for PA Architects
6.0 Non-HSW CE Hours for Architects Licensed in Other States
No credits available to New York Architects or Engineers
AIA: 6.0 LU | Elective International Code Council: .6 CEUs (Administration)

Agenda Highlights

- Overview of contract law
- Reviewing accessibility standards and compliance
- Litigating construction-related claims in Pennsylvania
- Construction law from the construction manager’s perspective

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

Continuing Education Credit Information
This course is open to the public and offers 7.0 PDHs to professional engineers, 7.0 HSW continuing education hours to licensed architects, and 7.0 HSW continuing education hours to landscape architects in Pennsylvania and all other states that allow this learning method. Please refer to specific state rules to determine eligibility.

The Pennsylvania State Registration Board for Professional Engineers, Land Surveyors and Geologists does not provide preapproval for any continuing professional competency activities, courses, or providers.

Pennsylvania architects are not required to earn continuing education hours for license renewal, so this course offers a non-credit learning opportunity to Pennsylvania architects. Architects licensed in other states may earn continuing education hours from this course.

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 7.0 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 7.0 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 Building (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the course for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

Registration

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How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900		Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.
Fax: 715-835-6066	Code:	() I need special accommodations. Please contact me.
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		
Complete the entire form. Attach duplicates if necessary.		

Tuition
Single Registrant - **\$319.00**. Three or more registrants from the same company registering at the same time - **\$289.00** each

() **Seminar:** I will be attending the presentation, live, in person, in King of Prussia, PA
No walk-in registrations will be accepted.

() **Webinar:** I will be attending the presentation live, online

() **I am not attending.** Please send me the seminar recording:
☐ Streamable MP4 Video/PDF Manual for **\$329.00**
☐ USB Video/PDF Manual for **\$329.00**

Checks: Make payable to HalfMoon Education Inc.
Credit Card: *Mastercard, Visa, American Express, or Discover*

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