

Agenda

Presented by David Harmanos

Evaluating Building Sites

- Soil mechanics overview
- Site exploration
- Subsurface exploration
- Laboratory soil testing
- Design soil profile

Shallow Foundation Design

- Using spread footings
- Using mat foundations
- Using hybrid foundations
- Using slab foundations

Allowable Settlement and Consolidation

- Determining bearing capacity
- Understanding consolidation and settlement
- Effects of load types and soil types
- Increasing bearing capacity

Shallow Foundation Construction

- Grading and soil improvement
- Dewatering and drainage
- Excavation and underpinning
- Complying with building codes

Basements as Foundations

- Construction of footings, floor and walls
- Drainage considerations
- Walk-outs

Handling Special Considerations in Foundation Design

- Foundations on stratified soils
- Foundations on expansive soils
- Foundations on reinforced soils
- Foundations on slopes

Diagnosing and Repairing Foundation Problems

- Causes of foundation damage
- Repair techniques
 - Ground improvement
 - Underpinning
 - Soil tiebacks
 - Piers, piles

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Shallow Foundation Design, Construction and Repair

Live, Interactive Webinar - Tuesday, July 6, 2021

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PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

- Consider** the importance of subsurface exploration and soil profiles when evaluating building sites.
- Explore** design considerations for mat, hybrid, and slab foundations.
- Understand** shallow foundation construction considerations, including excavation and underpinning.
- Discuss** basements as foundations, including walk-outs.
- Describe** special issues with foundations on stratified, expansive, and reinforced soils.
- Identify** causes of foundation damage and discuss repair techniques, including piers, piles, soil tiebacks, and underpinning.



HalfMoon Education Online Learning Shallow Foundation Design, Construction and Repair

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Evaluate soil conditions on building sites

Explore the key benefits of subsurface exploration

Determine bearing capacity of the building site and surrounding soil

Understand the effects of settlement and consolidation

Explain the utility of spread footings in transferring loads

Examine the function of mat foundations for alternative soil types

Continuing Education Credits

Professional Engineers
7.0 PDHs

Architects
7.0 HSW CE Hours

AIA
7.0 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.

Webinar Information

Log into Webinar Break
8:00 - 8:30 am CDT 12:15 - 1:15 pm CDT

Morning Session Afternoon Session
8:30 am - 12:15 pm CDT 1:15 - 5:00 pm CDT

Tuition

\$289 for individual registration

\$199 for three or more registrants from the same company at the same time.

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- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
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Cancellations: Cancel at least 48 hours before the start of the 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 webinar or the self-study package. You may also authorize another person to take your place.

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Additional Learning

AIA Contract Document Workshop

- Tues, June 1, 2021 | 8:30 am - 4:30 pm CDT

Commercial Site Pavement Design, Installation and Maintenance

- Wed, June 2, 2021 | 8:30 am - 4:30 pm CDT

Skatepark Design and Construction

- Wed, June 2, 2021 | 9:30 am - 4:30 pm CDT

How to Design and Construct MSE Walls

- Wed, June 2, 2021 | 10:00 am - 1:30 pm CDT

Basics of Structural Steel Design

- Fri, June 4, 2021 | 8:30 am - 3:45 pm CDT

Slope Stabilization and Landslide Prevention

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

Soils Engineering

- Tues, June 8 2021 | 11:00 am - 2:15 pm CDT

- Wed, June 9, 2021 | 11:00 am - 2:15 pm CDT

Writing Successful Proposals and RFPs

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

Deep Dive into Integrated Stormwater Management

- Tues, June 8, 2021 | 2:00 - 5:15 pm CDT

Practical Site Engineering: Science & Techniques

- Thurs, June 10, 2021 | 11:00 am - 3:15 pm CDT

- Fri, June 11, 2021 | 11:00 am - 2:15 pm CDT

Structural Forensic Engineering

- Tues, June 15, 2021 | 10:00 am - 1:45 pm CDT

- Wed, June 16, 2021 | 10:00 am - 2:15 pm CDT

Timber Frame Design and Construction

- Tues, June 15, 2021 | 8:30 am - 4:30 pm CDT

International Residential Code 2021

- Wed, June 16, 2021 | 8:30 am - 4:30 pm CDT

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

Continuing Education Credit Information

This webinar offers 7.0 PDHs to professional engineers and 7.0 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 7.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (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).

Registration

Shallow Foundation Design, Construction and Repair

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Fax: 715-835-6066		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.
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		() I need special accommodations. Please contact me.
Complete the entire form. Attach duplicates if necessary.		

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() **I will be attending the live webinar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.

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