Agenda

Presented by David Harmanos

Complying with Codes and Standards for Shallow Foundations
- Building code and residential code requirements
- Structural requirements and requirements for concrete and steel reinforcement

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

Shallow Foundation Design, Construction & Repair
Live, Interactive Webinar - Wednesday, January 31, 2024

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

Learning Objectives

You'll be able to:

Comply with International Building Code and International Residential Code requirements for shallow foundation design and construction.

Discuss the impact of site soils.

Explore design considerations for spread footings, mat foundations, hybrid foundations and slab foundations.

Determine bearing capacity and get tips on increasing bearing capacity.

Learn about grading, soil improvement, dewatering, excavation and underpinning.

Get tips on constructing foundations on stratified soils, expansive soils and on slopes.

HalfMoon Education Live Webinars

Shallow Foundation Design, Construction & Repair

Live, Interactive Webinar - Wednesday, January 31, 2024

Evaluate building sites

Comply with codes and standard for foundation design and construction

Allow for settlement and consolidation

Get tips on foundation construction practices

Get tips on designing and constructing basements

Diagnose and repair foundation problems

Continuing Education Credits

Professional Engineers
7.0 PDHs

Architects
7.0 HSW CE Hours

AIA
7.0 HSW LUs

International Code Council
.7 CEUs (Building)

AIA Continuing Education Provider

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Webinar Information

Log into Webinar
8:00 - 8:30 am CST

Break
12:15 - 12:45 pm CST

Morning Session
8:30 am - 12:15 pm CST

Afternoon Session
12:45 - 4:30 pm CST

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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.

Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers and 7.0 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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The American Institute of Architects Continuing Education System has approved this course for 7.0 HSW LUs (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).

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

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7.0 HSW LUs (AIA)

Additional Learning

Engineering Ethics and Consequences
- Wednesday, January 10, 2024 | 1:00 - 2:00 pm CST

Structural Forensic Engineering of Buildings
- Wednesday, January 10, 2024 | 8:30 am - 4:30 pm CST

Residential and Small Commercial Roof Design and Construction
- Thursday, January 11, 2024 | 9:00 am - 4:30 pm CST

Retaining Wall Design and Slope Stabilization Techniques
- Thursday, January 11, 2024 | 8:30 am - 4:15 pm CST

Practical Cogeneration and Its Important Role in a Sustainable Energy Environment
- Friday, January 12, 2024 | 9:00 am - 4:00 pm CST

Carbon Credits and Carbon Markets Defined
- Friday, January 12, 2024 | 10:00 am - 12:00 pm CST

Design and Construction on Expansive Soils
- Tuesday, January 16, 2024 | 9:00 am - 4:00 pm CST

2021 International Residential Code: Structural Construction
- Tuesday, January 23, 2024 | 12:00 - 4:30 pm CST

AIA Contract Document Workshop
- Tuesday, January 23, 2024 | 8:30 am - 4:30 pm CST

Building Classification, Occupancy and Mixed Occupancies
- Wednesday, January 24, 2024 | 9:00 am - 4:00 pm CDT

Tall Timber Frame Construction
- Wednesday, January 24, 2024 | 9:00 am - 5:30 pm CST

Adaptive Residential Use of Commercial Buildings
- Thursday, January 25, 2024 | 9:30 am - 4:25 pm CST

Cold-Formed Steel Frame Design for Small Commercial Buildings
- Thursday, January 25, 2024 | 8:30 am - 4:30 pm CST

Moisture Management and Protection Strategies for Mass Timber Buildings
- Thursday, January 25, 2024 | 12:00 - 2:00 pm CST

How to Analyze Common Construction Defects and Failures
- Wednesday, January 31, 2024 | 2:00 - 4:00 pm CST

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