

Agenda

Presented by:
E. Allen Dunn, III, Ph.D., P.E.

Evaluating Building Sites

- Desk study
- Site exploration
- Subsurface exploration
- Laboratory soil testing
- Design soil profile

Shallow Foundation Types and Design Considerations

- Spread footings
- Mat foundations
- Slabs-on-grade

Bearing Capacity and Settlement

- Theories of bearing capacity
- Consolidation settlement of clay soils
- Elastic settlement of granular soils
- Calculating loads and determining bearing capacity

Foundations on Difficult Soils

- Expansive soils
- Subgrade improvement
- Dewatering and drainage
- Excavation and underpinning

Shallow Foundations for Retaining Walls

- Bearing capacities
- Lateral soil pressures
- Global stability
- Foundations on slopes
- Basement retaining walls

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**Shallow Foundation
Design and Construction**
Austin, TX - Friday, July 26, 2019

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



Learning Objectives

You'll be able to:

Understand soil mechanics and review the purposes of subsurface exploration.

Determine bearing capacity and consider the effects of load/soil types.

Learn about spread footings, mat foundations, and slabs-on-grade.

Discuss the construction of foundations on expansive soils.

Examine shallow foundations for retaining walls, and explore foundations on slopes.



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Understand shallow foundation design

Identify allowable settlement and consolidation

Examine and evaluate building sites

Learn about IBC special inspections and quality control

Explore case studies

Discuss shallow foundation construction

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CEPHS/CE Hours
6.5 AIA LU/HSW

Contractors
Non-Credit Continuing Ed.



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Faculty

E. Allen Dunn, III, Ph.D., P.E. *Lead Foundation Engineer, M&S Engineering LLC*

Mr. Dunn is a licensed professional engineer with over 20 years of civil engineering and related experience specializing in geotechnical engineering, pavement engineering, forensic and structural engineering, construction materials engineering and testing, and electrical transmission engineering. He is licensed in multiple states and his experience includes projects throughout the contiguous United States. Mr. Dunn has worked for commercial, governmental, military, and private clients. He earned a B.S. degree in Civil Engineering from Texas A&M University, an M.S. degree in Civil Engineering and an M.B.A. degree from the University of Texas at San Antonio. Mr. Dunn earned his Ph.D. degree in Leadership Studies from Our Lady of the Lake University.

Seminar Information

Hilton Garden Inn Downtown
500 North Interstate 35
Austin, TX 78701
(512) 480-8181

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:15 pm
Lunch (On your own)
12:15 - 1:15 pm
Afternoon Session
1:15 - 4:30 pm

Tuition
\$289 for individual registration
\$269 for three or more registrants from the same company at the same time.

Included with your registration: *Complimentary continental breakfast and printed seminar manual.*

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

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: Cancel at least 48 hours before the start of the seminar, 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 or the self-study package. You may also send another person to take your place.

Additional Learning

Webinar Series

Retaining Structures

- **Earth Pressures and Surcharges**
Wed., June 26, 2019, 11:00 AM - 12:30 PM CDT
- **Cantilever & Apparent Earth Pressures**
Wednesday, June 26, 2019, 1:00 - 2:30 PM CDT
- **Apparent Earth Pressures**
Thurs., June 27, 2019, 11:00 AM - 12:30 PM CDT

Industrial Stormwater

- **Understanding the Federal Industrial Stormwater Program**
Thurs., June 27, 2019, 11:00 AM - 12:30 PM CDT
- **Examining Stormwater Pollutants and the Development of Total Maximum Daily Loads (TMDLs)**
Thurs., June 27, 2019, 1:00 - 2:00 PM CDT
- **Creating Stormwater Pollution Prevention Plans (SWPPPs)**
Fri., June 28, 2019, 11:00 AM - 12:00 PM CDT
- **Implementing Best Management Practices (BMPs), Sampling and Reporting**
Fri., June 28, 2019, 12:30 - 2:00 PM CDT

OSHA Construction Safety

- **Overview of Construction Safety Hazards, Statistics and OSHA Requirements**
Thurs., July 11, 2019, 11:00 AM - 12:30 PM CDT
- **Construction Site Fall Prevention, Ladders, Stairways and Excavation**
Thurs., July 11, 2019, 1:00 - 3:00 PM CDT
- **Construction Site Scaffolds, Cranes and Loading Capacities**
Fri., July 12, 2019, 11:00 AM - 12:30 PM CDT
- **Chemical Hazards, Electrical Safety and Personal Protective Equipment**
Fri., July 12, 2019, 1:00 - 3:00 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$269. See registration panel 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.

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

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

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

- ☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.
- ☐ CD/Manual Package for **\$289.00**.

(S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____

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