

Agenda

Presented by Brian C. Eubanks, M.S.C.E., P.E., D.F.E.

Expansive Soil, Geotechnical Investigations, and Reports

How to read and interpret a geotechnical report
Soil remediation options

Foundations

Types of engineered foundations
Design considerations
Construction and maintenance

Foundation Performance and Evaluation

Guidelines for evaluation
Performance standards
Performance analysis

Foundation Evaluation Case Studies

Common Causes of Foundation Movement

Potential Effects of Plumbing Leaks

How to read and interpret a plumbing test report
Method of analysis

Remedial Measures

Non-structural measures and structural measures
Design of remedial measures
Remediation case studies

Post-Remediation and Maintenance

Warranties
Post-remediation documentation
Post-remediation maintenance and owner maintenance

Forensic Causation Case Studies

Additional Levels of Investigation (How to Avoid Becoming a Case Study)

**Foundations on Expansive Soils:
Design Considerations, Evaluation, and Remediation**
Arlington, TX - Wednesday, March 28, 2018

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Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Read and interpret a geotechnical report.

Identify types of engineered foundations, review design considerations and get tips on maintenance.

Discuss guidelines for evaluating foundation performance.

Explore common causes of foundation movement and evaluate remedial measures.

Review case studies and get tips on how to avoid becoming a case study.



Foundations on Expansive Soils: Design Considerations, Evaluation, and Remediation

Arlington, TX - Wednesday, March 28, 2018



Learn how to read and interpret a geotechnical report

Review types of engineered foundations

Understand performance standards and review guidelines for foundation evaluation

Consider structural and non-structural remedial measures

Participate in forensic causation case studies

Continuing Education Credits

Architects

7.5 HSW CEPHS/Contact Hours
7.5 AIA HSW Learning Units

Landscape Architects

7.5 HSW CEPHS/Contact Hours
7.5 LA CES HSW PDHs

Professional Engineers

7.5 PDHs

Professional Geoscientists

7.5 CE Hours

Contractors

Non-Credit Continuing Ed.



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Faculty

Brian C. Eubanks, M.S.C.E., P.E., D.F.E. is the founder and principal structural engineer of Paragon Structural Engineering, LTD, (PSE) a structural design and forensic investigation firm based in Plano, Texas. Mr. Eubanks leads a technical staff comprised of professional engineers, graduate engineers, project managers, and field technicians in the structural design and forensic investigation of planned and existing structures. Mr. Eubanks’ structural design services include analysis and engineering of large, custom single-family residences, multi-family apartment/condominium complexes, light commercial facilities, warehouses and ancillary structures (retaining walls, screen walls, and swimming pools). He also performs construction phase operations of the aforementioned structural systems to verify design compliance. Mr. Eubanks has performed engineering designs for thousands of residential and light commercial structures as well as hundreds of retaining walls, screen walls, and pools. His structural forensic services include investigations concerning soil-structure interactions, performance of structural systems, evaluation of building envelopes, and determination of cause, origin, and extent of peril damage. Soil-structure interaction assessments include claims relating to design, construction, historic/current site effects, and moisture source influences. Structural system assessments include claims relating to current or latent design and construction issues. Building envelope assessments include claims related to roof coverings, veneers, flashing, and weather resistive barriers. Peril assessments include claims relating to hurricane damage, tornado damage, lightning strikes, earthquakes, explosions, fire damage, and vehicle-structure collisions. Mr. Eubanks has performed hundreds of forensic investigations, and he has authored dozens of expert reports for use in mediation, arbitration, and/or litigation. In addition, he has provided expert witness testimony in dozens of mediations, arbitrations, and court cases. Mr. Eubanks is a licensed professional engineer in 10 states and is a board-certified diplomate in forensic engineering by the National Academy of Forensic Engineers. He also serves as a member of the American Society of Civil Engineers Texas Section’s Residential Foundation Investigation and Design committee, the Post-Tensioning Institute’s Structural (DC-10A) and Construction/Maintenance (DC-10D) subcommittees, and the ASTM International Committees on Concrete Aggregates (C-09), Forensic Engineering (E-58), Soil and Rock (D-18), and Wood (D-07) Committees. Mr. Eubanks aims to educate with regard to soil-structure interaction, the performance and evaluation of structural systems, the evaluation of building envelopes, and the identification of causes and origins of damage to new and existing structures, as well as remedial solutions.

Seminar Information

The Bob Duncan Center
2800 South Center Street
Arlington, TX 76014
(817) 465-6661

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 - 5:30 pm

Tuition

\$279 for individual registration
\$259 for three or more registrations.
Each registration includes a complimentary continental breakfast and printed seminar manual.

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 CD/manual package. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open to the public. It offers 7.5 HSW CEPHs to Texas architects and landscape architects, 7.5 PDHs to Texas professional engineers, and 7.5 continuing education hours to Texas professional geoscientists to whom the subject matter is professionally relevant. Educators and courses are not subject to preapproval in Texas.

This seminar is approved by the American Institute of Architects for 7.5 HSW Learning Units (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 7.5 HSW PDHs. Only full attendance can be reported to the AIA/CES and LA/CES.

HalfMoon Education is deemed an approved continuing education sponsor for New York architects. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota.

This course offers a non-credit continuing education opportunity to contractors. It has not been approved by any contractor licensing entity for mandatory continuing education credit.

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

National Electrical Code: A Solar Photovoltaic System Perspective

- **National Electrical Code for Building Professionals, Part I**
Wed., Feb. 21, 2018, 11:00 AM - 2:15 PM CST
- **National Electrical Code for Building Professionals, Part II**
Thurs., Feb. 22, 2018, 11:00 AM - 2:15 PM CST

Erosion and Sediment Control

- **Erosion and Sediment Overview**
Thurs., Feb. 22, 2018, 11:00 AM - 12:00 PM CST
- **Stormwater Permit Requirements and Procedures**
Thurs., Feb. 22, 2018, 12:30 - 2:00 PM CST
- **Stream Stabilization Measures**
Fri., Feb. 23, 2018, 11:00 AM - 12:00 PM CST
- **Best Management Practices and Maintenance**
Fri., Feb. 23, 2018, 12:30 - 2:30 PM CST

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development, Part I**
Wed., Mar. 7, 2018, 11:00 AM - 2:15 PM CST
- **Solar Photovoltaic Project Design and Development, Part II**
Thurs., Mar. 8, 2018, 11:00 AM - 2:15 PM CST

Deep Excavations

- **Introduction to Deep Excavations**
Thurs., Mar. 15, 2018, 11:00 AM - 1:00 PM CDT
- **Soil Mechanics, Cantilever Walls and Anchored Sheet Pile Walls**
Thurs., Mar. 15, 2018, 1:30 - 3:00 PM CDT
- **Braced Excavation Design**
Fri., Mar. 16, 2018, 11:00 AM - 12:30 PM CDT
- **ASD and LRFD Design**
Fri., Mar. 16, 2018, 1:00 - 2:30 PM CDT

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

Can’t Attend? Order the CD/Manual Package:
An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Foundations on Expansive Soils: *Design Considerations, Evaluation, and Remediation*
Arlington, TX - Wednesday, March 28, 2018

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: _____
Fax: 715-835-6066	Name: _____ Occupation: _____ Email: _____ Phone: _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Name: _____ Occupation: _____ Email: _____ Phone: _____
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 - \$279.00 . Three or more registrants from the same company registering at the same time - \$259.00 each.
() I am not attending. Please send me the 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: <i>Mastercard, Visa, American Express, or Discover</i>
Credit Card Number: _____
Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
Billing Address: _____
City: _____ State: _____ Zip: _____
Signature: _____
Email: _____