

Agenda

Presented by
Amin Tomeh, PE, PMP, DGE, and Sam Alyateem, PE

Evaluating Building Sites

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

Allowable Settlement and Consolidation

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

Shallow Foundation Design

- Spread footings
- Mat foundations
- Monolithic foundations
- Hybrid/intermediate foundations
 - Helical piers
 - Aggregate rammed piers (vibro-piers/geopiers)

Shallow Foundation Construction

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

IBC Special Inspection and Quality Control

- International Building Code "Chapter 17"
- Geotechnical specifications and quality control
- Testing, reporting, and certification

Case Studies

- Design and construction challenges
- Soil stabilization with lime or cement
- Soil improvement with aggregate rammed piers
- Foundation stabilization vs intermediate foundations

**Shallow Foundation
Design and Construction**
Atlanta, GA - Tuesday, May 21, 2019



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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, monolithic foundations and hybrid/intermediate foundations.

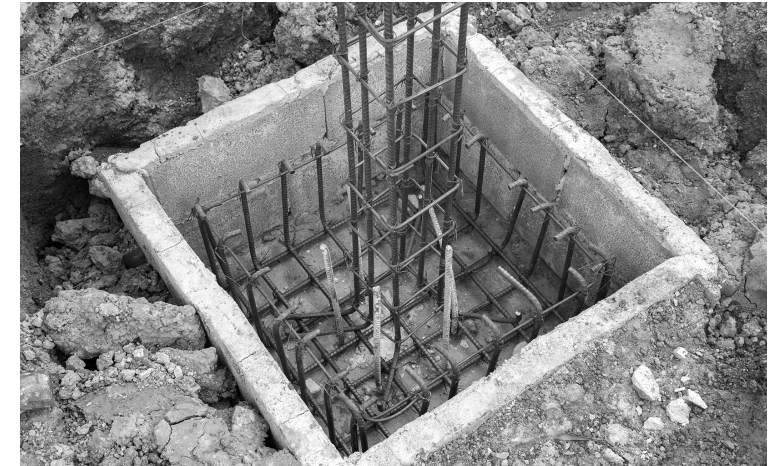
Discuss geotechnical specifications and quality control.

Examine design and construction challenges, including the need for soil improvement and foundation stabilization.



Shallow Foundation Design and Construction

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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

7.0 PDHs

Architects

7.0 Public Protection PDUs

7.0 AIA HSW Learning Units

Contractors

Non-Credit Continuing Ed.



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Faculty

Amin Tomeh, PE, PMP, DGE *Principal, Matrix Engineering Group, Inc.*

Mr. Tomeh is a principal and co-founder of Matrix Engineering Group, an award-winning consultancy group, based in Atlanta, Georgia, specializing in geotechnical engineering, environmental engineering, construction materials testing, special inspections and geophysical surveys. He is a registered professional engineer and a certified project management professional. Mr. Tomeh has pioneered several systems and work flow processes as they relate to ICC special inspections and construction materials testing; and he has innovated the use of geophysics (refraction and multi-channel analysis of surface waves) to non-invasively enhance and supplement the traditional geotechnical characterization of sites and important structures. He is an adjunct professor at Southern Polytechnic State University Department of Construction Management and serves on the Commercial Construction Management Advisory Board at Gwinnett Technical College. Mr. Tomeh is a voting member in ASTM Committee D18 and is a member of the American Concrete Institute. He earned his bachelor of science degree in Civil Engineering from the University of Pittsburgh and his master of science degree in Civil Engineering from the Georgia Institute of Technology. Mr. Tomeh was accepted in 2015 into the Academy of Geo-Professionals (AGP), as a diplomate, geotechnical engineering (D.GE). Considered one of the highest designations in the geo-profession, only about 300 engineers have achieved the D.GE status.

Sam Alyateem, PE *Founding member of Matrix Engineering Group, Inc.*

Mr. Alyateem is a registered civil engineer and a founding member of Matrix Engineering Group, Inc., Philadelphia Post Tensioning, LLC, and LGC Grading & Construction, Inc. He has over 34 years of experience in engineering and construction fields. Mr. Alyateem received his bachelor degree in Civil Engineering and master of science degree in Geotechnical Engineering from University of North Carolina at Charlotte. Mr. Alyateem is a registered professional engineer in the states of Georgia, North Carolina, Alabama, and Mississippi. He served on the 2012 SEAOG/ACEC Special Inspections Committee commissioned to review and update of Georgia 2012 Amendments to the International Building Code, as well as on the DeKalb County permitting improvement process committee. He has SBCCI building inspector certification, ICC residential building inspector certification and Level II certified design professional – GSWCC. He has authored and co-authored several technical engineering publications in the geotechnical field. Mr. Alyateem worked on several large projects in the Southeast including large commercial and institutional facilities, airports, water and wastewater treatment plants, land developments, tunnels, and high-rise structures. Most notable projects include Atlanta Hartsfield Airport expansion projects, most of the Atlanta Olympic projects, and several MARTA expansion projects including underground structures, buildings, and aerial structures.

Seminar Information

Embassy Suites - Galleria

2815 Akers Mill Road SE
Atlanta, GA 30339
(770) 984-9300

Registration
8:00 - 8:30 am
Morning Session
8:30 - 11:45 am
Lunch (On your own)
11:45 am - 12:45 pm
Afternoon Session
12:45 - 5:00 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.

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs to Georgia professional engineers and 7.0 Public Protection PDU to Georgia architects. Educators and courses are not subject to preapproval in Georgia.

This seminar is approved by the American Institute of Architects for 7.0 HSW Learning Units (Provider No. J885). Only full attendance can be reported to the AIA/CES.

Architects and engineers seeking continuing education credit in other states will be able to apply the hours earned at this seminar. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is an approved continuing education provider for Florida architects and is deemed an approved architect continuing education sponsor in New York.

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

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

Off-Grid Master Class

• Off-Grid Master Class, Part I

Wed., April 17, 2019, 11:00 AM - 2:15 PM CDT

• Off-Grid Master Class, Part II

Thur., April 18, 2019, 11:00 - 2:15 PM CDT

Soil Engineering

• Introduction to Soil Engineering

Thurs., April 25, 2019, 11:00 AM - 12:30 PM CDT

• Design of Excavation Support Systems

Thurs., April 25, 2019, 1:00 - 2:30 PM CDT

• Slope Repair Techniques

Fri., April 26, 2019, 11:00 AM - 12:30 PM CDT

• Soil Engineering after College: Practical Approaches to Foundations and Retaining Structures

Fri., April 26, 2019, 1:00 - 2:30 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	Code:	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066		
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: _____

Expiration Date: _____ CVV2 Code: _____

Cardholder Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Email: _____