

Agenda

*Presented by David Finocchio,
Michael Marasa, Kenneth Campbell,
Ryan Giertz and Jordan Medich*

Soil Mechanics and Earth Retention Design

Introduction to Earth Retention & Underpinning Options
Basic Earth Pressure Theory
Soil Explorations
Wall Pressures – Earth, water, surcharge

Earth Retention and Underpinning Systems

Shotcrete and soil nail walls
Soldier pile and sheet pile walls
Secant and deep soil mix walls
Internal bracing and tieback anchor systems
Conventional pit and jet grout underpinning

Earth Retention and Underpinning Case Histories

Ground Modification

Vibro technologies
(vibro replacement, vibro compaction, aggregate piers)
Rigid inclusions
Soil mixing technologies (soil mix, DSM)

Drilled Shafts

Applications
Methods of construction

Driven Piles and Micropiles

Applications
Methods of construction

Geotechnical Instrumentation Case Histories

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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.

Deep Excavations

Charleston, WV - Thursday, November 1, 2018

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Learning Objectives

You'll be able to:

Investigate soil mechanics and learn principles of soil retention design.

Review basic earth pressure theory.

Learn about the use of sheet pile and soldier pile walls, and tieback anchor systems.

Explore techniques for ground modification, including vibro technologies.

Examine deep foundations, including driven piles and micropiles.



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Understand soil mechanics and earth retention design

Explore basic earth pressure theory

Examine ground modification techniques

Learn about construction foundations using drilled shafts and CFA

Discuss deep foundation case histories

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 Continuing Ed. Hours (HSW)

AIA Pending

Contractors

Non-Credit Continuing Ed.



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David W. Finocchio, PE
Sr. Engineer, Business Development Mgr., Hayward Baker
Mr. Finocchio has over 24+ years of geotechnical engineering and consulting experience including design and construction of excavation support, underpinning, drilled micropile, drilled shaft, auger cast and driven pile projects for private and public-sector clients. Current responsibilities include technical oversight and administration of Hayward Baker’s northern region business development activities. Mr. Finocchio holds bachelor’s and master’s degrees in Civil Engineering from the University of Massachusetts Amherst and is a registered professional engineer in the Commonwealth of Massachusetts. He is past GI-Board Chairman for the Boston Society of Civil Engineers.

Michael J. Marasa, PE
Sr. Engineer, Business Development Mgr., Hayward Baker
Mr. Marasa is a graduate of the University of Louisville with advanced studies in the geosciences. Since joining Hayward Baker in 2005, Mr. Marasa has used his 39+ years of experience as a practicing geotechnical engineer to assist engineers and contractors with matching appropriate geotechnical construction techniques with specific site challenges. He frequently makes in-house presentations to

Seminar Information

Four Points by Sheraton Charleston
600 Kanawha Blvd.
Charleston, WV 25301
(304) 344-4092

Tuition
\$279 for individual registration
\$259 for three or more registrations.

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How to Register

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- 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.

engineering and construction firms to educate or update staffs on current ground improvement and foundation construction techniques including grouting, micropiles, earth retention, vibro techniques and many others. Mr. Marasa has published articles and papers internationally, including papers on ground improvement, landslide mitigation, concrete sampling and testing, micropiles, soil mixing and sinkhole repair. He has made presentations at numerous seminars and short courses across the United States and in Canada. Additionally, Mr. Marasa leads instructional sessions on ground improvement and other specialty geotechnical construction techniques.

Kenneth Campbell
Geo Instruments, Business Development Manager
Mr. Campbell has been with Geo-Instruments for the past seven years working on the acquisition, planning and execution of geotechnical instrumentation projects worldwide. Geo-Instruments specializes in geotechnical instrumentation and systems integration, with focus on real time data acquisition and web data posting. The firm’s work includes difficult projects requiring custom solutions that most walk away from. Mr. Campbell was educated at the British Army School of Electrical & Mechanical Engineering.

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW (Public Protection) continuing education hours to architects in all states, excluding Florida architects. Educators and courses are not subject to preapproval in West Virginia.

HalfMoon Education is approved as a continuing education provider by the American Institute of Architects (Sponsor No. J885). Course approval is pending. Only full attendance can be reported to the AIA/CES.

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 deemed an approved continuing education sponsor for New York architects.

This seminar offers a non-credit continuing education opportunity to construction contractors. It has not been reviewed by any state contractor licensing entity for continuing education purposes.

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.

Ryan Giertz, P.E.
Project Engineer, Hayward Baker
Mr. Giertz has over five years of experience as a specialty geotechnical contractor working on design and construction of excavation support, drilled micropile, drilled shaft, retaining wall, and construction dewatering projects for clients across the Mid-Atlantic region and beyond. Currently he works out of Hayward Baker’s Pittsburgh location and serves within the company’s Mid-Atlantic region providing preliminary design, cost estimation, and project management. Mr. Giertz holds bachelor’s and master’s degrees from the University of Illinois and is a registered professional engineer in the State of Illinois.

Jordan Medich
Assistant District Manager
Mr. Medich oversees the daily operation of the McKinney Drilling’s Charleston, WV office. He is a practicing engineer specializing in design and construction of drilled shaft and secant pile earth retention projects. He holds undergraduate degree from Tufts University of Pittsburgh and has been with McKinney Drilling Co. for 8 years.

Additional Learning

- Webinar Series**
- HEC-RAS Webinar Series**
- **Hydraulic Principles and Applications**
Thurs., Oct. 18, 2018, 11:00 AM - 1:00 PM CDT
 - **Working with the HEC-RAS User Interface**
Thurs., Oct. 18, 2018, 1:30 - 3:00 PM CDT
 - **Water Surface Profiling**
Fri., Oct. 19, 2018, 11:00 AM - 1:00 PM CDT
 - **Steady Flow Surface Profile Demonstrations**
Fri., Oct. 19, 2018, 1:30 - 3:30 PM CDT

- Construction Cost Estimating**
- **Introduction to Cost Estimating**
Thurs., Oct. 25, 2018, 11:00 AM - 12:30 PM CDT
 - **Cost Components – A Closer Look at the Estimates**
Thurs., Oct. 25, 2018, 1:00 - 3:00 PM CDT
 - **Cost Estimate Organization and Examples**
Fri., Oct. 26, 2018, 11:00 AM - 1:00 PM CDT
 - **Cost Estimating Topics**
Fri., Oct. 26, 2018, 1:30 - 3:00 PM CDT

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Registration

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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)
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