

# Agenda

*Presented by Justin Lewis and Tyler James*

## Morning Session: Earth Retention

### Soil Mechanics and Earth Retention Design

- Soil investigation
- Developing earth pressures
- Applicable codes and standards
- Design examples

### Earth Retention Systems, Part 1

- Sheet pile and soldier pile walls
- Bracing systems
- Tieback anchors
- Soil nail walls

### Earth Retention Systems, Part 2

- Secant pile and diaphragm walls
- Top down excavation
- Case histories

## Afternoon Session: Foundations

### Ground Modification

- Vibro technologies
- Grouting technologies

### Drilled Shafts and CFA

- Applications
- Methods of construction

### Driven Piles and Micropiles

- Applications
- Methods of construction

### Deep Foundation Case Histories

#### Can't Attend? Order the Manual and the 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.

## Deep Foundations and Excavations

South Bend, IN - Thursday, April 25, 2019

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## Learning Objectives

### *You'll be able to:*

**Review** soil mechanics and consider applicable codes and standards.

**Explore** retention systems, including sheet pile and soldier pile walls.

**Consider** bracing systems, diaphragm walls and top-down excavation.

**Learn** ground modification techniques, including vibro technologies.

**Discuss** applications for drilled shaft, driven piles, micropiles and CFA.



# Deep Foundations and Excavations

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**Understand** soil mechanics and earth retention design

**Identify** applicable codes and standards

**Explore** different earth retention systems

**Examine** ground modification

**Learn** about drilled shafts and CFA

**Learn** about driven piles and micropiles

**Discuss** deep foundation case histories

## Continuing Education Credits

### **Professional Engineers**

6.5 Continuing Ed. Hours

### **Architects**

6.5 HSW Contact Hours

6.5 AIA HSW Learning Units

### **Contractors**

Non-Credit Continuing Ed.



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# Faculty

**Justin Lewis, P.E. (IL)**  
*Division Manager for the Structural Support and Earth Retention System group*  
Mr. Lewis is a graduate of the University of Illinois at Urbana-Champaign with B.S. (2007) and M.S. (2008) degrees in Civil and Environmental Engineering with a focus on geotechnical engineering. He has worked at Hayward Baker for more than nine years after joining upon completion of his degrees in 2008. He has worked with a wide variety of technologies that Hayward Baker has to offer with particular experience in the fields of jet grouting, earth retention, micropiles, and driven piles. Mr. Lewis has previously held roles as field engineer, project engineer, and project manager. He currently serves as division manager for the Structural Support and Earth Retention System group in the Midwest with responsibilities for managing and supporting a talented team bidding, designing, and managing earth retention and deep foundation projects. Particular areas of expertise and/or experience include jet grouting (structural/bottom seal), sheet piling, soldier beams and lagging, secant/tangent piles, internal bracing, tiebacks, driven piles, and micropiles.

**Tyler James**  
*Project Manager and Superintendent for Case Foundation*  
Mr. James holds B.S. and M.S. degrees in Civil Engineering from the University of Illinois at Urbana-Champaign. He has been part of the construction industry and Case Foundation for over 10 years. Mr. James is a member of the American Society of Civil Engineers (ASCE), Deep Foundations Institute (DFI), and the ADSC. He has worked on a number of notable projects including:  
- The I-65 Lincoln Bridge in Louisville, KY  
- The I-40 over the White River Bridge in Hazen, AR  
- The Tappan Zee Bridge in New York  
- Secant wall and drop and vent shafts for the Jefferson Barracks Tunnel Project in StLouis, MO  
- Auger Cast Piles for the CONRAC Facility at O'Hare Airport in Chicago, IL  
Mr. James' area of expertise is in soil and rock bearing drilled shafts, secant walls, augercast piles, and deep rock drilling.

# Seminar Information

<b>Doubletree by Hilton</b> 123 North Dr. Martin Luther King Jr. Blvd. South Bend, IN 46601 (574) 234-2000	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 - 4:30 pm
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**Tuition**  
**\$289** for individual registration  
**\$269** for three or more simultaneous registrations.

**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](http://www.halfmoonseminars.org).

**How to Register**  
• Visit us online at [www.halfmoonseminars.org](http://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**  
**Structural Forensic Engineering**  
• **Introduction to Forensic Engineering Process**  
Wed., March 27, 2019, 11:00 AM - 1:00 PM CDT  
• **Causes of Failures and the Forensic Engineering Report**  
Wed., March 27, 2019, 1:30 - 3:30 PM CDT  
• **Forensic Examination of Structures and Use in Litigation**  
Thurs., March 28, 2019, 11:00 AM - 1:00 PM CDT

**Foundation Damage and Repair**  
• **Structure Loads, Soil Mechanics, Bearing Capacity and Geo-Environmental Hazards**  
Thurs., March 28, 2019, 11:00 AM - 12:30 PM CDT  
• **Foundation-Wall Design and Construction**  
Thurs., March 28, 2019, 1:00 - 2:30 PM CDT  
• **Assessment of Foundation-Slab Damage & Repair Alternative**  
Fri., March 29, 2019, 11:00 AM - 12:30 PM CDT  
• **Assessment of Foundation-Retaining Wall Damage & Repair Alternatives**  
Fri., March 29, 2019, 1:00 - 2:30 PM CDT

**HEC-RAS Webinar Series**  
• **Hydraulic Principles and Applications**  
Tues., April 2, 2019, 11:00 AM - 1:00 PM CDT  
• **Working with the HEC-RAS User Interface**  
Tues., April 2, 2019, 1:30 - 3:00 PM CDT  
• **Water Surface Profiling**  
Wed., April 3, 2019, 11:00 AM - 1:00 PM CDT  
• **Steady Flow Surface Profile Demonstrations**  
Wed., April 3, 2019, 1:30 - 3:30 PM CDT

**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

For more information and other online learning opportunities visit:  
[www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

## Continuing Education Credit Information

This seminar is open to the public and offers 6.5 continuing education hours/PDHs to professional engineers and 6.5 HSW contact hours to architects in all states. HalfMoon Education is an approved continuing education provider for Indiana engineers (License No. CE21700059). Architect continuing education providers and courses are not subject to preapproval in Indiana.

The American Institute of Architects has approved this course for 6.5 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES.

HalfMoon Education is an approved engineer continuing education provider in Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved architect continuing education sponsor in New York.

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

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

**Deep Foundations and Excavations**  
South Bend, IN - Thursday, April 25, 2019

How to Register		Registrant Information
Online: <a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900		<b>Additional Registrants:</b> Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
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
( ) <b>I will be attending the live seminar.</b> Single Registrant - <b>\$289.00</b> . Three or more registrants from the same company registering at the same time - <b>\$269.00</b> each.
( ) <b>I am not attending.</b> Please send me the self-study package: <input type="checkbox"/> Downloadable MP3 Audio/PDF Manual for <b>\$269.00</b> . <input type="checkbox"/> CD/Manual Package for <b>\$289.00</b> . (S&H included. Please allow five weeks from seminar date for delivery)
<b>Checks:</b> Make payable to HalfMoon Education Inc.
<b>Credit Card:</b> <i>Mastercard, Visa, American Express, or Discover</i>
Credit Card Number: _____
Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
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