

Agenda

Presented by *Dimitrios C. Konstantakos, P.E.*

Deep Excavations: Introduction

Defining deep excavations
Types of deep excavations
Methods of stabilization
Common problems and challenges

Soil Mechanics and Sheet Pile Walls

Understanding soil response
Basic earth pressure theory
Cantilever wall analysis
Anchored sheet pile walls

Braced Excavation Design

Braced walls
Apparent earth pressures
Analysis methods

Cofferdams

Applications for cofferdams
Methods of constructing
Design details and methods

ASD and LRFD Design

ASD vs LRFD design framework
LRFD limitations
Design examples

Deep Excavation Design Computer Lab

Solving braced excavations
Case history

Attendees are encouraged – but **NOT** required – to bring a laptop for the final section of the course, during which time they will have the opportunity to solve a design problem using the DeepEX 2017 software. Requires a PC (or Mac with Windows partition) and at least 45 minutes of battery life.

Deep Excavations

New Orleans, LA - Tuesday, March 19, 2019



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

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Learning Objectives

You'll be able to:

Identify types of deep excavations and learn about soil mechanics and basic earth pressure theory.

Examine design and construction of cantilever and anchored sheet pile walls.

Explore appropriate applications for cofferdams, and review construction methods.

Compare ASD and LRFD design framework, and discuss the limitations of LRFD design.

Apply what you have learned to braced excavation problems and case studies.



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Learn about different types of deep excavations and explore common problems and challenges

Understand basic earth pressure theory and discuss methods of excavation stabilization

Learn about applications for cofferdams

Analyze ASD vs. LRFD design framework using design examples

Apply what you have learned to braced excavation problems and case histories

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 HSW CEHs

6.5 AIA HSW Learning Units

Contractors

Non-Credit Continuing Ed.



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Faculty

Dimitrios C. Konstantakos, P.E., is the founder and CEO of Deep Excavation LLC, a developer of user-friendly, robust, high-quality, integrated deep excavation calculation and design software. He is also the current chair of the ASCE's Earth Retaining Structures Committee. Mr. Konstantakos holds a master of science degree in Civil/Geotechnical Engineering from the Massachusetts Institute of Technology, and a BS degree in Civil Engineering from the University of Massachusetts Lowell. He has been involved in the design of bridge foundations, tunnels, deep excavations, finite element simulations, piers and bulkheads, and pile foundations, and he has been involved in field inspections. His experience includes structural engineering with a leading geotechnical firm in New York, New York. He is a professional engineer in the states of New York and West Virginia, and he is an EU P.E. in Geotechnical Engineering. Mr. Konstantakos has also taught Support of Excavation Systems as an adjunct professor at New York University.

Here's what past attendees had to say about the program and speaker Dimitrios Konstantakos:

"Very well done." – *Engineer*

"Excellent delivery and communication of material." – *Civil/Structural Engineer*

"Very informed and well versed in subject matter. Lots of great examples." – *Architect*

Seminar Information

Pan American Conference and Media Center

601 Poydras Street, 11th Floor
New Orleans, LA 70130
(504) 200-5730

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

Tuition

\$289 for individual registration

\$269 for three or more registrations.

Each registration includes a 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. You may also send another person to take your place.

Additional Learning

Webinar Series

Off-Grid Master Class

- **Off-Grid Master Class, Part I**
Wed., Feb. 6, 2019, 11:00 AM -2:15 PM CST
- **Off-Grid Master Class, Part II**
Thurs., Feb. 7, 2019, 11:00 AM -2:15 PM CST

Complying with ADA Standards for Accessible Design

- **Complying with Federal and State Accessibility Requirements**
Thurs., Feb. 7, 2019, 11:00 AM -1:30 PM CST
- **Meeting Requirements in IBC and ADA Standards**
Fri., Feb. 8, 2019, 11:00 AM -1:30 PM CST

For more information and other online learning opportunities visit: www.halfmoonseminars.org/webinars/

Special Inspections

- **Introduction to Chapter 17: Special Inspections**
Wed., Feb. 13, 2019, 11:00 AM -12:30 PM CST
- **Soils and Foundations**
Wed., Feb. 13, 2019, 1:00 -2:30 PM CST
- **Reinforced Concrete and Structural Steel**
Thurs., Feb. 14, 2019, 11:00 AM -12:30 PM CST
- **ACT Ceiling Grid, Epoxy Anchors, and Fire Penetrations**
Thurs., Feb. 14, 2019, 1:00 -2:30 PM CST

Foundations in Cold Regions

- **Introduction to Cold Regions Foundations**
Thurs., Feb. 21, 2019, 11:00 AM -12:30 PM CST
- **Shallow Foundation Design in Cold Regions**
Thurs., Feb. 21, 2019, 1:00 -2:30 PM CST
- **Deep Foundation Design in Cold Regions**
Fri., Feb. 22, 2019, 11:00 AM -12:30 PM CST
- **Foundation Construction in Cold Regions**
Fri., Feb. 22, 2019, 1:00 -2:00 PM CST

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states. Educators and courses are not subject to preapproval in Louisiana.

The American Institute of Architects has approved this event for 6.5 HSW Learning Units (Sponsor No. J885). The Louisiana State Board of Architectural Examiners accepts programs approved by the American Institute of Architects. Only full attendance can be reported to the AIA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Sponsor No. 0004647), Indiana, Maryland, New Jersey, New York (NYSSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for architects in New York.

This course offers a non-credit continuing education opportunity for construction contractors, but it is not approved in any state with a contractor continuing education requirement.

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!

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: _____
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 - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

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: _____