

# Credit Information

## Deep Foundations and Excavations

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers and 7.0 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00049300) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 7.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

## On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request: 7.0 HSW LUs (AIA)

## Hot-Mix Asphalt Pavement Design, Maintenance and Rehabilitation

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers, 6.0 HSW continuing education hours for licensed architects, and 6.0 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00049300) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects and landscape architects via its registration with the American Institute of Architects Continuing Education System (AIA/CES) and the Landscape Architecture Continuing Education System (LA/CES). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES. The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs. Only full participation is reportable to the LA CES. The International Code Council has approved this event for .6 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

## On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request: 6.0 HSW LUs (AIA), 6.0 HSW PDHs (LA CES)

**Live, Interactive Webinars**

- Deep Foundations and Excavations
- Hot-Mix Asphalt Pavement Design, Maintenance and Rehabilitation

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# Live, Interactive Webinars

## Deep Foundations and Excavations

- Thursday, December 5, 2024 | 8:30 am - 4:30 pm CST

## Hot-Mix Asphalt Pavement Design, Maintenance and Rehabilitation

- Friday, December 6, 2024 | 9:00 am - 4:00 pm CST

To register, view detailed presenter biographies, and see other learning opportunities, please visit:  
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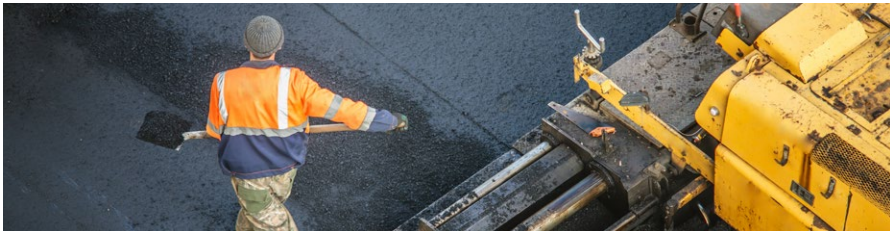
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## Deep Foundations and Excavations

Thursday, December 5, 2024 | 8:30 am - 4:30 pm CST

Credits: Professional Engineers: 7.0 PDHs  
Architects: 7.0 HSW CE Hours | AIA: 7.0 LU | HSW  
International Code Council: .7 CEUs (Sitework)



## Hot-Mix Asphalt Pavement Design, Maintenance and Rehabilitation

Friday, December 6, 2024 | 9:00 am - 4:00 pm CST

Credits: Professional Engineers: 6.0 PDHs  
Architects: 6.0 HSW CE Hours | AIA: 6.0 LU | HSW  
Landscape Architects: 6.0 HSW CE Hours | LA CES: 6.0 HSW PDHs  
International Code Council: .6 CEUs (Building)

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# Deep Foundations and Excavations

Thursday, December 5, 2024 | 8:30 am - 4:30 pm CST

**Tuition:** \$339 per registrant  
\$237 per attendee for group registrations of two or more people registering at the same time for the same program. ***That's a savings of 30 percent!***

**Credits:** Professional Engineers: 7.0 PDHs  
Architects: 7.0 HSW CE Hours | AIA: 7.0 HSW LUs  
International Code Council: .7 CEUs (Sitework)

**Agenda:**

**Soil Mechanics, Bearing Capacity, and Earth Retention**

Understanding soil characteristics	A. Vytiniotis
Bearing capacity	M. Mousavi
Bracing systems	
Soil nail walls	
Secant pile and diaphragm walls	
Using cofferdams	

**Exploring Deep Foundation Types**

Types of deep foundations	A. Vytiniotis
• Driven piles	M. Mousavi
• Auger cast piles	
Hybrid foundations	
• Grouping piles	
• Selecting foundation type: life expectancy, cost, soil conditions	

**Pile Design**

Effective stress	A. Vytiniotis
Estimating axial capacity	M. Mousavi
Skin friction end bearing	
Computing settlement	
Lateral capacity design	
Battered piles	

**Testing Methods of Deep Foundations for Structural**

**Integrity and Geotechnical Load Bearing Capacity Evaluations**

Driven piles, drilled shafts, and auger-cast piles	M. Hussein
Wave equation analysis, dynamic load testing, bi-directional-static load testing, low-strain integrity testing	
Cross-hole sonic logging, thermal integrity profiling	
Case studies	

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**Credits:** Professional Engineers: 6.0 PDHs  
Architects: 6.0 HSW CE Hours | AIA: 6.0 HSW LUs  
Landscape Architects: 6.0 HSW CE Hours | LA CES: 6.0 HSW PDHs  
International Code Council: .6 CEUs (Building)

**Agenda:**

**Principles of Pavement Design**

Applications for hot-mix asphalt pavements
Goals and considerations
Characteristics: smooth, dense, uniform surface
Terminology and technology
Codes and standards

**Asphalt Mix Design Considerations**

Aggregates
Recycled materials
Design methods
Asphalt binders

**Making Asphalt Pavements More Sustainable**

**Asphalt Installation**

Installation process
Options
Joints and transitions
Quality assurance and quality control

**Maintenance and Rehabilitation**

Establishing a maintenance program
Causes of distress and damage
Types of distress and damage
Repair and rehabilitation techniques

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# Faculty

**Deep Foundations and Excavations**

**Antonios Vytiniotis, Ph.D., P.E.**

*Director, Group Lead, Massachusetts Consulting, Geocomp*

Dr. Vytiniotis is a member of the Geo-Institute's Deep Foundation and Computation Geotechnics committees and a regional director for the Society of Construction Law – North America. He has background in structural and geotechnical engineering, geotechnical earthquake engineering, and numerical analysis. Dr. Vytiniotis has worked on numerous projects in more than 20 states and multiple countries, assisting project owners, law firms, insurance companies and developers.

**Masoud Mousavi, Ph.D., P.E.** *Project Manager at Geocomp*

Dr. Mousavi specializes in geotechnical engineering, earthquake engineering, transportation geotechnics, unsaturated soil mechanics, and in-situ and advanced laboratory soil testing. With a professional career spanning over 10 years, he has successfully contributed to a wide range of projects across multiple states, as well as in Eastern Europe, the Middle East, and Southeast Asia.

**Mohamad Hussein, P.E.,** *Executive Vice President of GRL Engineers, Inc., and Executive Director of Global Industry Relations at Pile Dynamics, Inc.*

In Mr. Hussein's 40+ years career he has consulted on more than 1,000 deep foundations projects in 35 States in the USA and several countries. He frequently organizes educational courses and seminars on deep foundations, including the American Society of Civil Engineers' (ASCE) Continuing Education Class: Deep Foundations Design, Construction, and Quality Control. In Mr. Hussein is a member of the deep foundations-related committees of DFI, ASTM, PDCA, ASCE, and TRB.

**Hot-Mix Asphalt Pavement Design, Maintenance and Rehabilitation**

**Shenghua Wu, Ph.D. PE. LEED AP**

*Engineer; Associate Professor at University of Southern Alabama*

Dr. Wu is currently an associate professor in the Department of Civil, Coastal, and Environmental Engineering at the University of South Alabama. He is the director for Interdisciplinary Center for Sustainable Engineering (ICSE), the Gulf-Coast Center for Addressing Microplastic Pollution (GC-CAMP), and the Solid Waste Sustainability Hub, and he is also the director for Sustainable Asphalt Materials Lab. Dr. Wu was a senior sustainability research engineer in the Illinois Center for Transportation at the University of Illinois at Urbana-Champaign. His research and education areas include asphalt materials characterization; smart, sustainable transportation materials for infrastructure; pavement performance evaluation; and modeling, design, and maintenance.

For more information on the presenters:

Please visit **www.halfmoonseminars.org** or scan the QR code



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