Agenda

Presented by Chris Zamaites, P.E., CFM, CPESC, ENV SP

Accommodating Multiple Purposes of Site Engineering
- Engineering for built elements
- Slope stabilization
- Stormwater management
- Landscape aesthetics
- Sustainability goals: minimizing disturbance and preserving natural features

Considering the Impact of Soils and Landforms
- Understanding the role of soils
- Soil characteristics, classification and engineering properties
- Identifying the underlying geological conditions
- Understanding the watershed
- Considering site topography: high points, low points and plane surfaces

Site Engineering and Stormwater Management and Erosion Control
- National Pollutant Discharge Elimination System (NPDES) and stormwater pollution prevention plans
- Reviewing state and local regulations
- Sediment traps and basins
- Drainage systems
- Buffer zones
- Slope stabilization

Earthwork Safety
- Weight of soil and excavation hazards
- Underground installations
- Water accumulation

Site Plans
- Site plan contents
- Soil investigation and considerations
- Surface water and groundwater considerations
- Excavation specifications and hauling
- Construction grade staking

Site Grading
- Grading for roads, sidewalks and paths
- Grading for stairs and ramps
- Grading for retaining walls
- Grading slopes

Site Program Management
- Initiation, planning, execution and closure
- Program governance
- Quality control

Case Study: Applying Science and Technology to a Site Engineering Problem

Practical Site Engineering:
Science and Techniques
Ann Arbor, MI - Tuesday, January 22, 2019

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

Learning Objectives

You'll be able to:

Engineer for built elements and landscape aesthetics while preserving natural features and minimizing disturbance.

Consider the role of soils and the impact of landforms.

Develop erosion and sediment control processes.

Understand earthwork safety considerations, including maintaining safety during underground installations.

Grade for roads, sidewalks, stairs and ramps.

Utilize case studies to understand past failures and challenges for the future.

Practical Site Engineering: *Science and Techniques*

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Accommodate multiple purposes of site engineering including stormwater management and slope stabilization

Discuss soils and landforms including soil characteristics and engineering properties, as well as site topography

Understand National Pollutant Discharge Elimination System (NPDES) requirements and stormwater pollution prevention plans

Explore site plans, including excavation specifications and construction grade staking

Apply site program management from planning to execution and closure

Continuing Education Credits

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7.0 Continuing Ed. Hours

Contractors
Non-Credit Conintuing Ed.

Architects & Landscape Architects
7.0 HSW Continuing Ed. Hours
7.0 AIA HSW Learning Units
7.0 LA CES HSW PDHs

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Faculty

Chris Zamaites, P.E., CFM, CPESC, ENV SP, *Burns & McDonnell, Chicago*

Ms. Zamaites is a senior civil engineer with Burns & McDonnell in Chicago. She has 28 years of experience with planning and design covering municipal infrastructure and commercial, residential, and recreational development, along with planned community design. Ms. Zamaites' experience includes utility design/relocation for water transmission and distribution systems; sewage collection; and stormwater management systems including that for arterial, collector and local street systems. Included with the aforementioned design experience is floodplain evaluation and management, utility relocation, hydrology and hydraulics, earthen dam inspections, stream modeling with scour countermeasures, erosion and sediment control, and compliance with all regulatory criteria associated with local planning and zoning ordinances, stormwater ordinances, and other applicable regulatory criteria from local to the federal level. Ms. Zamaites' hydrologic and hydraulic modeling experience includes HEC 1, HEC 2, WSP2, WSPRO, WIN TR-20, TR 55, SWMM, HEC-RAS, HydroCAD, SewerCAD, StormCAD, Culvert Master, and Flow Master.

Additional Learning

Webinar Series

Residential Energy Code

- **Introduction to the Residential Energy Code and Mandatory Requirements**
  Thurs., Dec. 6, 2018, 11:00 AM - 12:30 PM CST
- **IECC Residential Building Envelope Requirements**
  Thurs., Dec. 6, 2018, 1:00 - 2:30 PM CST
- **IECC Residential HVAC Requirements**
  Fri., Dec. 7, 2018, 11:00 AM - 12:30 PM CST
- **International Energy Conservation Permit Pathways**
  Fri., Dec. 7, 2018, 1:00 - 2:30 PM CST

Deep Foundations

- **Deep Foundation Site Evaluation**
  Weds., Dec. 12, 2018, 11:00 AM - 12:00 PM CST
- **Overview of Deep Foundations**
  Weds., Dec.12, 2018, 12:30 - 2:00 PM CST
- **Deep Foundation Pile Design**
  Thurs., Dec. 13, 2018, 11:00 AM - 12:30 PM CST
- **Deep Foundation Installation and Testing**
  Thurs., Dec. 13, 2018, 1:00 - 2:00 PM CST

Stormwater Management Systems

- **Stormwater Infrastructure Practices**
  Weds., Dec. 19, 2018, 11:00 AM - 1:00 PM CST
- **Infiltration Management Techniques**
  Thurs., Dec. 20, 2018, 11:00 AM - 1:00 PM CST

NFPA 70E Series

- **NFPA 70E, Part I**
  Weds., Dec. 26, 2018, 11:00 AM - 3:30 PM CST
- **NFPA 70E, Part II**
  Thurs., Dec. 27, 2018, 11:00 AM - 3:30 PM CST

Seismic Design and Construction

- **Seismology and Building Codes**
  Thurs., Dec. 27, 2018, 11:00 AM - 3:30 PM CST
- **Seismic Design of Building Structures**
  Fri., Dec. 28, 2018, 11:00 AM - 3:30 PM CST

For more information
and other online learning opportunities visit:
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Seminar Information

Courtyard by Marriott Ann Arbor
3205 Boardwalk Drive
Ann Arbor, MI 48108
(734) 995-5900

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

$279 for individual registration
$259 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.*

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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 continuing education hours to professional engineers and 7.0 HSW continuing education hours to architects and landscape architects in most states, including Michigan architects and engineers. Educators and courses are not subject to pre-approval in Michigan.

This course has been approved by the American Institute of Architects for 7.0 HSW Learning Units (Provider No. J885) and the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Only full attendance can be reported to LA/CES and AIA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), 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 and landscape architects.

This seminar offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any contractor licensing entity with a 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!
An audio recording of this seminar is available for $289. Allow four 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.

Registration

Practical Site Engineering: Science and Techniques

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How to Register

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( ) **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.

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