

Agenda

Presented by James Wilson, CPESC

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 for Stormwater Management and Erosion Control

Reviewing state and local regulations
Drainage systems
Sediment traps and basins
Buffer zones
Establishing proper building material handling and storage
Establishing equipment/vehicle fueling and maintenance practices

Low Impact Development

Principles
Design Considerations
Lessons learned

Site Plans

Site plan contents
Soil investigation and considerations
Surface water and groundwater considerations
Excavation specifications and hauling

Site Grading

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

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

Practical Site Engineering: Science and Techniques

Greensboro, NC - Wednesday, July 25, 2018



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

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Learning Objectives

You'll be able to:

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

Consider stormwater management strategies and principles of erosion and sediment control.

Discuss the impact of soils, land forms and surface water

Review site plans, stormwater BMPs and erosion control innovations.

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



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Understand the construction environment including trends in regulation and industry challenges

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

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

Review innovations in erosion control

Explore site plans and construction site stormwater permit management

Continuing Education Credits

Architects

7.0 HSW Contact Hours
7.0 AIA HSW Learning Units

Professional Engineers

7.0 PDHs

Landscape Architects

7.0 NC Continuing Ed. Hours
7.0 LA CES HSW PDHs

Floodplain Managers

7.0 ASFPM CECs

Contractors

Non-Credit Continuing Ed.



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Faculty

Lloyd A. Ntuk, PE, LEED AP
Principal, LAND Engineering, plc - Washington D.C. Metropolitan Area

Mr. Ntuk is a civil engineer with nearly 20 years of experience in the land development industry. He is the Managing Principal for LAND|Engineering, PLC, a civil engineering design firm focused on site planning, green building consulting, and construction management. Mr. Ntuk received his B.S. degree in Civil Environmental and Infrastructure Engineering from George Mason University. He spends 20 percent of his time as an executive, 30 percent as a designer, 40 percent as a geek, and 30 percent solving complex math problems. When not engaged in speaking about engineering, teaching other engineers, or engineering the world - he and his wife spend time adding to their fascinating collection of cat videos.

Here’s what past attendees had to say about the program and presenter Lloyd A. Ntuk:

“One of the best courses I have taken” – *Engineer/Project Manager*
“Good instructor! The instructor held our attention extremely well.” – *Civil Engineer*

Seminar Information

Greensboro-High Point Marriott Airport One Marriott Drive Greensboro, NC 27409 (336) 852-6450	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
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Tuition
\$279 for individual registration
\$259 for three or more simultaneous 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 or the CD/manual package. You may also send another person to take your place.

Can’t Attend? Order the CD/Manual Package:
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.

Additional Learning

Webinar Series
National Electrical Code: Onsite Power Generation and Distribution
• **National Electric Code: Onsite Power Generation and Distribution Part 1**
Weds., June 6, 2018, 11:00 AM - 2:15 PM CDT
• **National Electric Code: Onsite Power Generation and Distribution Part 2**
Thurs., June 7, 2018, 11:00 AM - 2:15 PM CDT
HVAC Series
• **Heating, Ventilation and Air Conditioning Principles**
Thurs., June 7, 2018, 11:00 AM - 1:00 PM CDT
• **HVAC System Design Considerations**
Thurs., June 7, 2018, 1:30 - 2:30 PM CDT
• **Evaluating HVAC Systems and Equipment**
Fri., June 8, 2018, 11:00 AM - 12:00 PM CDT
• **HVAC System Controls and Techniques**
Fri., June 8, 2018, 12:30 - 2:30 PM CDT

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

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 HSW contact hours to architects and 7.0 PDHs to professional engineers in all states, excluding Florida architects. HalfMoon Education is an approved continuing education provider for North Carolina engineers.

This seminar is approved by the American Institute of Architects for 7.0 HSW Learning Units (Sponsor No. J885). Activities approved by the AIA qualify for North Carolina architects. Only full attendance can be reported to the AIA/CES.

HalfMoon Education is deemed an approved architect and landscape architect continuing education sponsor in New York. 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.

The North Carolina Board of Landscape Architects has approved this event for 7.0 continuing education hours, and the Landscape Architecture Continuing Education System has approved it for 7.0 HSW PDHs.

The Association of State Floodplain Managers has approved this seminar for 7.0 CECs for certified floodplain managers.

This event offers a non-credit continuing education opportunity to construction contractors.

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.

Introduction to Vibrations
• **Introduction to Vibrations**
Thurs., June 14, 2018, 11:00 AM - 1:00 PM CDT
• **Eigenvalues, Eigenvectors and Motion**
Thurs., June 14, 2018, 1:30 - 3:00 PM CDT
• **Analysis and Test Methods**
Fri., June 15, 2018, 11:00 AM - 12:30 PM CDT
• **Designing for Vibration and Failure Analysis**
Fri., June 15, 2018, 1:00 - 2:30 PM CDT

Pedestrians and Bicycle Transport Planning
• **Introduction to Current Conditions and Trends in Biking and Walking**
Thurs., June 21, 2018, 11:00 AM - 12:30 PM CDT
• **Engineering and Infrastructure: Design for Walkability and Bikeability**
Thurs., June 21, 2018, 1:00 - 2:30 PM CDT
• **Developing a Walking and Biking Plan, Part I**
Fri., June 22, 2018, 11:00 AM - 12:30 PM CDT
• **Developing a Walking and Biking Plan, Part II**
Fri., June 22, 2018, 1:00 - 2:30 PM CDT

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		
Fax: 715-835-6066		
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ 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.
Complete the entire form. Attach duplicates if necessary.		

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)
Checks: Make payable to HalfMoon Education Inc.
Credit Card: <i>Mastercard, Visa, American Express, or Discover</i> Credit Card Number: _____ Expiration Date: _____ CVV2 Code: _____ Cardholder Name: _____ Billing Address: _____ City: _____ State: _____ Zip: _____ Signature: _____ Email: _____