

Agenda

Presented by Josh Rabon, P.E.

Accommodating Multiple Purposes of Site Engineering

Land studies (zoning, existing infrastructure, topography)
Traffic considerations
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 Slope stabilization
Establishing proper building material handling and storage
Establishing equipment/vehicle fueling and maintenance practices

Earthwork Safety

Weight of soil and excavation hazards
Underground installations Water accumulation

Traffic Considerations

Existing roadway connections
Trip generation Offsite mitigation

Site Plans

Site plan contents Soil investigation and considerations
Surface water and groundwater considerations
Utilities Erosion control
Traffic control Details

Site Grading

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

Site Project Management

Shop drawings Field engineering
Value added engineering Unknown conditions

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

Practical Site Engineering: Science & Techniques

Columbia, SC - Wednesday, April 22, 2020



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Learning Objectives

You'll be able to:

Engineer construction sites for slope stabilization, stormwater management, and landscape aesthetics.

Consider the impact of soil characteristics and engineering properties.

Discuss procedures for ensuring earthwork safety.

Improve site grading for roads, sidewalks and paths.

Develop site plans and manage site work with a focus on quality control.



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Practical Site Engineering: Science & Techniques

Live in-Person Seminar or Live Online Webinar

Columbia, SC - Wednesday, April 22, 2020



Accommodate multiple purposes of site engineering

Consider the impact of soils and landforms

Manage stormwater and control erosion

Discuss existing roadway connections and onsite traffic

Maintain earthwork safety

Explore site plans and site grading, as well as site program management

Continuing Education Credits

Professional Engineers

7.0 PDHs

Contractors

Non-Credit Continuing Ed.

Architects

7.0 HSW CEHs

7.0 AIA LU|HSW

As a result of recent health and safety concerns regarding the COVID-19 virus, this seminar will also be offered as a live webinar (instructions will be sent via email before the date of the webinar). Visit us online at www.halfmoonseminars.org to learn more.



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Faculty

Josh Rabon, P.E. *Vice President at Civil Engineering of Columbia, Inc.*

Mr. Rabon is vice president and managing partner of Civil Engineering of Columbia, Inc. (CEC). CEC is a multi-disciplinary design, planning, and surveying firm in Columbia, South Carolina. Mr. Rabon holds a bachelor of science degree in Civil Engineering from the University of South Carolina and master’s degree in Business Administration from Southern Wesleyan University. He is a licensed professional engineer in South Carolina, North Carolina, and Georgia. Mr. Rabon has managed dozens of projects in the central midlands area that have a breadth of detention and retention practices, including infiltration and LID. Prior to Civil Engineering of Columbia, he was a storm drainage engineer for the City of Columbia Department of Utilities and Engineering, with responsibilities including oversight of emergency projects and investigation of flooding complaints. Mr. Rabon is a graduate of The South Carolina Economic Development Institute and Leadership Lexington County, and he is a member of the Building Industry Association of Central South Carolina, the Central South Carolina Alliance Committee of 100, the South Carolina Economic Developers Association, and the Water Environment Association of South Carolina.

Seminar Information

Log into Webinar 8:00 - 8:30 am EDT	Break 11:45 am - 12:45 pm EDT
Morning Session 8:30 - 11:45 am EDT	Afternoon Session 12:45 - 5:00 pm EDT

Tuition
\$299 for individual registration
\$279 for three or more simultaneous registrations.

Included with your registration: Seminar manual in PDF format.

How to Register

- Visit us online at www.halfmoonseminars.org/webinars/
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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.

Additional Learning

Webinar Series

- Tree Science**
- **Biology and Benefits of Trees**
Wed., April 15, 2020, 11:00 AM - 1:00 PM CDT
 - **Tree Infrastructure: Design Elements That Appreciate**
Wed., April 15, 2020, 1:30 - 3:00 PM CDT
 - **Trees and Site Requirements**
Thurs., April 16, 2020, 11:00 AM - 12:00 PM CDT
 - **Project Completion and Tree Threat Prevention**
Thurs., April 16, 2020, 12:30 - 12:30 PM CDT

- Structural Forensic Engineering**
- **Overview of the Role of Forensic Engineering**
Thurs., April 16, 2020, 11:00 - 12:30 PM CDT
 - **Forensic Engineering Process and Forensic Engineering Report**
Thurs., April 16, 2020, 1:00 - 3:00 PM CDT
 - **Causes of Structural Failures**
Fri., April 17, 2020, 11:00 - 12:30 PM CDT
 - **Forensic Examination of Structures and Use in Litigation**
Fri., April 17, 2020, 1:00 - 3:00 PM CDT

- Water Conservation**
- **Reviewing the Owner’s Commitment to Water Conservation and Applicable Codes and Standards**
Thurs., April 23, 2020, 11:00 AM - 12:30 PM CDT
 - **Assessing the Building Site**
Thurs., April 23, 2020, 1:00 - 2:00 PM CDT
 - **Conserving and Reducing Water Use**
Fri., April 24, 2020, 11:00 AM - 1:00 PM CDT
 - **Onsite Water Recycling and Minimizing Water Use**
Fri., April 24, 2020, 1:30 - 3:30 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. It offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects in all states. Educators and courses are not subject to preapproval in South Carolina.

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The American Institute of Architects Continuing Education System has approved this course for 7.0 LU|HSW (Sponsor No. J885). Visit www.halfmoonseminars.org for complete AIA course information under this seminar listing. Only full attendance is reportable to the AIA/CES.

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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.

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Registration

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Tuition	
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