

Agenda

Presented by Josh Rabon, P.E.

Stormwater Management System Objectives and Design Considerations

- Complying with stormwater regulations
- Site assessment
- Preparing stormwater pollution prevention plans
 - Stormwater goals
 - Design considerations

Stormwater Basin/Underground System Design

- Selection criteria
 - Impact area
 - Watershed and terrain considerations
 - Stormwater contents
 - Community and environmental factors

Choosing Basin Types

- Detention basins
 - Stormwater routing, sediment handling, outlet
- Retention ponds
 - Stormwater routing, sediment handling, soils and vegetation

Infiltration basins

- Stormwater routing, sediment and chemical handlings, soils and vegetation

Choosing an Underground Storage System

- Retention systems
 - Stormwater routing, sizing, design criteria
- Detention/infiltration systems
 - Stormwater routing, infiltration, sizing, design criteria

Sustainable Best Practices in Stormwater Detention/Retention

- Naturalizing detention/retention basins
- Small detention areas vs. large detention area
- Rain gardens
- Underground storage and water reuse options

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.

Stormwater Basins and Underground Systems

Columbia, SC - Thursday, November 14, 2019



HalfMoon Education Inc.
PO Box 278
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Learning Objectives

You'll be able to:

Comply with stormwater regulations, understand site assessment criteria, and assist with stormwater pollution prevention planning.

Explain the selection criteria for stormwater basin and underground system design.

Select and size basin types, including detention basins, retention ponds and infiltration basins.

Explore underground systems for retention and detention.

Discuss sustainable best practices in stormwater retention and detention.



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Understand stormwater management system objectives and design considerations

Select detention and retention basins

Identify criteria for choosing an underground storage system

Consider stormwater routing, sediment handling, soils and vegetation

Learn about the best sustainable practices in stormwater retention/detention

Continuing Education Credits

Professional Engineers
6.5 PDHs

Floodplain Managers
6.5 ASFPD CECS

Architects & Landscape Architects
6.5 HSW Continuing Ed Hours
6.5 AIA LU/HSW
6.5 LA CES HSW PDHs

Contractors
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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 of Business Administration degree 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, South Carolina Economic Developers Association, and the Water Environment Association of South Carolina.

Seminar Information

Marriott Columbia 1200 Hampton Street Columbia, SC 29201 (803) 771-7000	Registration 8:00 - 8:30 am Morning Session 8:30 am - 12:15 pm	Lunch (On your own) 12:15 - 1:15 pm Afternoon Session 1:15 - 4:30 pm
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Tuition

\$289 for individual registration

\$269 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.

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 self-study package. You may also send another person to take your place.

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Additional Learning

Webinar Series

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development, Part I**
Wed., Oct. 2, 2019, 11:00 AM - 2:15 PM CDT
- **Solar Photovoltaic Project Design and Development, Part II**
Thurs., Oct. 3, 2019, 11:00 AM - 2:15 PM CDT

Special Inspections

- **Introduction to Chapter 17: Special Inspections**
Thurs., Oct. 10, 2019, 11:00 AM - 12:30 PM CDT
- **Soils and Foundations**
Thurs., Oct. 10, 2019, 1:00 - 2:30 PM CDT
- **Reinforced Concrete and Structural Steel**
Fri., Oct. 11, 2019, 11:00 AM - 12:30 PM CDT
- **ACT Ceiling Grid, Epoxy Anchors, and Fire Penetrations**
Fri., Oct. 11, 2019, 1:00 - 2:30 PM CDT

Component Tolerance Analysis

- **Introduction to Component Tolerance Analysis**
Thurs., Oct. 17, 2019, 11:00 AM - 12:00 PM CDT
- **Dimensional Tolerance Analysis**
Thurs., Oct. 17, 2019, 12:30 - 3:00 PM CDT
- **Application of Dimensional Tolerance Analysis**
Fri., Oct. 18, 2019, 11:00 AM - 2:15 PM CDT

National Electrical Code

- **National Electrical Code, Part I**
Tues., Oct. 22, 2019, 11:00 AM - 3:30 PM CDT
- **National Electrical Code, Part II**
Wed., Oct. 23, 2019, 11:00 AM - 3:30 PM CDT
- **National Electrical Code, Part III**
Thurs., Oct. 24, 2019, 11:00 AM - 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 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states and 6.5 CEHs to landscape architects in most states, including South Carolina. Educators and courses are not subject to preapproval in South Carolina.

This event has been approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Only full attendance can be reported to the AIA/CES and LA/CES. Visit www.halfmoonseminars.org for complete AIA/CES information under this course listing.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects and landscape architects.

HalfMoon Education has applied to the North Carolina Board of Landscape of Architects for course approval, which is under review. Please confirm course approval prior to registering for this event.

The Association of State Floodplain Managers has approved this event for 6.5 CECs.

This course 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.

Registration

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How to Register	
Online: www.halfmoonseminars.org	
Phone: 715-835-5900	
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Complete the entire form. Attach duplicates if necessary.	
Registrant Information Name: _____ Company/Firm: _____ Address: _____ City:____State: ____ Zip_____	
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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.	

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.	
() I am not attending. Please send me the self-study package: ☐ Downloadable MP3 Audio/PDF Manual for \$269.00 . ☐ CD/Manual Package for \$289.00 . ☐ USB/Manual Package \$289.00 . (S&H included. Please allow five weeks from seminar date for delivery)	
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