

Agenda

Presented by
Mr. Scott Southall, RLA, LEED AP BD+C, ASLA, AICP
and Ms. Denise O'Meara, RLA, LEED AP, ASLA

Stormwater Basins and Underground Systems Day One

Tuesday, September 15, 2020 | 12:00 pm – 4:00 pm CDT (including a 30-min break)

Stormwater Management System Objectives and Design Considerations

Regulatory requirements associated with stormwater water quality and quantity

- Clean Water Act
- Federal, state and local requirements

Complying with stormwater regulations

Preparing a Stormwater Quality Management Plan (SWQMP)

- Stormwater goals
- Design considerations

Stormwater Basin/Underground System Design

Site consideration and assessment

Selection criteria

- Site considerations
- Watershed and topographical considerations
- Stormwater contents
- Community and environmental factors

Choosing Basin Types

Detention basins

- Stormwater routing, sediment handling, outlet
- Pre-treatment
- Maintenance and operations

Retention ponds

- Stormwater routing, sediment handling, soils and vegetation
- Pre-treatment
- Maintenance and operations

Forebay infiltration basins

- Stormwater routing, sediment and chemical handlings, soils and vegetation
- Pre-treatment
- Maintenance and operations

Stormwater Basins and Underground Systems Day Two

Tuesday, September 15, 2020 | 12:00 pm – 3:30 pm CDT (including a 30-min break)

Choosing an Underground Storage System

Detention/infiltration systems

- Type of storage – chambers, stone, custom design
- Pre-treatment
- Stormwater routing, infiltration, sizing, design criteria

Sustainable Best Practices in Stormwater Detention/Retention

Green infrastructure practices

Naturalizing detention/retention basins

Small detention areas vs. large detention area

Rain gardens

Underground storage and water reuse options

Stormwater Basins and Underground Systems

Monday, September 14, and Tuesday, September 15, 2020



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Learning Objectives

You'll be able to:

Comply with stormwater regulations and assist in the preparation of stormwater quality management plans.

Understand the selection criteria for stormwater basins and underground storage systems.

Choose detention basins, retention ponds and forebay infiltration basins for appropriate applications.

Select underground stormwater storage systems and discuss sizing and design criteria.

Incorporate sustainable stormwater best practices, including naturalized detention and water reuse.



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HalfMoon Education Online Learning Stormwater Basins and Underground Systems

Live, Interactive Webinar Series
Monday, September 14, and Tuesday, September 15, 2020



Understand stormwater management system objectives and design considerations

Identify specifics in choosing an underground storage system

Examine how to choose basin types

Learn about the best sustainable practices in stormwater retention/detention

Explore underground system design

Discuss how to apply knowledge of stormwater basins and underground systems

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 HSW CE Hours

6.5 AIA LU|HSW

Landscape Architects

6.5 HSW CE Hours

6.5 LA CES HSW PDHs

Floodplain Managers

6.5 ASFPM CECs



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Faculty

Scott Southall, RLA, LEED AP BD+C, ASLA, AICP *Principal at Earthcylce Design*

Mr. Southall is a principal with Earthcycle Design, LLC, a landscape architecture, urban planning and community resilience design firm, based in Lexington, Kentucky. He is a professional landscape architect in Kentucky and Ohio, a LEED accredited professional BD+C with the US Green Building Council (USGBC), and a certified planner with the American Planning Association. Mr. Southall has over 25 years of professional experience in planning, design and project management. He has applied his sustainability design experience on a multitude of projects ranging in magnitude and complexity including: urban and site design for institute and community facilities with an emphasis on education and public outreach pertaining to Green Infrastructure (GI), Low Impact Development (LID) and Sustainable Sites. Mr. Southall has presented on an assortment of sustainable practices and topics at statewide, regional and national conferences. In 2008, he shared the State of Kentucky Governor’s Award for Environmental Leadership. In 2009, he received an Environmental Commission Award from Lexington-Fayette Urban County Government for his environmental outreach and sustainable design efforts in Lexington. Mr. Southall graduated from the University of Kentucky with a bachelor of science in Landscape Architecture. He serves as one of 12 Sustainable Champions for American Planning Association (APA), serves on the steering committee of Empower Lexington (a climate action plan to reduce CO2), and serves as Treasurer for LFUCG’s Environmental

Webinar Information

Day One: Monday, September 14, 2020
12:00 pm – 4:00 pm CDT (including a 30-min break)

Day Two: Tuesday, September 15, 2020
12:00 pm – 3:30 pm CDT (including a 30-min break)

(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$299 for individual registration
\$199 for three or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

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Continuing Education Credit Information

This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hour to architects in all states. It offers 6.5 HSW continuing education hours to landscape architects in most states. HalfMoon Education is not seeking landscape architect approval in Florida, New Jersey, or North Carolina.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina (S-0130), and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §79-1.5(i)(2)). Courses approved by the AIA/CES qualify for Florida architects. Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU|HSW (Sponsor No. J885). Visit www.halfmoonseminars.org for complete AIA/CES information under this course listing. Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

The Association of State Floodplain Managers has approved this event for 6.5 CECs for Certified Floodplain Managers. Completion certificates will be awarded to participants who complete this event, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Commission. In March 2017, Mr. Southall completed a three-day Climate Reality Leadership Corps training to become a Climate Reality Leader and served as mentor in October, 2017. He is a past chapter president and trustee of Kentucky ASLA, past board of director member for Southeast Stormwater Association (SeSWA), and Market Leadership Advisory Board (MLAB) for USGBC Kentucky. Mr. Southall is a member of the American Society of Landscape Architects and the American Planning Association.

Denise O’Meara, RLA, LEED AP, ASLA *Landscape Architect at Earthcylce Design*

Ms. O’Meara has extensive project experience in a variety of sectors, including general master planning and strategic planning and parks and recreational design for municipal and state government entities, K-12 and post-secondary educational institutions. She has experience in hospital master planning and site design, nature-based learning and play environments and sustainable stormwater management. Ms. O’Meara brought the concept of sustainable building and site design through LEED accreditation early on to her firm. As a teacher and mentor, she has sought to give clients and upcoming designers a knowledge base and affinity for designing in a manner responsive to natural systems. Ms. O’Meara has a deep understanding that conservation of green space is a requirement for stormwater management and that is made possible through sustainable planning for livability within our population centers. She has written articles and guides about the processes of land protection, and has researched and put into practice those BMPs and conservation tools which benefit sustainability and resiliency.

Additional Learning

Construction Cost Estimating
- Tues., Sept. 1, 2020 | 8:30 am - 3:50 pm CDT

Deep Foundation Design and Construction
- Wed., Sept. 9, 2020 | 7:30 am - 3:30 pm CDT

Healthy HVAC Design Primer for Residential Building Professionals
- Wed., Sept. 9, 2020 | 8:30 am - 4:20 pm CDT

International Existing Building Code
- Wed., Sept. 9, 2020 | 11:00 am - 2:30 pm CDT
- Thurs., Sept. 10, 2020 | 11:00 am - 2:30 pm CDT

Restoration of Natural Habitats: Including Prairies, Wetlands and Forests
- Thurs., Sept. 10, 2020 | 8:30 am - 3:50 pm CDT

Basics of Structural Steel
- Fri., Sept. 11, 2020 | 9:00 am - 5:00 pm CDT

2018 International Residential Code: Structural Design
- Fri., Sept. 11, 2020 | 11:00 am - 3:30 pm CDT

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Registration

Stormwater Basins and Underground Systems

Live, Interactive Webinar - Monday, September 14 and Tuesday, September 15, 2020

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