Agenda

Presented by
Lucelene G. Almeida – Civil Engineer at Bryant Associates, Inc.

Selecting Stormwater Best Management Practices
- Site topography, hydrology and soils
- System sizing and design
- System performance
- Selection criteria

Reducing Site Disturbance and Increasing Natural Landscaping
- Benefits of natural landscaping
- Choosing native species for plantings
- Cost considerations and maintenance

Permeable Pavers
- Site criteria and product selection
- Preparation and installation
- Cost considerations and maintenance

Vegetated Roofs
- Benefits and life cycle cost
- Extensive roofs
- Intensive roofs
- Maintenance

Rain Barrels, Cisterns and Rain Gardens
- Stormwater collection
- Water storage
- Reuse
- Garden sizing and design
- Cost considerations

Filter Strips and Drainage Swales
- Benefits and design considerations
- Choosing appropriate vegetation
- Cost considerations and maintenance

Detention Basins and Ponds
- Benefits and site selection
- Sizing and design
- Choosing native vegetation
- Maintenance considerations

Stormwater Best Management Case Studies

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New England Stormwater Best Management Practices
Live, Interactive Webinar - Friday, February 19, 2021

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

Learning Objectives

You'll be able to:

Examine the purposes and benefits of practices that reduce site disturbance and preserve natural areas during development and construction.

Analyze site, size, use, topography, hydrology, and soils to determine appropriate stormwater best management practices.

Evaluate the benefits, applications, and cost considerations of rain barrels, cisterns, rain gardens, filter strips, and green roofs.

Discuss the specific benefits of detention basins and ponds, and learn about criteria for site selection, sizing, and design.

Review real-world stormwater best management case studies in New England.

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New England Stormwater Best Management Practices

Live, Interactive Webinar - Friday, February 19, 2021

Analyze criteria for selecting stormwater best management practices in New England

Learn how to reduce site disturbance and increase natural landscaping

Explore rain barrels, filter strips, and detention basins

Discuss stormwater best management practices such as permeable pavers and vegetated roofs

Review real-world case studies and discuss maintenance considerations

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CE Hours

AIA
Pending

Landscape Architects
6.5 HSW CE Hours

LA CES
6.5 HSW PDHs

Floodplain Managers
6.5 ASFPM CECs

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Faculty

Lucelene G. Almeida *Civil Engineer at Bryant Associates, Inc. – Lincoln, Rhode Island*

Ms. Almeida is a civil engineer at Bryant Associates, Inc., in Lincoln, Rhode Island, where she covers projects in several states. She joined Bryant in 2007 and has more than a decade of experience in roadway and site design. She specializes in drainage design, stormwater management, environmental permitting and construction implementation/inspection. Ms. Almeida holds a B.S. degree in International Civil and Environmental Engineering from the University of Rhode Island. She is a board member of ASCE Rhode Island Chapter and a past director of Finance for WTS-Rhode Island.

Ms. Almeida designs site-scale green infrastructure best management practices (BMPs) to slow and filter stormwater runoff for sensitive projects like riverwalks. The designs also incorporate low impact development (LID) measures to the maximum extent practicable. BMPs such as stormwater planters, rain gardens, green gutters, green alleys, and tree pit/tree trenches are evaluated as part of the design. She also designs for bigger scale projects such as highways, roads and roundabouts with BMPs such as grass swales, bypass structures, and detention/infiltration basins. Ms. Almeida focuses on stormwater master planning which has the ultimate goal of applying the state's stormwater management standards "project-wide" rather than on an individual basis.

In an effort to reduce flooding, Ms. Almeida develops sustainable approaches that rely on a combination of small-scale interventions with the aim of reducing the speed of the flow of converging runoff before it reaches discharge points and water bodies. A hydrologic and hydraulic analysis of the existing systems and proposed modifications are required to ensure that modifications will not cause flooding or other undesirable conditions for adjacent infrastructure or site uses. Ms. Almeida also looks into water quality practices that serve double duty by adding trees in or around walkway planters and other green infiltration-based practices to boost cooling and shading.

Ms. Almeida considers potential extreme weather events during project design and factors in climate change when determining locations of critical stormwater BMPs and drainage systems. Flexibility in the operations of the BMPs may include smaller units in series or with space for future growth that accommodates current and future needs. She evaluates, designs and builds (or rebuilds) physical infrastructure, such as catch basins and pipes to handle increased stormwater flows.

Additional Learning

Aerial Mapping: Technologies and Procedures
- Thurs., Jan. 28, 2021|8:30 am - 12:00 pm CST
- Fri., Jan. 29, 2021|8:30 am - 12:15 pm CST

Estimating the Cost of Sitework
- Fri., Jan. 29, 2021|7:30 am - 3:30 pm CST

Site Design
- Fri., Jan. 29, 2021|8:00 am - 4:00 pm CST

Effective Stormwater Infiltration
- Tues., Feb. 2, 2021|8:30 am - 4:45 pm CST

Stream Restoration for Design Professionals
- Thurs., Feb. 4, 2021|11:00 am - 2:30 pm CST
- Fri., Feb. 5, 2021|11:00 am - 2:30 pm CST

Erosion and Sediment Control
- Mon., Feb. 8, 2021|11:00 am - 1:45 pm CST
- Tues., Feb. 9, 2021|11:00 am - 1:45 pm CST

Introduction to HEC-RAS Modeling
- Thurs., Feb. 11, 2021|8:30 am - 5:00 pm CST

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

Webinar Information

Log into Webinar
8:00 - 8:30 am EST

Break
12:30 - 1:00 pm EST

Morning Session
8:30 am - 12:30 pm EST

Afternoon Session
1:00 - 4:00 pm EST

Tuition

$289 for individual registration
$199 for three or more registrants from the same company at the same time.
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- Visit us online at www.halfmoonseminars.org
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Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a $39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

Continuing Education Credit Information

This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states. It offers 6.5 HSW continuing education landscape architects in New England states, but not in New Jersey.

HalfMoon Education is an approved continuing education sponsor for engineers in Maryland and New Jersey (Approval No. 24GP00000700). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2), §79-1.5(i)(2)). Courses approved by the AIA/CES qualify for New Jersey architects. Other states do not preapprove continuing education providers or courses.

This course has been approved by the American Institute of Architects Continuing Education System 6.5 HSW CE Hours (Sponsor No. J885) and the Landscape Architect Continuing Education System for 6.5 HSW PDHs. Only full participation is reportable to the AIA CES and 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).

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Registration

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How to Register

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Complete the entire form.
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Registrant Information

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( ) **I am not attending.** Please send me the webinar recording:
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