

Agenda

Understanding Infiltration Stormwater behavior before regulatory requirements Benefits of infiltrating stormwater - Reduced stormwater volume and peak flow - Improved stormwater quality	<i>J. O'Rourke</i>
Soil and Water Science Types of soils Soil characteristics Impact of water on soils Movement of water through soils	<i>J. O'Rourke</i>
Infiltrating Stormwater Defining infiltration Measuring infiltration Creating and using infiltration surfaces	<i>J. O'Rourke</i>
Innovative Subsurface Infiltration Storage Solutions Evolution of subsurface storage systems Modular box high void subsurface storage solutions Selecting appropriate geotextiles and subgrade prep	<i>R. Woodman</i>
Innovative Pretreatment Solutions for Protection and Sustainability of Infiltration Systems Part 1 Mechanical screening and filters Permeable surfaces (formal and informal)	<i>R. Woodman</i>
Innovative Pretreatment Solutions for Protection and Sustainability of Infiltration Systems Part 2 High performance modular biofiltration systems/green infrastructure	<i>R. Woodman</i>
Infiltration Case Studies from Maine to Maryland	<i>R. Woodman</i>

Effective Stormwater Infiltration Nanuet, NY - Friday, June 8, 2018



Halfmoon Education Inc.
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Altoona, WI 54720-0278

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Learning Objectives

You'll be able to:

- Explore** the benefits of infiltrating storm water.
- Understand** the effect of soil types on infiltration and discuss the impact of water on soils.
- Learn** about creating and using infiltration surfaces.
- Examine** the evolution of subsurface storage systems.
- Understand** mechanical screening, filters, and permeable surfaces.
- Review** infiltration case studies from Maine to Maryland.



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- Examine** New York State stormwater management requirements

Learn about soil and water science

Measure stormwater infiltration
- Explore** innovative subsurface infiltration storage solutions

Discuss pretreatment solutions for protection and sustainability of infiltration systems

Continuing Education Credits

- Architects & Landscape Architects**
6.5 HSW Continuing Ed. Hours
6.5 AIA HSW Learning Units
6.5 LA/CES HSW PDHs

Professional Engineers
6.5 Continuing Ed. Hours
- Floodplain Managers**
6.5 ASFPM CECs

Contractors
Non-Credit Continuing Ed.



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Faculty

John O’Rourke *Lanc & Tully Engineering and Surveying, P.C., in NY*

Mr. O’Rourke is a professional engineer in the state of New York with over 30 years of water systems experience. He is responsible for preliminary and final design of various municipal and private projects, specifically involving environmental regulations and their impacts such as water and waste water treatment design, drainage analyses, stormwater management systems, wetland disturbance mitigation, underground bulk storage, mining permits and associated plans, Phase 1 Environmental Assessments, landfill reclamation and injection well permits. Mr. O’Rourke coordinates with Federal, State and Local authorities to procure permits for the above noted activities. He is responsible for coordinating the preliminary and final design, technical specifications and contract documents for municipal public bid projects, including wastewater collection systems, sewer pumping stations, water distribution and water booster stations for the City of Beacon, the Towns of Hamptonburgh and Newburgh and the Villages of Monroe, Montgomery and Walden. Mr. O’Rourke completed his B.S. degree in Geological Science from the State University of New York Oneonta, and he did his graduate coursework at the State University of New York New Paltz.

Seminar Information

Hilton Garden Inn Nanuet
270 West Route 59
Nanuet, NY 10954
(845) 623-0600

Tuition
\$279 for individual registration
\$259 for three or more simultaneous registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual.

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. You may also send another person to take your place.

Rob Woodman *Senior Stormwater Engineer, ACF, in ME*

Mr. Woodman serves ACF as senior stormwater engineer. His skill set bolsters ACF’s engineering technical support service allowing ACF to better serve their clients and customers with value-added, project-specific, engineering technical support. Mr. Woodman earned a BS degree in Civil Engineering in 2004 from the University of Wollongong in Wollongong, Australia. His schooling provided the necessary knowledge for Mr. Woodman to launch his career into site civil design and the ever trending green infrastructure industry. He spent the first 10 years as a design and project engineer for a private engineering consulting firm, gaining experience and expanding his knowledge of the industry on a wide variety of civil and stormwater engineering design projects for private and public sector clients throughout New England. Mr. Woodman is a registered professional engineer in Maine and Pennsylvania, a certified professional in erosion and sedimentation control, a Maine DEP-certified stormwater inspector, a master gardener, and entrepreneur.

Continuing Education Credit Information

This seminar is open to the public and offers up to 6.5 HSW continuing education hours to architects, landscape architects, and professional engineers in most states, including New York and New Jersey.

HalfMoon Education is deemed a New York-approved continuing education provider for architects and landscape architects via its affiliation with the American Institute of Architects. HalfMoon Education is an approved continuing education provider for New York engineers (NYSED Sponsor No. 35) and New Jersey professional engineers (Approval No. 24GP00000700).

This event is approved by the American Institute of Architects for 6.5 HSW Learning Units (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. Courses approved by the AIA qualify for New Jersey architects.

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

This event offers a continuing education opportunity to construction contractors, but it has not been approved by any state with a continuing education requirement for 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	Registrant Information
Online: www.halfmoonseminars.org	Name: _____
	Company/Firm: _____
	Address: _____
	City: _____ State: _____ Zip _____
Phone: 715-835-5900	Occupation: _____
	Email: _____
Fax: 715-835-6066	Phone: _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Additional Registrants:
Complete the entire form. Attach duplicates if necessary.	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 - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

Checks: Make payable to HalfMoon Education Inc.
Credit Card: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____
Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
Billing Address: _____
City: _____ State: _____ Zip: _____
Signature: _____
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