

# Agenda

**Introduction -** *S. Souza*

**Managing Stormwater Runoff in New Jersey**

NJDEP's increased emphasis of the role of green infrastructure in the state-wide management of stormwater problems

**Recent Advancements in** *K. Perry*

**New Jersey Stormwater Regulations**

Requirements and procedures  
Available tools to promote green infrastructure  
Stormwater management solutions

**Stream Daylighting** *L. Craig*

A technique for stormwater management, flood management and ecological restoration

**Bioretention/Green Infrastructure** *S. Souza*

**Stormwater Management**

From small lot to regional applications and examples

**Data Collection Needs for the Proper Design,** *C. Emerson*

**Construction and Operation of Infiltration**

**Best Management Practices (BMPs)**

Factors that control the effectiveness, performance and longevity of infiltration BMPs

**Preparing a Stormwater** *B. Friedlich*

**Pollution Prevention Plan (SWPPP)**

Documentation that identifies the potential sources of stormwater pollution  
Putting a SWPPP into action

**The Proper Maintenance** *S. Souza*

**of Green Infrastructure BMPs**

Inspection and monitoring, specialized maintenance needs, recordkeeping and reporting

**Can't Attend? Order the Webinar as a Self-Study Package!**

Recordings of this webinar are available for purchase. 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.

## New Jersey Stormwater Management 2021

Live, Interactive Webinar - Tues., January 19, 2021

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



## Learning Objectives

**You'll be able to:**

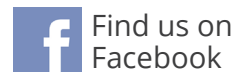
**Discuss** the New Jersey Department of Environmental Protection's increased emphasis on the role of green infrastructure in the statewide management of stormwater problems.

**Use** stream daylighting for stormwater management, flood management and ecological restoration.

**Implement** bioretention/green infrastructure stormwater management practices.

**Identify** factors that control the effectiveness, performance and longevity of stormwater best management practices.

**Work** on developing stormwater pollution prevention plans, and get tips on putting SWPPP into action.



## HalfMoon Education Online Learning

# New Jersey Stormwater Management 2021

Live, Interactive Webinar - Tuesday, January 19, 2021



**Examine** the process of managing stormwater runoff in New Jersey

**Learn** about recent advancements in New Jersey stormwater regulations

**Discuss** stream daylighting and its many benefits

**Explore** factors that control the effectiveness, performance and longevity of infiltration of BMPs

**Analyze** the proper maintenance of green infrastructure BMPs

**Get tips on** preparing stormwater pollution prevention plans

### Continuing Education Credits

**Architects**  
7.0 HSW Continuing Ed. Hours  
7.0 AIA LU|HSW

**Landscape Architects**  
New Jersey pending  
7.0 LA CES HSW PDHs

**Floodplain Managers**  
7.0 ASFPM CECs

**International Code Council**  
.7 CEUs (Sitework)



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# Faculty

**Dr. Stephen J. Souza** *Owner of Clean Waters Consulting, LLC, New Jersey*  
Dr. Souza is the founding partner of Princeton Hydro, LLC. From its inception in 1998 through 2018, he served as president of Princeton Hydro, retiring from the company in 2019. Over the past 35 years he has dedicated his career to the management and restoration of aquatic ecosystems, in particular lakes, ponds and reservoirs. Dr. Souza received his B.S. degree in 1974 from the University of Massachusetts, Dartmouth, his M.S. in 1976 from Rutgers University, and his Ph.D. in 1981 from the University of Connecticut. He has served over the past 25 years as an instructor and course coordinator for the Rutgers NJAES Office of Continuing Professional Education, developing and implementing multiple short courses focused on the management and restoration of aquatic ecosystems. Dr. Souza is also an adjunct professor at Temple University (Ambler Campus), teaching a graduate studies course in the Department of Landscape and Horticulture (Tyler School of Art and Agriculture). He also conducts a professional continuing education course focusing on green infrastructure stormwater management for CPES through Montclair State University.

**Kandyce Perry** *Director of Stormwater New Jersey Future*  
Ms. Perry directs New Jersey Future's programs to improve stormwater management, including the Mainstreaming Green Infrastructure program, aimed at moving green stormwater infrastructure practices into the mainstream and projects to cultivate the use of stormwater utilities. Prior to joining New Jersey Future, she worked on brownfield redevelopment at the City of Camden Redevelopment Agency. Ms. Perry holds a master's degree in Environmental Studies with a concentration in Environmental Policy from the University of Pennsylvania and a B.S. degree in Environmental Science from Spelman College. She is a graduate of the Environmental Leadership Program and currently participates in the DiverseForce on Boards program at the University of Pennsylvania.

**Dr. Clay H. Emerson, PHD, PE, CFM** *Princeton Hydro LLC, New Jersey*  
Dr. Emerson's areas of expertise include hydrologic and hydraulic analysis, stormwater management and infiltration, non-point source pollution, watershed modeling, groundwater hydrology/modeling, and water quality and quantity monitoring at both the individual site and

watershed scales. His academic and professional experience includes a substantial amount of critical overlap between the engineering and environmental science/ecology disciplines which is central to many of the innovative projects at Princeton Hydro. He is a Practice Area Lead at Princeton Hydro and has specific expertise in the field of stormwater infiltration and has conducted extensive research on the performance of stormwater systems. Dr. Emerson routinely gives presentations and continuing education seminars on topics related to stormwater management and is also an adjunct professor.

**Dr. Laura Craig, PHD** *Princeton Hydro LLC, New Jersey*  
Dr. Laura "LC" Craig is an aquatic ecologist and restoration practitioner with more than ten years of experience working in river conservation both as the chief scientist at a national environmental nonprofit and as a restoration practitioner. She is a big picture thinker with extensive experience in science communication, strategic planning, metrics and evaluation, project and budget management, policy, fundraising, and public engagement. Her specific areas of scientific expertise are aquatic ecology, river restoration theory and practice (especially dam removal), nutrient dynamics, and climate adaptation. Dr. Craig also has a keen interest in improving how we manage existing and emerging threats to rivers. She earned a B.S. degree in Biology from Susquehanna University and a PhD degree in Aquatic Ecology from University of Maryland-College Park.

**Brian Friedlich** *Principle Engineer- Kleinfelder, Princeton, New Jersey*  
Mr. Friedlich has 15 years of private consulting experience in civil and environmental engineering disciplines. His expertise includes stormwater management, water resources, wastewater treatment and environmental permitting. Mr. Friedlich has extensive experience with the planning and design of stormwater management facilities with a focus on green infrastructure and natural systems. He earned a bachelor's degree in Environmental Engineering from Tufts University and a master's degree in Environmental Engineering from MIT.

# Webinar Information

**Tuesday, January 19, 2021**  
8:30 am - 4:15 pm EST (including 40-min. of breaks)  
*(please log into the webinar 15 - 30 minutes before start time)*

**Tuition**  
**\$289** for individual registration  
**\$199** for three or more registrants from the same company at the same time.  
**Included with your registration:** PDF seminar manual.

**How to Register**  
• Visit us online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org)  
• Mail-in or fax the attached form to 715-835-6066  
• Call customer service at 715-835-5900

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit [www.gotowebinar.com](http://www.gotowebinar.com).

**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 is open to the public and offers 7.0 CPC credits/PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in New Jersey.

HalfMoon Education is an approved continuing education provider for New Jersey engineers (Approval No. 24GP00000700).

This webinar has been approved by the American Institute of Architects Continuing Education System for 7.0 HSW Learning Units (Sponsor No. J885). Only full attendance is reportable to the AIA/CES. Courses approved by the AIA/CES qualify for New Jersey architects.

HalfMoon Education has applied to the New Jersey State Board of Architects for approval of this course for landscape architects, which is pending. The Landscape Architect Continuing Education System has approved this course for 7.0 HSW PDHs.

The Association of State Floodplain Managers has approved this webinar for 7.0 CECs for certified floodplain managers.

The International Code Council has approved this event for .7 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

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).

# Additional Learning

**International Residential Code 2018**  
- Fri., Dec 18, 2020 | 8:30 am - 4:45 pm CST

**Pavement Design**  
- Fri., Dec 18, 2020 | 9:00 am - 4:30 pm CST

**Preventing and Addressing Construction Defects and Failures**  
- Mon, Dec 21, 2020 | 8:30 am - 5:00 pm CST

**Special Inspections under the International Building Code Chapter 17**  
- Mon, Dec 28, 2020 | 9:00 am - 4:30 pm CST

**Deep Foundations and Excavations**  
- Wed, Dec 30, 2020 | 9:00 am - 5:00 pm CST

For more information and other online learning opportunities visit:  
**[www.halfmoonseminars.org](http://www.halfmoonseminars.org)**

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# Registration

**New Jersey Stormwater Management 2021**  
Live, Interactive Webinar - Tuesday, January 19, 2021

| How to Register                                                                          | <b>Registrant Information</b><br>Name: _____<br>Company/Firm: _____<br>Address: _____<br>City: _____ State: _____ Zip _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><b>Additional Registrants:</b><br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br>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.<br>( )  I need special accommodations. Please contact me. |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Online:</b><br><a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Phone:</b><br>715-835-5900                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Fax:</b><br>715-835-6066                                                              | <b>Code:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Complete the entire form.</b><br>Attach duplicates if necessary.                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tuition</b><br>( ) <b>I will be attending the live webinar.</b> Single Registrant - <b>\$289.00</b> . Three or more registrants from the same company registering at the same time - <b>\$199.00</b> each.<br>( ) <b>I am not attending.</b> Please send me the webinar recording:<br><input type="checkbox"/> Streamable MP4 Video/PDF Manual for <b>\$299.00</b> .<br><input type="checkbox"/> USB Video/PDF Manual for <b>\$299.00</b> . |
| <b>Checks:</b> Make payable to HalfMoon Education Inc.<br><b>Credit Card:</b> <i>Mastercard, Visa, American Express, or Discover</i><br>Credit Card Number: _____<br>Expiration Date: _____ CVV2 Code: _____<br>Cardholder Name: _____<br>Billing Address: _____<br>City: _____ State: _____ Zip: _____<br>Signature: _____<br>Email: _____                                                                                                    |