

Agenda

Presented by Brian J. Kwiatkowski

The Behavior of Surface Water

- Flow measurement
- Historical records
- H&H modeling methods
- Understanding human impacts
- Causes of river degradation

Introduction to Geomorphology

- Fluvial geomorphology 101
- The 4 dimensions (section, planform, profile, time)
- Channel evolution
- Stream hydraulics
- Stream ecology

Tools for Assessment and Restoration

- Rapid watershed assessment methods
- Prescribed treatments
- In-stream structures (profile)
- Streambank stabilization (section)
- Planform reconstruction (planform)
- Buffer revegetation
- Watershed management
- Project examples

Design Considerations

- Plans and specifications
- Stakeout and structure tables
- Submittals and deliverables
- Project stop points
- Site preparation
- Erosion and sediment control
- Managing invasive vegetation
- Successful riparian restoration

Lessons Learned: Construction Considerations

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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.

Stream Restoration for Design Professionals

Live, Interactive Webinar - Wednesday, May 26, 2021

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PO Box 278
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Learning Objectives

You'll be able to:

Understand human impacts on rivers and discuss causes of river degradation.

Explore the behavior of surface water, and examine stream hydraulics and stream ecology.

Use tools for assessing and restoring waterways, including in-stream structures, streambank stabilization and planform reconstruction.

Address design considerations, plan development, and site preparation.

Review lessons learned from completed stream restoration projects.



HalfMoon Education Online Learning

Stream Restoration for Design Professionals

Live, Interactive Webinar - Wednesday, May 26, 2021



Analyze the behavior of surface water

Understand the fundamentals of geomorphology

Examine tools for assessment and restoration

Learn design tips for dealing with erosion, sediment control and invasive vegetation

Discuss lessons learned from stream restoration case studies

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CE Hours

AIA
6.5 LU | HSW

Landscape Architects
6.5 HSW CE Hours

LA CES
6.5 HSW PDHs

Floodplain Managers
6.5 ASFPD CECs



Faculty

Brian J. Kwiatkowski *Applied Ecological Services*
Mr. Kwiatkowski is a certified professional ecologist (CE) and fluvial geomorphologist, with nearly 20 years of experience in the fields of watershed planning, green infrastructure design, and ecosystem restoration. Mr. Kwiatkowski has extensive training in the analysis and design of riverine systems, including Newbury Hydraulics and Rosgen Level IV Natural Channel Design certification. He is responsible for developing watershed management plans, river and stream restoration projects, and sustainable stormwater systems. He has collected and analyzed data on more than 400 miles of open channel throughout North America, including geomorphic and vegetative process indicators, habitat evaluation, and sediment transport data. Mr. Kwiatkowski has also contributed to stormwater best management practice (BMP) manuals addressing the design of open channels, design of storm drainage facilities, green infrastructure planning, and water quality improvement. He has provided design, inspection and construction management services for numerous projects throughout the United States.

Webinar Information

Log into Webinar 8:30 - 9:00 am CDT	Break 12:30 - 1:00 pm CDT
Morning Session 9:00 am - 12:30 pm CDT	Afternoon Session 1:00 - 4:30 pm CDT

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
- 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.

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.

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Additional Learning

- 2021 International Residential Code: Residential Non-Structural Design**
- Fri, April 23, 2020 | 11:00 am - 3:30 pm CDT
- Deep Dive into Water Infiltration in Soil**
- Fri, April 23, 2021 | 11:00 am - 1:00 pm CDT
- New Developments in Parking Facilities**
- Mon, April 26, 2021 | 9:30 am - 4:30 pm CDT
- Passive House: Planning and Design**
- Mon, April 26, 2021 | 8:30 am - 4:00 pm CDT
- Stormwater Basins and Underground Systems**
- Mon, April 26, 2021 | 8:30 am - 4:30 pm CDT
- Deep Dive into Landscaping for Climate Change**
- Mon, April 26, 2021 | 9:00 am - 12:15 pm CDT
- Structural Forensic Engineering**
- Tues, April 27, 2021 | 7:30 am - 4:00 pm CDT
- How To Set Goals for and Select Erosion and Sediment Control Practices**
- Tues, April 27, 2021 | 11:00 am - 12:00 pm CDT
- Advanced HEC-RAS Modeling**
- Wed, April 28, 2021 | 10:00 am - 1:15 pm CDT
- Thurs, April 29, 2021 | 10:00 am - 1:15 pm CDT
- Construction Cost Estimating**
- Wed, April 28, 2021 | 8:30 am - 4:30 pm CDT
- Developing Infrastructure for Electric Vehicles**
- Thurs, April 29, 2021 | 9:30 am - 4:30 pm CDT
- Foundation Damage and Repair: Science, Materials and Techniques**
- Thurs, April 29, 2021 | 9:30 am - 5:00 pm CDT
- Structural Dynamics for Seismic Design**
- Fri, April 30, 2021 | 8:30 am - 3:30 pm CDT
- For more information and other online learning opportunities visit:
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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 hours to landscape architects in all states, except Florida, New Jersey, and 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), and North Carolina (S-0130). 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), §69.6(i)(2), and §79-1.5(i)(2)). Courses approved by the AIA/CES qualify for Florida and 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 for 6.5 LU | HSW (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).

Registration

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How to Register		Registrant Information	
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