

Credit Information

Effective Stormwater Infiltration

This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects in all states. It offers 7.0 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, 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 architects. Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has HalfMoon Education as a continuing education sponsor (No. J885) and the course is approved for 7.0 LU|HSW. Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full participation is reportable to the LA CES.

The Association of State Floodplain Managers has approved this event for 7.0 CECs for Certified Floodplain Managers. ASFPM approval qualifies this course for Texas floodplain managers.

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

Erosion and Sediment Control

This webinar offers 5.0 PDHs to professional engineers and 5.0 HSW continuing education hours to architects in all states. It offers 5.0 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, 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 architects. Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 5.0 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 5.0 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved this event for .5 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

The Association of State Floodplain Managers has approved this event for 5.0 CECs for Certified Floodplain Managers. ASFPM approval qualifies this course for Texas floodplain managers.

Completion certificates will be awarded to participants who complete these events, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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February Stormwater Webinars

Effective Stormwater Infiltration

- Tuesday, February 2, 2021 | 10:00 am - 4:50 pm CST

Erosion and Sediment Control

- Monday, February 8, 2021 | 11:00 am - 1:45 pm CST

- Tuesday, February 9, 2021 | 11:00 am - 1:45 pm CST

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Live, Interactive Stormwater Webinars For Architects, Engineers and more!



Effective Stormwater Infiltration

Tuesday, February 2, 2021 | 8:30 am - 4:45 pm CST

Credits:
Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours AIA: 7.0 LU|HSW
Landscape Architects: 7.0 HSW CE Hours LA CES: 7.0 HSW PDHs
Floodplain Managers: 7.0 ASFPM CECs
International Code Council: .7 CEUs (Sitework)

Erosion and Sediment Control

Monday, February 8, 2021 | 11:00 am - 1:45 pm CST

Tuesday, February 9, 2021 | 11:00 am - 1:45 pm CST

Credits:
Professional Engineers: 5.0 PDHs Architects: 5.0 HSW CE Hours AIA: 5.0 LU|HSW
Landscape Architects: 5.0 HSW CE Hours LA CES: 5.0 HSW PDHs
Floodplain Managers: 5.0 ASFPM CECs
International Code Council: .5 CEUs (Sitework)

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Effective Stormwater Infiltration

Tuesday, February 2, 2021 | 8:30 am - 4:45 pm CST (incl. 30-min. of break)

Credits:

Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours AIA: 7.0 LU | HSW
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Floodplain Managers: 7.0 ASFPM CECs International Code Council: .7 CEUs (Sitework)

Introduction to Stormwater Management

Development, environment and water quality
Conventional stormwater management
NPDES, State and municipal stormwater management requirements
Benefits of stormwater infiltration

D. Carpenter

Hydrologic Principals

Water cycle and site hydrology
Soil types and characteristics
Defining hydrologic principles for infiltration based stormwater design
Measuring infiltration
Improving infiltration

D. Carpenter

Infiltration with Low Impact

Development Techniques
Permeable surfaces
Vegetative management solutions (e.g., biofilters, bioretention swales)
Soil amendments
Subsurface retention
Continuous monitoring and automated controls
Next generation/innovative technology

S. Gorneau, R. Woodman

Protecting Infiltration System during and after Construction

Erosion and sedimentation control
Pretreatment technologies and innovative solutions

R. Woodman

Stormwater Infiltration Case Studies

Design and installation examples
Success and lessons learned

S. Gorneau, R. Woodman, D. Carpenter

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Tuition: \$289 per registrant, \$199 per registrant for three or more

Donald D. Carpenter *PhD, PE, LEED AP, Vice President of Drummond Carpenter, PLLC, and a Professor of Practice at Lawrence Technological University in Southfield MI*

Dr. Carpenter is an accredited green design professional (LEED AP) and practicing professional engineer (PE) whose expertise includes green stormwater infrastructure (GSI), stormwater management, hydrologic modeling and design, and field data collection. He has 25 years' experience working with diverse clients across the United States as a researcher and practicing professional. As a National Charrette Institute certified community engagement specialist, he has extensive experience in community engagement and planning. Dr. Carpenter's efforts have facilitated community implementation of stormwater master plans and the development of community socio-economic sustainability plans. As founding director of the Great Lakes Stormwater Management Institute at Lawrence Technological University, he conducts research on innovative infiltration-based stormwater practices and advises communities on how to implement GSI. Finally, he is an active board member on several educational and non-profit boards and serves on the Board of External Reviewers to advise State of Washington Department of Ecology on stormwater treatment technologies.

Scott Gorneau

National Manager of Stormwater Solutions, ACF - Convergent Water Technologies Alliance
As national manager of stormwater solutions for the ACF-CWT Alliance, Mr. Gorneau is responsible for offering innovative green infrastructure/low impact stormwater solutions that enable new applications and raise the bar on performance, cost effectiveness and verification. Mr. Gorneau previously served as regional vice president for FABCO Industries where he was responsible for engineering design, specification and installation of manufactured stormwater management systems. He earned a BS degree in Biological Systems Engineering and an MS degree in Agricultural and Biological Systems Engineering from the University of Nebraska-Lincoln which provided the necessary knowledge for him to launch his career into the technical sales and specified engineered products industry. He spent the subsequent time since graduation gaining experience and expanding his knowledge of the industry on a wide variety of civil and environmental engineering design projects for private and public sector clients. Mr. Gorneau is a registered professional engineer in Maine and New Hampshire, and he is a Maine certified stormwater inspector. He has been a member of the American Society of Civil Engineers (ASCE) since 1999, serving as section president in 2014.

Rob Woodman *PE Regional Manager for New England and New York, ACF*

Mr. Woodman graduated in Civil Engineering from the University of Wollongong, Australia. He spent the first 10 years as 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. For the past five years, Mr. Woodman has served ACF as the senior engineer and was recently promoted to regional manager for New England and New York. He works with engineers and landscape architects from Maine to Maryland solving stormwater related challenges with a series of innovative solutions. He is a registered professional engineer in Maine and Pennsylvania, a certified professional in Erosion and Sedimentation Control, Maine DEP Certified Stormwater Inspector, Master Gardener, and entrepreneur. Mr. Woodman lives in Gorham, Maine with his wife, Jessi and four children under 12. He has been intimately involved with the development of custom solutions for both the Philadelphia Water Department and New York City DEP green streets programs.

Erosion and Sediment Control

Monday, February 8 and Tuesday, February 9, 2021

Tuition: \$249 per registrant, \$199 per registrant for three or more

Credits:

Professional Engineers: 5.0 PDHs Architects: 5.0 HSW CE Hours AIA: 5.0 LU | HSW
Landscape Architects: 5.0 HSW CE Hours LA CES: 5.0 HSW PDHs
Floodplain Managers: 5.0 ASFPM CECs International Code Council: .5 CEUs (Sitework)

Day One: Monday, February 8, 2021 | 11:00 am - 1:45 pm CST (incl. a 15-min. break)

Erosion and Sediment Control Requirements and Goals

Environmental Protection Agency regulations
Practices that minimize site disturbance
Preservation of native vegetation
Selecting appropriate practices for disturbed areas on the construction site

Erosion and Sediment Control Best Practices Part I

Temporary and permanent seeding, sodding and mulching
Use of geotextiles Chemical soil stabilization
Establishment of buffer zones Stream bank erosion protection
Bank stabilization and repair

Day Two: Tuesday, February 9, 2021 | 11:00 am - 1:45 pm CST (incl. a 15-min. break)

Erosion and Sediment Control Best Practices Part II

Earthen dikes Drainage swales
Pipe drains Subsurface drains
Silt fences Berms
Check dams

Sediment Traps and Sediment Basins

Calculating flow rates and capacity
Designing and sizing Maintenance plans

Presented by

Brad Flack *President & CEO of Integrity Stormwater*

Mr. Flack has earned his designation, among select thousands in the world, as a certified professional in erosion and sediment control (CPESC) as well as his designation as a certified erosion, sediment and stormwater inspector (CESSWI) and a course instructor, lending his experience and training to his customers for all of their stormwater needs. Furthermore he is among the select few who are Qualified Compliance Inspectors of Stormwater (QCIS). He has served as the president and the administrative vice president of the South Central Chapter of the International Erosion Control Association (IECA). Mr. Flack was the Region 6 president for EnviroCert International and has served as the Region 7 representative for CPESC, Inc. He was technical vice-chair for the CPESC Council, and he is on the Education Committee: Stormwater Management Track for the International Erosion Control Association Region 1 which encompasses North America, South America and Europe, where he has served as chair. Mr. Flack was awarded Young Professional of the Year for 2014 by the IECA Region 1 and is also an IECA mentor. He also served as a member of the Policies and Procedures Committee and the Certified Professional in Industrial Stormwater Management Committee for EnviroCert International. He is an EnviroMentor for the Texas Commission on Environmental Quality (TCEQ) as well as a member of the TCEQ Houston Area Small Business Advisory Council. Mr. Flack has been involved with stormwater management since 2004, when he learned about permitting, turf establishment, erosion control and detention pond maintenance. He has since continued to learn and develop his stormwater knowledge and skills and is now a speaker at many conferences sharing his expertise across the US and internationally.

To register, view detailed presenter biographies, and see other learning opportunities, please visit:

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