

Agenda

*Presented by Stephen R. Zwilling and
Matt Welch, CPESC, CESSWI*

Soils

Understanding the importance of soil testing
and gathering samples the right way
The importance of pH and organic matter and how
it is critical for sustainable vegetation
Biotic soil media (BSM) technologies and how they can
improve soils as an option to traditional compost

Causes of Erosion and Sediment Production

Types of erosion
Variables impacting erosion
Types of sediment and sedimentation
Damage caused by erosion and sedimentation

Goals for and Selection of Erosion and Sediment Control Practices

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

Calculations for Determining Soil Loss and Channel Stabilization

Review revised universal soil loss equation (RUSLE)
Review Manning's calculation
Design software Profileps3.com
Product selection using software

Non-Structural Erosion and Sediment Control Best Practices

Temporary and permanent seeding, sodding and mulching
Mixing and applying hydraulic mulches
Use of blankets and turf reinforcement mats in channel applications

Erosion and Sediment Control
Lexington, KY - Tuesday, January 29, 2019

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Learning Objectives

You'll be able to:

Understand the importance of organic matter in soils.

Explore the causes of erosion and types of damage caused by erosion and sedimentation.

Understand Manning's calculation and the revised universal soil loss equation (RUSLE).

Select appropriate erosion control practices for disturbed areas on the construction site.

Evaluate practices that minimize site disturbance.

Review non-structural erosion and sediment control best practices, including seeding, sodding and mulching.



Erosion and Sediment Control

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Identify goals for erosion and sediment control practices

Understand the importance of soil testing

Explore variables impacting erosion

Learn calculations for determining soil loss and channel stabilization

Discuss preservation of native vegetation

Examine non-structural erosion and sediment control practices

Continuing Education Credits

Professional Engineers

7.0 PDHs

Architects

7.0 Contact Hours (HSW)

7.0 AIA HSW Learning Units

Landscape Architects

7.0 Contact Hours (HSW)

7.0 LA/CES HSW PDHs

Floodplain Managers

7.0 CECs

Contractors

Non-Credit CE Hours



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Stephen R. Zwilling
Mr. Zwilling is the Eastern U.S. market development manager for Profile Products, LLC, of Buffalo Grove, Illinois. He has 23 years of experience in erosion and sediment control and turfgrass management. Mr. Zwilling has written several technical articles in industry trade publications on hydraulically applied erosion control systems and applications. He was a prior owner/partner of the Conwed Fibers Corporation.

Mr. Zwilling holds a bachelor of science degree in Marketing Management from Pepperdine University. He is a past board member of the Erosion Control Technology Council (ECTC) and a member of the International Erosion Control Association (IECA), and he is on the Board of Directors of the Mid Atlantic IECA. Mr. Zwilling has been a volunteer instructor at several industry events including the IECA Muddy Water Blues and NCSU Erosion Control Field Days, and at several water resource workshops in the eastern United States and Canada.

Matt Welch, CPESC, CESSWI
Mr. Welch is the technical & business development manager for Profile Products, LLC, of Buffalo Grove, Illinois. Mr. Welch heads up Profile Products Free Soil Testing program and online

design software – Profile Soil Solutions Software (www.ProfilePS3.com). He works closely with specifiers to ensure that all erosion and sediment control plans, involving Profile’s line of products, will have a high rate of success. Mr. Welch holds a bachelor’s of science degree in Conservation and Environmental Sciences from the University of Wisconsin – Milwaukee, with an emphasis on land resources and soil science. During and after college, he worked at an engineering and consulting firm out of Green Bay, WI. The firm he worked with was heavily involved in projects with erosion control and reclamation of land, many of which were on linear transmission line projects. This experience ultimately led to a smooth transition into the technical department at Profile Products. Mr. Welch is also a member of the International Erosion Control Association (IECA).

Here’s what past attendees had to say about the program and speakers:

“Great.” – *Mechanical Engineer (Retired)*

“Very well done.” – *Engineer*

“Great booklet and materials. Very knowledgeable presenters.” – *Landscape Architect*

Seminar Information

Courtyard by Marriott Keenland/Airport
3100 Wall Street
Lexington, KY 40513
(859) 224-0460

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

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

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

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 or the self-study package. You may also send another person to take your place.

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.

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs to professional engineers and 7.0 HSW contact/continuing education hours to architects and landscape architects in most states, including Kentucky. Educators and courses are not subject to preapproval in Kentucky.

This event is approved by the American Institute of Architects Continuing Education System for 7.0 HSW Learning Units (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Courses approved by the LA/CES are deemed approved for Kentucky landscape architects. Only full attendance can be reported to the AIA/CES and LA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects.

The Association of Floodplain Managers has approved this course for 7.0 CECs.

This seminar offers a non-credit continuing education opportunity to construction contractors. It is not approved by any state licensing entity for contractor continuing education credit.

Additional Learning

Webinar Series

Stormwater Management Systems

- **Stormwater Infrastructure Practices**
Weds., Dec. 19, 2018, 11:00 AM - 1:00 PM CST
- **Infiltration Management Techniques**
Thurs., Dec. 20, 2018, 11:00 AM - 1:00 PM CST

NFPA 70E Series

- **NFPA 70E, Part I**
Weds., Dec. 26, 2018, 11:00 AM - 3:30 PM CST
- **NFPA 70E, Part II**
Thurs., Dec. 27, 2018, 11:00 AM - 3:30 PM CST

Seismic Design and Construction

- **Seismology and Building Codes**
Thurs., Dec. 27, 2018, 11:00 AM - 3:30 PM CST
- **Seismic Design of Building Structures**
Fri., Dec. 28, 2018, 11:00 AM - 3:30 PM CST

For more information visit:
www.halfmoonseminars.org/webinars/

Can’t Attend? Order the Manual and the Audio from the Live Seminar as a Self-Study Package!
An audio recording of this seminar is available for \$289. Allow four weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Erosion and Sediment Control
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How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____
		Company/Firm: _____
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		Occupation: _____
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		Phone: _____
		Additional Registrants:
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		Occupation: _____
		Email: _____
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Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		
Complete the entire form. Attach duplicates if necessary.		
		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.
() I am not attending. Please send me the self-study package for \$289.00 .
☐ Downloadable MP3 Audio/PDF Manual
☐ CD/Manual Package
(Please allow four weeks from seminar date for delivery)
Checks: Make payable to HalfMoon Education Inc.
Credit Card: <i>Mastercard, Visa, American Express, or Discover</i>
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Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
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City: _____ State: _____ Zip: _____
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