

Agenda

Presented by Stephen Zwilling and Matt Welch

Soils

Understanding of the importance of soil testing and how to gather samples the right way
The importance of pH and organic matter and how it is critical for sustainable vegetation
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 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

Cherry Hill, NJ - Wednesday, January 31, 2018



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

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Learning Objectives

You'll be able to:

Identify types of erosion and discuss damage caused by erosion and sedimentation.

Explore practices that minimize site disturbance.

Review calculations for determining soil loss.

Discuss selecting appropriate practices for disturbed areas on the construction site.

Understand the importance of soil testing and soil improvement.



Erosion and Sediment Control

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Identify goals for erosion and sediment control practices

Understand the importance of soil testing

Examine non-structural erosion and sediment control practices

Learn calculations for determining soil loss and channel stabilization

Explore variables impacting erosion

Discuss preservation of native vegetation

Continuing Education Credits

Professional Engineers

7.0 CPC Credits/PDHs

Architects

7.0 HSW Contact Hours
7.0 AIA HSW Learning Units

Landscape Architects

7.0 NJ Credit Hours
7.0 LA CES HSW PDHs

Floodplain Managers

7.0 ASFPM CECs

Contractors

Non-Credit Continuing Ed.



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Faculty

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

Mr. Zwilling holds a bachelor’s 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 Blue’s, NCSU Erosion Control Field Days and at several Water Resource Workshops in the Eastern US and Canada.

Matt Welch, CPESC, CESSWI
Mr. Welch is the technical and 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

Seminar Information

Holiday Inn Philadelphia - Cherry Hill
2175 West Marlton Pike
Cherry Hill, NJ 08002
(856) 663-5300

Tuition

\$279 for individual registration
\$259 for three or more 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 or the CD/manual 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.



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, Wisconsin. 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 presenters Zwilling and Welch:

- “Very well done.” – *Engineer*
- “A good review.” – *Architect*
- “A good mix of information and practical examples.” – *Mechanical Engineer/Product Manager*
- “Great booklet and materials. Very knowledgeable presenters.” – *Landscape Architect*

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 CPC credits/PDHs to professional engineers in all states. HalfMoon Education is an approved continuing education provider for New Jersey engineers (Approval No. 24GP00000700).

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. Other states do not preapprove educators or courses.

This event has been approved by the American Institute of Architects for 7.0 HSW Learning Units (Sponsor No. J885). Courses approved by the AIA qualify for New Jersey architects. HalfMoon Education is deemed an approved continuing education provider in New York for architects and landscape architects.

The New Jersey State Board of Architects has approved this program for 7.0 continuing education hours for landscape architects. The Landscape Architecture Continuing Education System has approved this event for 7.0 HSW PDHs.

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

This seminar also offers a non-credit continuing education opportunity to contractors; it has not been approved in any state that has a contractor continuing education requirement.

Additional Learning

January Webinar Series

Masonry Design and Construction

- **Introduction to Masonry Materials and Requirements**
Thurs., Jan. 11, 2018, 11:00 AM - 1:00 PM CST
- **Masonry Construction Techniques**
Thurs., Jan. 11, 2018, 1:30 - 3:30 PM CST
- **Quality Control and Sampling**
Fri., Jan. 12, 2018, 11:00 AM - 1:00 PM CST
- **Masonry Inspections and the Masonry Standards Joint Committee (MSJC) Code**
Fri., Jan. 12, 2018, 1:30 - 3:30 PM CST

Deep Foundations

- **Deep Foundation Site Evaluation**
Wed., Jan. 17, 2018, 11:00 AM - 12:00 PM CST
- **Overview of Deep Foundations**
Wed., Jan. 17, 2018, 12:30 - 2:00 PM CST
- **Deep Foundation Pile Design**
Thurs., Jan. 18, 2018, 11:00 AM - 12:30 PM CST
- **Deep Foundation Installation and Testing**
Thurs., Jan. 18, 2018, 1:00 - 2:00 PM CST

Designing Solar Roofs and Community Solar

- **Design Your Solar Roof**
Wed., Jan. 24, 2018, 11:00 AM - 2:15 PM CST
- **Community Solar**
Wed., Jan. 31, 2018, 11:00 AM - 2:15 PM CST

Pumping and Piping System

- **Introduction to Pumps: Operation, Principles and Calculations**
Thurs., Jan. 25, 2018, 12:00 - 2:00 PM CST
- **Design Standards and Codes**
Thurs., Jan. 25, 2018, 2:30 - 3:30 PM CST
- **Piping System Components, Materials and Calculations**
Fri., Jan. 26, 2018, 12:00 - 2:00 PM CST
- **Handling Pump and Piping System Problems**
Fri., Jan. 26, 2018, 2:30 - 3:30 PM CST

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

Can’t Attend? Order the CD/Manual Package:
An audio recording of this seminar is available for \$289 (including shipping). Allow five 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
Cherry Hill, NJ - Wednesday, January 31, 2018

How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900		Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066		
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 CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*
Credit Card Number: _____
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Signature: _____
Email: _____

