

Agenda

Presented by Shoots Veis, P.E.

Erosion and Sediment Control Requirements and Practices

- Background on sediment and pollution control
- Environmental Protection Agency regulations
- State erosion and sediment control regulations
- Standards and specifications
- Permitting, approval and enforcement

Selection of Erosion and Sediment Control Practices

- Soil science
- Causes of erosion and sedimentation
- 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

- Non-structural controls - temporary and permanent seeding, sodding and mulching, geotextiles
- Stream and bank stabilization
- Structural controls

Erosion Control Measures for Small Channels

- Channel lining options

Control Measure Estimating and Calculation

- Estimates of erosion rates and sediment transport modeling
- Geotextiles
- Rip rap

Developing Stormwater Pollution Prevention Plans

- Permitting requirements
- Permitting authorization
- Permitting closeout and notice of termination

Stormwater Inspection and Maintenance

- BMP monitoring and record keeping
- Permitting obligations

Case Studies in Erosion, Sediment Control and Stormwater Permitting

- Erosion control
- Permitting near hazardous waste
- Land subdivision
- Industrial and utility facilities
- Streambanks

Erosion and Sediment Control

Billings, MT - Wednesday, December 19, 2018

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Learning Objectives

You'll be able to:

Explore erosion and sediment control regulations and requirements.

Identify practices that minimize site disturbance and preserve native vegetation.

Discuss stream bank erosion stabilization.

Explore structural and nonstructural best management practices for erosion and sediment control.

Get tips on using geotextiles and rip rap.

Review case studies in erosion, sediment control and stormwater permitting.



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Understand erosion and sediment control requirements

Explore practices that minimize site disturbance

Discuss erosion control measures

Examine permitting requirements for stormwater pollution prevention plans

Get tips on monitoring and maintaining stormwater BMPs

Continuing Education Credits

Professional Engineers

6.5 PDHs
6.5 PDHs MSE Approved

Architects

6.5 HSW CE Hours
6.5 AIA HSW Learning Units

Landscape Architects

6.5 HSW CE Hours
6.5 LA/CES HSW PDHs

Contractors

Non-Credit Continuing Ed.



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Faculty

Shoots Veis, P.E.



Mr. Veis is a senior project engineer focusing on municipal and telecommunication engineering assignments involving water and wastewater systems, land development, permitting and project management. He has been involved with stormwater and environmental permitting for nearly two decades. In order to help engineers with their communication, Mr. Veis has published *Public Speaking for Engineers*. He was named a top 20 under 40 construction professional by *ENR Mountain States* magazine, a Rising Star in Civil Engineering by *CE News* magazine, the outstanding young engineer by the Billings Engineers Club, and one of forty under 40 who made a difference in Billings.

Seminar Information

Hilton Garden Inn Billings 2465 Grant Road Billings, MT 59102 (406) 655-8800	Registration 8:00 - 8:30 am Morning Session 8:30 am - 12:00 pm	Lunch (On your own) 12:00 - 1:00 pm Afternoon Session 1:00 - 4:30 pm
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Tuition

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

Included with your registration:
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 (CDT), 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.

Additional Learning

Webinar Series

Cogeneration System Principles and Practice

- **Understanding the Benefits of Cogeneration**
Thurs., Nov. 8, 2018, 11:00 AM - 12:30 PM CST
- **Laws, Regulations and Building Codes Impacting Cogeneration**
Thurs., Nov. 8, 2018, 1:00 PM - 2:30 PM CST
- **Examining Cogeneration Technologies**
Fri., Nov. 9, 2018, 11:00 AM - 12:30 PM CST
- **Moving to Cogeneration: Analysis, Modeling and Case Studies**
Fri., Nov. 9, 2018, 1:00 - 2:30 PM CST

Shallow Foundation Design and Construction

- **Evaluating Building Sites**
Wed., Nov. 14, 2018, 11:00 AM - 12:30 PM CST
- **Shallow Foundation Design**
Wed., Nov. 14, 2018, 1:00 - 2:30 PM CST
- **Special Considerations in Foundation Design and Construction**
Thurs., Nov. 15, 2018, 11:00 AM - 12:30 PM CST
- **Soil Improvement and Foundation Diagnosis and Repair**
Thurs., Nov. 15, 2018, 1:00 - 2:30 PM CST

Roadway Design

- **Roadway Design**
Thurs., Nov. 29, 2018, 11:00 AM - 12:30 PM CST
- **Roadway Design Process**
Thurs., Nov. 29, 2018, 1:00 - 2:00 PM CST
- **Typical Roadway Sections and Alignment**
Fri., Nov. 30, 2018, 11:00 AM - 1:30 PM CST
- **Intersections, Drainage and Pedestrian-Bicycle Facilities**
Fri., Nov. 30, 2018, 2:00 - 3:30 PM CST

Residential Energy Code

- **Introduction to the Residential Energy Code and Mandatory Requirements**
Thurs., Dec. 6, 2018, 11:00 AM - 12:30 PM CST
- **IECC Residential Building Envelope Requirements**
Thurs., Dec. 6, 2018, 1:00 - 2:30 PM CST
- **IECC Residential HVAC Requirements**
Fri., Dec. 7, 2018, 11:00 AM - 12:30 PM CST
- **International Energy Conservation Permit Pathways**
Fri., Dec. 7, 2018, 1:00 - 2:30 PM CST

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

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects and landscape architects in most states. Educators and courses are not subject to preapproval in Montana. Continuing education is not mandatory for Montana landscape architects, but this course will qualify in most states with continuing education requirements.

The Montana Society of Engineers has approved this course for 6.5 PDHs.

This seminar has been approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. J885) and Landscape Architecture Continuing Education System for 6.5 HSW PDHs. 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 and landscape architects.

This seminar offers a continuing education opportunity to construction contractors but has not been submitted to any state contractor licensing board for continuing education approval.

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.

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

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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: _____
Fax: 715-835-6066	Name: _____ Occupation: _____ Email: _____ Phone: _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Name: _____ Occupation: _____ Email: _____ Phone: _____
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*

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