

Agenda

Presented by: Dr. Charles E. Williams Jr.

Erosion and Sediment Control Requirements and Practices

Environmental Protection Agency regulations
State erosion and sediment control regulations
Standards and specifications
Permitting, approval and enforcement

Goals for and Selection of Erosion and Sediment Control Practices

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

Non-Structural Erosion and Sediment Control Best Practices

Temporary and permanent seeding, sodding and mulching
Use of geotextiles
Chemical soil stabilization
Establishment of buffer zones

Stream and Bank Stabilization

Stream bank erosion protection
Bank stabilization and repair

Structural Erosion and Sediment Control Practices

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

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Erosion and Sediment Control
Memphis, TN - Thursday, April 19, 2018

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



Learning Objectives

You'll be able to:

Understand causes of erosion and sedimentation.

Comply with U.S. EPA, state and local regulations.

Review nonstructural erosion control practices, including geotextiles and chemical stabilization.

Discuss stream bank erosion protection, stabilization and repair.

Review structural erosion and sediment control practices, such as drainage swales and subsurface drains.

Establish plans for inspection, monitoring and maintenance.



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Understand federal, state and local erosion and sediment control requirements

Identify the goals for selecting erosion and sediment control practices

Examine structural and non-structural erosion and sediment control practices

Discuss sediment traps and sediment basins

Learn about inspection, monitoring and maintenance

Continuing Education Credits

Professional Engineers

6.5 PDHs (HSW)

Contractors

Non-Credit Continuing Ed.

Architects & Landscape Architects

6.5 HSW PDHs/CE Hours
6.5 AIA HSW Learning Units
6.5 LA CES HSW PDHs

Floodplain Managers

6.5 ASFPM CECs



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Faculty

Dr. Charles E. Williams Jr., is a professional civil engineer with 22 years of experience in private consulting, and with state, and municipal organizations. He came to the City of Jackson in May 2002, as a graduate civil engineer working in the Streets, Bridges and Drainage Division within the Public Works Department. In 2006, Dr. Williams was promoted to a senior civil engineer within the Engineering Division. Dr. Williams has served as the interim director of public works, and currently serves as the engineering manager within the Department of Public Works. He is a member of the American Society of Civil Engineers, the Mississippi Engineering Society, and the American Publics Works Association. His most recent accomplishment at the City of Jackson was the management of a grant awarded by Mississippi Emergency Management Agency (MEMA) totaling \$2.4 million allocated for drainage improvements to Lynch Creek. He also helped coordinate a memorandum of understanding between various federal, state, and local government organizations to rehabilitate the Mill Street Bridge on Woodrow Wilson Avenue, combining resources from all agencies in an amount of \$4 million. Dr. Williams has managed various engineering awarded grants, bonds, and other external funding opportunities totaling over \$75 million during his 15 year tenure at the City of Jackson. One of his most current duties is helping the City of Jackson stay in compliance with a \$400 million federal mandated consent decree for sanitary sewer violations. In addition he is also helping the City of Jackson develop a master plan to improve the City of Jackson’s aging infrastructure. Dr. Williams is a distinguished graduate of the University of Mississippi (B.S.C.E., 1996), Mississippi State University (M.S.C.E., 2000), Belhaven University (MBA, 2003), and the University of Alabama (PhD, Civil Engineering, 2013). He is a licensed professional engineer in the states of Mississippi, Alabama, and Louisiana. He is a member of Chi Epsilon Engineering Honor Society, and the author of two published engineering articles. He has also previously served as a speaker on the subject of “New Developments in Onsite Wastewater Treatments” for HalfMoon Education Seminars.

Seminar Information

Crowne Plaza Downtown
300 North 2nd Street
Memphis, TN 38105
(901) 525-1800

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 CD/manual package. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs (HSW) to professional engineers and 6.5 HSW PDHs/continuing education hours to architects and landscape architects in most states, including Tennessee. Educators and courses are not subject to preapproval in Tennessee.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Only full attendance can be reported to the AIA/CES and the LA/CES.

HalfMoon Education is deemed an approved architect continuing education sponsor for architect and landscape architects in New York. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, New Jersey, New York (NYSED No. 35), North Carolina, and North Dakota.

The Association of State Floodplain Managers has approved this course for 6.5 CECs.

This course offers building contractors with a non-credit continuing education opportunity. It has not been approved by any state contractor licensing board.

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.

Additional Learning

March Webinar Series

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development, Part I**
Wed., Mar. 7, 2018, 11:00 AM - 2:15 PM CST
- **Solar Photovoltaic Project Design and Development, Part II**
Thurs., Mar. 8, 2018, 11:00 AM - 2:15 PM CST

Handling Ethical Issues in Professional Engineering Practice
Fri., Mar. 9, 2018, 11:00 AM - 12:00 PM CST

Deep Excavations

- **Introduction to Deep Excavations**
Thurs., Mar. 15, 2018, 11:00 AM - 1:00 PM CDT
- **Soil Mechanics, Cantilever Walls and Anchored Sheet Pile Walls**
Thurs., Mar. 15, 2018, 1:30 - 3:00 PM CDT
- **Braced Excavation Design**
Fri., Mar. 16, 2018, 11:00 AM - 12:30 PM CDT
- **ASD and LRFD Design**
Fri., Mar. 16, 2018, 1:00 - 2:30 PM CDT

HEC-RAS

- **Hydraulic Principles and Applications**
Thurs., Mar. 22, 2018, 11:00 AM - 1:00 PM CDT
- **Working with the HEC-RAS User Interface**
Thurs., Mar. 22, 2018, 1:30 - 3:00 PM CDT
- **Water Surface Profiling**
Fri., Mar. 23, 2018, 11:00 AM - 1:00 PM CDT
- **Steady Flow Surface Profile Demonstrations**
Fri., Mar. 23, 2018, 1:30 - 3:30 PM CDT

Commercial Energy Conservation Code

- **Commercial Energy Conservation Code and COMcheck Introduction**
Weds., Mar. 28, 2018, 11:00 AM - 1:00 PM CDT
- **Building Envelope Energy Efficiency**
Weds., Mar. 28, 2018, 1:30 - 3:30 PM CDT
- **Heating, Ventilation and Air Conditioning Systems**
Thurs., Mar. 29, 2018, 11:00 AM - 1:00 PM CDT
- **Service Water Heating, Power and Lighting**
Thurs., Mar. 29, 2018, 1:30 - 3:00 PM CDT

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

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How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____
		Company/Firm: _____
		Address: _____
		City: _____ State: _____ Zip _____
Phone: 715-835-5900		Occupation: _____
		Email: _____
		Phone: _____
Fax: 715-835-6066		Additional Registrants:
		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: <i>Mastercard, Visa, American Express, or Discover</i>
Credit Card Number: _____
Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
Billing Address: _____
City: _____ State: _____ Zip: _____
Signature: _____
Email: _____