Learning Objectives

You’ll be able to:

Examine Pennsylvania Chapter 102 erosion and sediment control requirements.

Learn about boundary versus on-site erosion control.

Review how to design and size a sediment basin using Pennsylvania requirements.

Explore best practices, including sediment traps, filters, silt fences and ground covers.

Review how to design fixed-bed channels using both the maximum permissible velocity and shear stress methods.

Erosion and Sediment Control

Erie, PA
Thursday, August 27, 2015

This Seminar is also being offered in Scranton, PA, on August 13, 2015, and State College, PA, on September 10, 2015. Please visit www.halfmoonevents.org for more information.

Understand Chapter 102 erosion and sediment control requirements

Review boundary versus on-site erosion control

Learn how to design and specify a sediment basin using Pennsylvania requirements

Examine best management practices, including sediment traps and filter/silt fences

Learn how to design fixed-bed channels using both the maximum permissible velocity and shear stress methods.

Continuing Education Credits

Architects
6.5 HSW Contact Hours
6.5 AIA HSW Learning Units

Landscape Architects
6.5 HSW Contact Hours
6.5 LA CES HSW PDHs

Professional Engineers
6.5 PDHs

Contractors
Voluntary Cont. Ed.

Seminar Agenda

Presented by Albert R. Jarrett, PhD, PE

Erosion and Sedimentation: The Big Picture

Chapter 102 Requirements
Pennsylvania’s philosophy of erosion control
Erosion and sedimentation control plan requirements
Interface with post-construction stormwater plan

Boundary versus on-site erosion control
Agricultural approach to erosion control
Construction approach to erosion control
The magnitude of the problem
RUSLE erosion prediction model

Sediment Basin Design
Sediment basin research results
Pennsylvania requirements for sediment basin design
Sizing the basin
Dewatering the basin
Designing for maximum sediment removal

Erosion and Sediment Control BMPs

Sediment traps
Filter/silt fence
Inlet protection
Construction entrances

Ground covers:
• Vegetation
• Rolled erosion-control products (RECPs)
• Turf-reinforcement mats (TRMs)
• Hard covers

Channels and Channel Linings

Channel design
• Manning’s equation
• Maximum velocity designs
• Shear stress designs

Channel linings (vegetation, RECPs, TRMs, hard linings)
Check dams, wattles

Look to the Future
Creating a better sediment control system
Using flocculants
Faculty

Albert R. Jarrett, PhD, PE
Dr. Jarrett is Professor Emeritus of Agricultural and Biological Engineering at The Pennsylvania State University. He has over 40 years of experience teaching and researching erosion and sediment control, water management, impoundment design, drainage, and stormwater management. His erosion and sediment control experience includes preparing engineers for careers in the USDA-Natural Resources Conservation Service (NRCS) and the engineering consulting industry, especially land development projects where both stormwater and erosion and sediment control plans and permits are required in Pennsylvania. He has experience predicting erosion rates using RUSLE, and he helped develop the extension of RUSLE to include non-agricultural land uses. His research focused on understanding and improving the performance of sediment basins. He has taught the proper use of the manufactured erosion and sediment control products currently on the market. Channel design, sediment traps, construction entrances, wattles and establishment of vegetation have been part of his courses. Dr. Jarrett is considered one of the leading erosion control researchers, and he has contributed many refereed publications, textbooks, and extension fact sheets relating to erosion and sediment control. He is a member of the International Erosion Control Association (IECA) and a fellow in the American Society of Agricultural and Biological Engineers.

Here’s what attendees are saying about Albert R. Jarrett and his programs:

“Excellent program and first rate presenter!” – Contractor

“Very knowledgeable. Good presentation.” – Engineer/Landscape Architect

“Good pace. Easily understood.” – Architect

About the Seminar

Hilton Garden Inn Erie
2225 Downs Drive
Erie, PA 16509
(814) 866-1590

Registration
1-877-866-3471
www.halfmoonseminars.org

Summer Webinar Series

SketchUp for Building Professionals
Webinar Series
• SketchUp Concepts and Basics: Wed., July 15th, 2015, 12:00 - 1:30 PM EDT
• Build a Basic SketchUp Model: Fri., July 17th, 2015, 12:00 - 1:30 PM EDT
• Controlling the SketchUp Model: Wed., July 22nd, 2015, 12:00 - 1:30 PM EDT
• Building Terrain and Adding a Background to a SketchUp Model: Fri., July 24th, 2015, 12:00 - 1:30 PM EDT
• Geolocation: SketchUp and Google Earth: Wed., July 29th, 2015, 12:00 - 1:30 PM EDT
• SketchUp’s Layout Program: Fri., July 31st, 2015, 12:00 - 1:30 PM EDT

Seismic Design and Construction
Webinar Series
• Effect of Seismic Loads and Applicable Building Codes: Tues., July 28th, 2015, 12:00 - 4:30 PM EDT
• Seismic Design of Buildings: Thurs., July 30th, 2015, 12:00 - 4:30 PM EDT

Technical Writing for Engineers
Webinar Series
• Technical Writing Basics: Tues. August 11th, 2015, 12:00 - 2:00 PM EDT
• Planning Documents: Tues. August 11th, 2015, 2:30 - 4:30 PM EDT
• Writing Documents: Wed. August 12th, 2015, 12:00 - 2:00 PM EDT
• Revising and Editing Documents: Wed. August 12th, 2015, 2:30 - 4:30 PM EDT

Continuing Education Credit Information
This seminar is open to the public and offers up to 6.5 HSW continuing education hours to architects and landscape architects and 6.0 PDHs to professional engineers in most states, including Pennsylvania and New York. This course is approved for 8.0 hours for New Jersey landscape architects. Educators and courses are not subject to pre-approval in Pennsylvania.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. J885) and the Landscape Architect Continuing Education System for 6.5 HSW PDHs.

HalfMoon Education is an approved continuing education sponsor for architects in Florida and is deemed an approved sponsor for architects and landscape architects in New York. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, New York (Approval No. 24GP00007D01), New York (NYSED No. 35), North Carolina, and North Dakota.

This seminar also offers a continuing education opportunity to construction contractors but has not been submitted to any contractor licensing entity for course 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.

CD/Manual Package: An audio recording of this seminar is available for $279 (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.

Additional Learning

Registration
Erosion and Sediment Control
Erie, PA - Thursday, August 27, 2015

How to Register
Online: www.halfmoonseminars.org
Phone: 715-835-5900
Fax: 715-835-6066

Mail: HalfMoon Education Inc.
PO Box 278, Altoona, WI 54720-0278

Complete the entire form. Attach duplicates if necessary.

Registration Information
Name: ____________________________
Company/Firm: __________________
Address: _________________________
City: ___________________ State: ___ Zip: ________
Occupation: ______________________
Email: ____________________________
Phone: ____________________________
Key Code: ________________________

Additional Registrants:
Name: ____________________________
Occupation: ______________________
Email: ____________________________
Phone: ____________________________

Additional Information:
Make payable to HalfMoon Education Inc.
Credit Card: Mastercard, Visa, American Express, or Discover
Credit Card Number: ____________
Expiration Date: ____________
Cardholder Name: ______________________
Cardholder Address: ______________________
Billing City: ________________________
State: ________________________ Zip: ________
Signature: ________________________
Email: ____________________________

Tuition
I will be attending the live seminar. Single Registrant - $269.00. Three or more registrants from the same company registering at the same time - $249.00 each.

I am not attending. Please send me the CD manual package for $279.00. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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