



ATTENTION:

Engineers, Contractors, Consultants, and Inspectors

In one day learn a simple, step-wise process for selecting and designing sedimentation control devices. Review innovative designs for erosion, sediment, and turbidity control for lineal and vertical construction applications. Pick up new technologies as a plan designer that you can incorporate into your next SWPPP that work towards meeting turbidity guidelines.

At the end of the course you will be able to...

- Compute rainfall/runoff parameters for plan design
- Design highly effective sediment containment devices
- Discover Innovative sediment control design principles

The course will cover ...

- Rainfall/Runoff Relationship
- Estimating Soil Erosion
- Channel Design Considerations & Lining Selection
- Sediment Control Principles & Practices
- Sediment Control Best Management Practices
- Designing for Turbidity Reduction With Active and Passive Treatment Systems

Your Instructor:

Ted M. Sherrod, PE, CPESC, CPSWQ

Ted Sherrod works as the State Roadside Environmental Field Operations Engineer with NCDOT in Raleigh. He has about 30 years of experience in erosion and sedimentation control for the planning, design, implementation, and maintenance phases of highway and bridge construction. He holds a B.S. and Masters in Biological and Agricultural Engineering from NCSU. Ted is a registered Professional Engineer, a Certified Professional in Erosion and Sediment Control (CPESC), and a Certified Professional in Storm Water Quality (CPSWQ). He currently serves as the North Carolina representative for IECA's Southeast Chapter. He has served as Past Chair of the Certified Professional's Executive Council representing environmental professionals worldwide



425 36th Street SW
Wyoming, MI 49548



BMP Design for Linear Construction Projects

Thursday, March 3, 2011
Fetzer Center - Kalamazoo, MI

Completion of this course will provide
7 - PDH's. All classroom materials provided.

Presented by:
The International Erosion Control Association
&
West Michigan Soil Erosion Control Network

WMSECN
425 36th Street SW
Wyoming, MI 49548
Phone: 616-530-8230 Fax: 616-530-2317
email: mark.cavanaugh@priceandcompany.com

A Simple Step-wise Process for Selecting and Designing BMP's for Linear Construction

Course Outline:

Rainfall-Runoff Relationship

- Return Period, Exceedance Interval
- Precipitation Data
- Time of Concentration
- Rational Method

Estimating Soil Erosion

- Erosion Defined
- Types of Erosion
- Factors Influencing Erosion
- RUSLE Soil Erosion Prediction
- Basin/Trap Design w/RUSLE for Rural Linear Projects
- MUSLE Sediment Delivery

Channel Design Considerations & Lining Selection

- Bare Soil
- Vegetation
- Erosion Control Blankets
- Turf Reinforcement Mats
- Hard Armor

Sediment Control Principles and Practices

- Design Principles to Maximize Sediment Removal
- Controlling Discharge: The Principle Spillway
 - Rock Outlet
 - Skimmer
 - Perforated Riser (Orifice Equation)
 - Flashboard Riser (Weir Equation)
- Controlling Discharge: The Emergency Spillway

Sediment Control Best Management Practice Design

- BMP Selection
- Design Requirements
 - Porous Baffles
 - Rock Sediment Basins
 - Skimmer Basins
 - Tiered Skimmer Basins
 - Infiltration Basins

Designing for Turbidity Reduction - Active & Passive

- Passive Treatment Systems for Ditch Runoff
 - Fiber Check Dams with Polyacrylamide (PAM)
 - Wrapped Rock Dams with PAM
- Treatment Systems for Borrow Pits
 - Passive Systems
 - Active Systems

Summary



Lunch Provided!



International Erosion Control Association

Registration Form

BMP Design for Linear Construction

Thursday, March 3, 2011, 8:00 am-5:00 pm, Kalamazoo, MI

Last Name _____ First Name _____ Title _____
 Organization _____
 Mailing Address _____
 City _____ State _____ Zip _____
 Phone: _____ Fax: _____ Email: _____

Professional Field of Practice - Select One

- | | | | | |
|-------------------------------------|---------------------------------------|---|--|--|
| <input type="checkbox"/> Academic | <input type="checkbox"/> Developer | <input type="checkbox"/> Landscape Arch | <input type="checkbox"/> Non-Profit Org. | <input type="checkbox"/> Supplier |
| <input type="checkbox"/> Consultant | <input type="checkbox"/> Engineer | <input type="checkbox"/> Manufacturer | <input type="checkbox"/> Builder | <input type="checkbox"/> Utility Company |
| <input type="checkbox"/> Contractor | <input type="checkbox"/> Gov't Agency | <input type="checkbox"/> Mining | <input type="checkbox"/> Stormwater | <input type="checkbox"/> Other |

Location:

Fetzer Center @ Western Michigan University (Parking is Free)
1903 W. Michigan Ave., Kalamazoo, MI 49008

Course Fees

Please take advantage of discounted pricing (normally courses start at \$225 per day!)
 \$165 WMSECN Member \$200 Non-Member

WMSECN Membership

Join now and receive member rates for course fees plus a full year of regular meetings free. For more information on IECA membership visit www.ieca.org

- Professional \$35 Corporate \$100 Municipal \$50

Payment Information

Full payment MUST accompany this form

- Check Money Order MasterCard Visa

Credit Card # _____

Exp. Date _____

Authorized Signature _____

Program Note: In an effort to be sensitive to the environment (not to mention your shelf space) we will be providing the course material in electronic format. We strongly suggest that every attendee bring a laptop to access the class material during the program. Power strips will be available for you to plug in. If it is not possible for you to bring a laptop please let us know when you register.

Mail to: WMSECN, 425 36th Street SW, Wyoming, MI 49548

Fax to: 616-530-2317 or **Call:** 616-530-8230

Cancellation Policy: Cancellations before February 18, 2011, will result in a \$50 cancellation fee. After February 25, 2011, no refunds will be given.

Register Today!

Mail, Fax, Phone