

Agenda

Presented by:

Malay Ghose Hajra, Ph.D., P.E., ENV SP
and Tonja Koob Marking, PhD, PE, MBA, CFM, LEED AP

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

Erosion and Sediment Control Requirements and Practices

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

Stream and Bank Stabilization

Stream bank erosion protection
Bank stabilization and repair

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

Sediment Traps and Sediment Basins

Introduction to sediment transport
Calculating flow rates and capacity
Designing and sizing
Maintenance plans

Structural Erosion and Sediment Control Practices

Earthen dikes
Drainage swales
Pipe drains
Subsurface drains
Silt fences
Berms
Check dams

Soil Erosion and Sediment Control
Metairie, LA - Friday, August 10, 2018

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Learning Objectives

You'll be able to:

Understand the permitting process from application through enforcement.

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

Explore techniques to minimize site disturbance and reduce the chance for problems on a site.

Discuss selecting appropriate practices for stabilizing disturbed areas and capturing sediment on site.

Understand stream and bank stabilization methods to protect from erosion and provide stabilization.



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Understand the fundamentals of erosion and sediment control

Explore federal and Louisiana regulations that apply to erosion and sediment control on construction sites

Learn about non-structural erosion and sediment control best management practices

Discuss sediment containment methods and materials

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

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects &

Landscape Architects

6.5 HSW CEHs

6.5 AIA HSW Learning Units

6.5 LA/CES HSW PDHs

Floodplain Managers

6.5 ASFPM CECs

Contractors

Non-Credit Continuing Ed.



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Malay Ghose Hajra, Ph.D., P.E., ENV SP

Dr. Malay Ghose Hajra is an associate professor in the Civil and Environmental Engineering Department at the University of New Orleans (UNO) in Louisiana. He is a registered professional engineer (P.E.) in multiple states including Louisiana.

Dr. Ghose Hajra received his Ph.D. from Kansas State University in 2001 followed by a post-doctoral assignment at the Microscale Physiochemical Engineering Center at the University of Akron in Ohio. During the next ten years, he was employed as a consulting geotechnical engineer, working on and managing several hundred geotechnical design and construction projects in Louisiana, Texas, and Mississippi, dealing with complex foundation and pavement systems in unpredictable and changing subsurface soil conditions. The engineering analyses also included deep foundation recommendations for highway bridges, slope stability and seepage analyses for levees and embankments, and settlement estimates of soft compressible alluvial coastal deposits.

His professional experience also includes working with multiple Department of Transportation (DOT) agencies, US Army Corps of Engineers (USACE), and Louisiana Coastal Protection and Restoration Authority (CPRA) in the analyses and design of new Hurricane and Storm Damage Risk Reduction Systems (HSDRRS) and coastal restoration and protection projects in south Louisiana.

At UNO, Dr. Ghose Hajra’s academic research interests are in the areas of geotechnical and foundation engineering, coastal restoration and coastal protection, energy foundations, and in-situ and laboratory characterization of coastal sediment deposits, as well as sustainable coastal infrastructure systems. He teaches undergraduate and graduate level courses on geotechnical engineering and foundation design, coastal geotechnics, shear strength and slope stability, and sustainability principles for engineers. Dr. Ghose Hajra is a member of American Society of Civil Engineers (ASCE), ASCE

Geo-Institute’s Engineering Geology and Site Characterization Committee, Deep Foundations Institute (DFI), and Institute for Sustainable Infrastructure (ISI).

Tonja Koob Marking, PhD, PE, MBA, CFM, LEED AP

Dr. Koob Marking is the president of Gaea Consultants, LLC, a Louisiana, small, woman-owned civil and environmental engineering firm. She is a registered professional engineer (P.E.) in multiple states, including Louisiana.

Dr. Koob Marking received her Ph.D. degree from Washington State University in 2002 in Civil Engineering, with a specialty in Hydraulic Engineering. She worked as a senior hydraulic engineer for three years at the New Orleans District of the U.S. Army Corps of Engineers, where her primary design responsibilities focused on sediment transport, ecosystem restoration, and flood control studies.

She was a visiting assistant professor at Tulane University and the University of New Orleans for seven years, teaching undergraduate courses in hydrology, environmental engineering, senior design, hydraulic engineering, and chemical and biological waste treatment. She taught graduate courses in urban hydrology and drainage, sediment transport, streambank restoration, and wetland treatment systems. She served on multiple master’s thesis and dissertation committees.

At Gaea Consultants, LLC, Dr. Koob Marking has been the technically responsible party for 18 years, supervising technical reports and designs for stormwater management, street reconstruction, flood reduction and hazard mitigation, marsh restoration, environmental assessments, and forensic hydraulic engineering cases. She is a member of the American Society of Civil Engineers (ASCE), ASCE’s national History and Heritage Committee, the Society of Military Engineers (SAME), and Engineers Without Borders (EWB).

Seminar Information

Wyndham Garden New Orleans Airport
6401 Veterans Memorial Blvd.
Metairie, LA 70003
(504) 885-5700

Tuition

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

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How to Register

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- 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 to professional engineers and 6.5 HSW continuing education hours to architects in most states, including Louisiana. Educators and courses are not subject to preapproval in Louisiana. HalfMoon Education is an approved continuing education sponsor for Florida engineers.

This course 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. The Louisiana State Board of Architectural Examiners accepts programs approved by the American Institute of Architects. Only full attendance can be reported to the AIA/CES and LA/CES.

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

This course offers a non-credit continuing education opportunity for construction contractors. It is not approved in any state with a contractor continuing education requirement.

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

Webinar Series

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development Part 1**
Thurs., July 5, 2018, 11:00 AM - 2:15 PM CDT
- **Solar Photovoltaic Project Design and Development Part 2**
Fri., July 6, 2018, 11:00 AM - 2:15 PM CDT

AutoCAD 3D

- **Using Key Commands and Tools**
Part I: Wed., July 11, 2018, 11:00 AM - 2:15 PM CDT
Part II: Thurs., July 12, 2018, 11:00 AM - 2:15 PM CDT
- **Building a Solid Model**
Part I: Wed., July 18, 2018, 11:00 AM - 2:15 PM CDT
Part II: Thurs., July 19, 2018, 11:00 AM - 2:15 PM CDT

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

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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
Soil Erosion and Sediment Control

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