

Agenda

Erosion and Sediment Control Requirements and Practices	<i>P. Hanrahan</i>
Environmental Protection Agency regulations	
Navigating state regulatory requirements	
Examples of state to state standards and specifications	
Permitting, approval and enforcement	
Goals for and Selection of Shoreline Erosion and Sediment Control Practices	<i>S. Dehne</i>
Importance of limiting shoreline erosion and sedimentation	
Causes of shoreline erosion (upland vs. wave energies)	
Shoreline stabilization and protection	
Bioengineering and natural practices for shoreline health and longevity	
Structural Shoreline Erosion and Sediment Control Best Practices	<i>P. Hanrahan</i>
Lakes and ponds: fascines, brush mattresses, coir logs and more	
Streams and rivers: root wads, lunkers, fascines and more	
Living shorelines vs. hardened shorelines	
Goals and Features of Living Shorelines	<i>S. Dehne</i>
Littoral zone ecosystem/habitats and access	
Stabilizing and improving shoreline while supporting wildlife	
Promote living shorelines that are chemical free and aesthetic using native vegetation and natural features	
Living Shoreline Practices: Improving Ecosystems and Climate Resiliency	<i>P. Hanrahan</i>
Site analysis, preparation and installation	
Case Studies in Controlling Erosion and Creating Living Shorelines	<i>S. Dehne</i> <i>P. Hanrahan</i>
Q & A and Wrap Up	<i>S. Dehne</i> <i>P. Hanrahan</i>

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Controlling Shoreline Erosion and Creating Living Shorelines on Lakes and Rivers

Live, Interactive Webinar - Thursday, April 25, 2024

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



Learning Objectives

You'll be able to:

- Comply** with U.S. Environmental Protection Agency (USEPA) and state regulatory requirements on erosion and sediment control.
- Identify** causes of shoreline erosion and set goals for shoreline erosion control, shoreline stabilization and protection.
- Evaluate** structural shoreline erosion and sediment control best practices for lakes, ponds, rivers and streams.
- Explore** goals and features of living shorelines on lakes and rivers.
- Examine** techniques that improve ecosystems and climate resiliency.
- Participate** in case studies on erosion control and living shoreline creation.



HalfMoon Education Live Webinars

Controlling Shoreline Erosion and Creating Living Shorelines on Lakes and Rivers

Live, Interactive Webinar - Thursday, April 25, 2024



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| Study erosion and sediment control requirements and practices | Study structural shoreline erosion and sediment control best practices |
| Explore causes of shoreline erosion and learn about bioengineering and natural practices for shoreline health and longevity | Examine goals and features of living shorelines |
| | Discuss case studies in controlling erosion and creating living shorelines |

Continuing Education Credits

- | | |
|---|--|
| Professional Engineers
6.0 PDHs | Landscape Architects
6.0 HSW CE Hours
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| Architects
6.0 HSW CE Hours
6.0 AIA LU HSW | Floodplain Managers
6.0 ASFPM CECs |



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Webinar Information

Log into Webinar 8:00 - 8:30 am CDT	Break 12:15 - 12:45 pm CDT
Morning Session 8:30 am - 12:15 pm CDT	Afternoon Session 12:45 - 3:30 pm CDT

Tuition
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Faculty

Peter M. Hanrahan, CPESC *Principal at Hanrahan Environmental, LLC*
Mr. Hanrahan is a certified professional in erosion and sediment control, and he has more than 45 years of industry experience. In addition to presentations in Canada, Taiwan and the Dominican Republic, Mr. Hanrahan has also presented at the national level for many organizations, including the International Erosion Control Association, Land Improvement Contractors of America, the Geotechnical Fabrics Institute, the National Working Waterfront Network, and the American Water Works Association. His articles have been published in many industry magazines, including *Erosion Control*, *Land & Water*, *Geosynthetics*, and *Landscape Architect & Specifier News*. He has produced webinars for the International Erosion Control Association, HalfMoon Education, Forester University, the International Association of Hydroseeding Professionals, the New York State Society of Professional Engineers, the Saco Watershed Collaborative and Stormwater University. He has also served as a guest lecturer at the University of Mississippi, Ohio Northern University, The University of New England, the University of Maine, and Vermont Technical College. Mr. Hanrahan has also been active in industry organizations. He was national president of the International Management Council in 1991-92, and also served four terms (2010-13) as president of the Northeast Chapter of the International Erosion Control Association. He was also a founding board member of that organization’s Great Rivers Chapter. Mr. Hanrahan is also a member of the Senior Advisory Committee and Strategic Advisory Committees for Envirocert International, a member of the Stormwater University Advisory Board, and a member of the Editorial Review Board of the International Erosion Control Association.

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers, 6.0 HSW continuing education hours for licensed architects, and 6.0 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

Stacy D. Dehne, P.E. *Conservation Engineer*
Ms. Dehne is a licensed professional engineer in the State of Wisconsin with 30 years of experience in the environmental field. She graduated from the University of Wisconsin-Madison with a degree in Geological Engineering (a combination degree of Geology and Civil Engineering), She has worked for the Wisconsin DNR (WDNR) as well as a private consulting firm doing remediations and redevelopment investigations and designs. Since September 2000, she has been working with The State of Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) as the Field Conservation Engineer serving 14 Northern Wisconsin County Land and Water Conservation Departments. Her job is to help County Land Conservation staff in technical planning, design, and construction of projects that prevent soil erosion and protect water quality. Primarily her workload consists of water resource issues and the protection of eroding streambanks and lakeshores as well as stream crossing design and implementations. Working with private landowners and municipalities she oversees the planning, design, and construction implementation of multiple projects each year. Following standards created and managed by the Natural Resources Conservation Service (NRCS), projects adhere to the criteria in “Streambank and Shoreline Protection,” “Stream Crossing,” “Channel Bed Stabilization,” “Open Channel,” “Grade Stabilization” and “Shoreland Habitat” practices. Many projects also require an understanding and incorporation of the WDNR permitting and Army Corps of Engineers (ACOE) permitting if wetlands are adjacent. In 24 years in this position, Ms. Dehne has implemented hundreds of projects on inland lakes and flowages using a combination of bioengineering techniques and hard armoring. She worked with her County coworkers to create and publish a guide for landowners on shoreline stabilization techniques. She has presented multiple times at the Wisconsin Lakes & Rivers Convention.

The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs. Only full participation is reportable to the LA CES.

This Association of State Floodplain Managers has approved this course for 6.0 CECs for floodplain managers.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

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