

Agenda

Presented by Dr. Michael Liptak

Wetlands Science

- Defining wetlands and identifying different types
 - Wetland soils and vegetation
 - Wetland hydrology
- Environmental services provided by wetlands

**Wetlands History in the United States:
Systematic Destruction and Degradation**

- The historic view of wetlands: wastelands
- Wetland elimination in service of agriculture and development
- Turning the corner: the Clean Water Act of 1972
- National Food Security Act of 1985
- State wetlands initiatives

Purposes and Benefits of Wetland Restoration

- What it means to restore a wetland
- Restoration versus conservation or management
- Goals of wetland restorations
- Assessing viability of goals and beginning a restoration plan

Planning a Wetland Restoration

- Complying with federal, state and local regulations
- Obtaining permits
- Getting assistance from government agencies and non-government groups
- Developing a site plan

Implementing a Restoration Plan

- Creating a timetable
- Finding the right contractor
- Considering vegetation and wildlife
- Monitoring and maintenance plans

Wading in: Wetland Restoration Case Studies

- Discussing case studies of restored wetlands for lessons learned
- Reviewing case studies of degraded wetlands (provided by students)
- Evaluating restoration potential

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Wetland Restoration

Live, Interactive Webinar - Wednesday, June 5, 2024

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



Learning Objectives

You'll be able to:

Identify the characteristics of wetlands and explore the environmental services wetlands provide.

Learn about the United States' systematic destruction and degradation of wetlands.

Explore the benefits of wetland restoration.

Comply with federal, state and local regulations when planning a wetland restoration project.

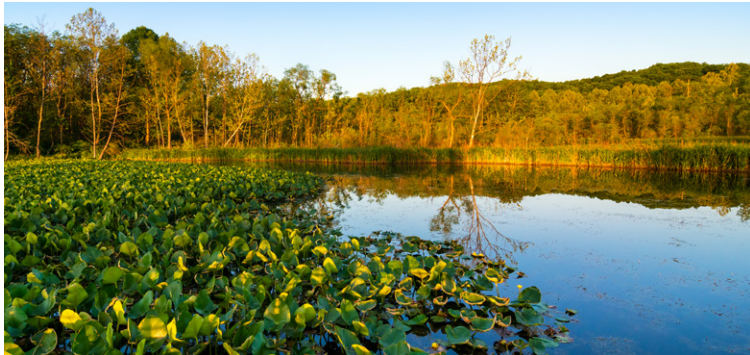
Consider vegetation and wildlife when restoring wetlands.

Discuss case studies of degraded and restored wetlands.



HalfMoon Education Inc., Your LIVE Education Leader Presents Wetland Restoration

Live, Interactive Webinar - Wednesday, June 5, 2024



Define wetlands and identify soils, vegetation and hydrology

Review the U.S. history of wetland destruction and degradation

Explore the purposes and benefits of wetland restoration

Comply with federal, state and local regulations when planning a restoration

Discuss wetland restoration case studies

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CE Hours
6.5 AIA LU | HSW

Landscape Architects
6.5 HSW CE Hours
6.5 LA CES HSW PDHs

Floodplain Managers
6.5 ASFPM CECs



Webinar Information

Online - Wednesday, June 5, 2024	
Log into Webinar	Break
8:30 - 9:00 am CDT	12:15 - 12:45 pm CDT
Morning Session	Afternoon Session
9:00 am - 12:15 pm CDT	12:45 - 4:30 pm CDT

Tuition
\$339 for individual registration.
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Faculty

Dr. Michael Liptak is a senior ecologist at EnviroScience, Inc, where he specializes in wetland ecology, wetland restoration, and mitigation wetland design. Dr. Liptak earned a B.S. degree in Biology at the University of Toledo and a Ph.D. degree in Environmental Science at The Ohio State University under the noted wetland ecologist Dr. William Mitsch. He has over 25 years of experience in wetlands research and consulting and is a Certified Senior Ecologist (Ecological Society of America). His primary responsibilities at EnviroScience Inc. include wetland mitigation planning, wetland assessments and delineations, technical report preparation, and permitting. Dr. Liptak is a member of the Society of Wetlands Scientists and the Ecological Society of America, and regularly gives seminars on wetland issues and regulations.

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers, 6.5 HSW continuing education hours for licensed architects, and 6.5 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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The American Institute of Architects Continuing Education System has approved this course for 6.5 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

This Association of State Floodplain Managers has approved this course for 6.5 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).

On-Demand Credits
The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
6.5 HSW LUs (AIA), 6.5 HSW PDHs (LA CES), 6.5 ASFPM CECs

Additional Learning

- Temporary Construction Site Erosion and Sediment Control BMPs**
- Monday, May 13, 2024 | 9:00 am - 4:00 pm CDT
 - Managing Engineering Liability and Risk**
- Wednesday, May 15, 2024 | 8:30 am - 4:30 pm CDT
 - A Closer Look: Federal Strategies in Addressing PFAS Contamination**
- Thursday, May 16, 2024 | 9:00 - 11:00 am CDT
 - Endocrine-Disrupting Chemicals in Water Supplies**
- Friday, May 17, 2024 | 9:00 am - 4:00 pm CDT
 - Heritage Trees: Why and How to Save and Protect Them**
- Friday, May 17, 2024 | 10:00 am - 1:00 pm CDT
 - Hydronic and Radiant Heating Systems for Residential and Light Commercial Buildings**
- Tuesday, May 21, 2024 | 9:00 am - 4:00 pm CDT
 - Wetland Preservation, Restoration, Creation and Enhancement**
- Tuesday, May 21, 2024 | 10:00 am - 12:00 pm CDT
 - Floodplain Modeling, Mapping and Regulation**
- Wednesday, May 29, 2024 | 10:00 am - 2:00 pm CDT
- Thursday, May 30, 2024 | 10:00 am - 2:00 pm CDT
 - How to Use Less “Toxic” Weed Control**
- Wednesday, May 29, 2024 | 10:00 am - 12:00 pm CDT
 - Understanding Subsidence Caused by Groundwater Withdrawal**
- Wednesday, May 29, 2024 | 12:00 - 2:00 pm CDT
 - Deep Dive into Concrete and Rigid Pavements for Streets, Roads and Parking Areas**
- Thursday, May 30, 2024 | 2:00 - 4:00 pm CDT
 - Mississippi River Conference: Environmental, Management and Planning Considerations**
- Thursday, May 30, 2024 | 9:00 am - 4:00 pm CDT
 - Rain Garden Design, Construction and Maintenance**
- Thursday, May 30, 2024 | 9:00 am - 4:00 pm CDT
 - Advanced HEC-RAS Modeling**
- Friday, May 31, 2024 | 8:30 am - 5:30 pm CDT
 - Interior Acoustical Design and Construction**
- Friday, May 31, 2024 | 8:30 am - 4:30 pm CDT
 - The Tree Course: Science, Design, and Sustainability**
- Friday, May 31, 2024 | 9:00 am - 4:30 pm CDT
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