

# Agenda

Presented by Michael A. Liptak, Ph.D.

## Introduction to Wetlands

- Legal and ecological definitions
  - Presence of wetland vegetation
  - Identification of wetland soils
  - Importance of underlying wetland hydrology
- Ecological functions provided by wetlands
  - Flood storage and conveyance
  - Pollution control and carbon storage
  - Erosion control
  - Wildlife habitat
  - Recreation

## Understanding Federal and State Wetlands Laws and Enforcement

- The Rivers and Harbors Act of 1899
- The Clean Water Act
- Food Security Act of 1985
- Supreme Court cases
- Jurisdiction under the Navigable Waters Protection Rule
- Ohio laws and regulations
- Waters of the US vs. waters of the state
- Implementing/enforcing agencies
  - U.S. Army Corps of Engineers
  - U.S. Environmental Protection Agency
  - U.S. Department of Agriculture
  - U.S. Fish and Wildlife Service
  - Ohio Environmental Protection Agency

## Wetlands Permitting Process

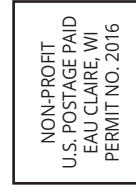
- Wetland delineations and jurisdictional determinations
- Federal and state jurisdiction
- Local regulations
- Wetland permitting and certification processes
- Section 404 and 401 permits
- Section 9 and 10 permits
- Nationwide permits vs. individual permits
- Appeals process

## Wetland Preservation, Restoration, Creation and Enhancement

- Wetland preservation strategies and techniques
- Wetland restoration
  - Grant-funded restoration vs. mitigation
- The mitigation hierarchy
  - Hydrological considerations
  - Restoration techniques
- Wetland creation: methods, benefits, and drawbacks
- Wetland enhancement: purposes and techniques
- Monitoring requirements and success criteria

# Ohio Wetlands Law and Compliance

Live, Interactive Webinar - Thursday, August 5, 2021



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



## Learning Objectives

### You'll be able to:

**Identify** the roles of vegetation, soils, and underlying hydrology in wetland identification.

**Explore** the ecological benefits provided by wetlands, such as flood storage and pollution control.

**Discuss** federal wetlands laws, including the Rivers and Harbors Act of 1899, the Clean Water Act, and the Food Security Act of 1985.

**Understand** wetland delineations and jurisdictional determinations.

**Explain** the wetlands permitting and certification process for Section 404 and 401 permits.

**Examine** techniques for wetland preservation, restoration, creation, and enhancement.



## HalfMoon Education Online Learning

# Ohio Wetlands Law and Compliance

Live, Interactive Webinar - Thursday, August 5, 2021



**Explore** the legal and ecological definitions of wetlands

**Review** ecological functions provided by wetlands

**Understand** federal and Ohio wetlands laws and enforcement

**Discuss** the wetlands permitting process

**Examine** wetland preservation strategies and techniques

**Explore** the methods, benefits, and drawbacks of wetland creation

## Continuing Education Credits

**Professional Engineers**  
7.0 PDHs

**Architects**  
7.0 HSW CE Hours

**AIA**  
7.0 LU | HSW

**Landscape Architects**  
7.0 HSW CE Hours

**LA CES**  
7.0 HSW PDHs

**Floodplain Managers**  
7.0 ASFPM CECs

**OH Attorneys**  
7.0 General CLE Hours



# Faculty

## Michael A. Liptak, Ph.D.

EnviroScience, Inc., Northeast Headquarters, Stow, Ohio

Dr. Liptak is a member of the ecological survey team where he specializes in rare plant surveys, wetlands ecology, wetland restoration, and mitigation wetland design. He earned his Ph.D. degree at The Ohio State University under the noted wetland ecologist Dr. William Mitsch, and completed his graduate research on the created wetlands at the Olentangy River Wetland Research Park in Columbus. Dr. Liptak has over 15 years of experience in wetlands research and ecological consulting and is a certified senior ecologist (Ecological Society of America). His main responsibilities at EnviroScience include rare plant surveys, wetland restoration planning, wetland assessments and delineations, technical report preparation and permitting. Dr. Liptak has experience in preparing mitigation plans for many different projects, including wetland creation, restoration and enhancement, as well as preparing upland restoration and prairie planting plans. He has extensive experience with terrestrial, aquatic and wetland surveys for projects of all sizes. Dr. Liptak is a pre-qualified consultant certified to complete aquatic and terrestrial ecological surveys, wetland delineations, waterways permitting, and wetland mitigation design for Ohio Department of Transportation (ODOT) projects. He is a member of the Society of Wetlands Scientists and the Ecological Society of America. Dr. Liptak regularly gives seminars on ecological issues and regulations within the state of Ohio.

# Webinar Information

Log into Webinar 8:00 - 8:30 am EDT	Break 11:45 am - 12:45 pm EDT
Morning Session 8:30 - 11:45 am EDT	Afternoon Session 12:45 - 5:00 pm EDT

## Tuition

**\$289** for individual registration

**\$199** for three or more registrants from the same company at the same time.

**Included with your registration:** PDF seminar manual.

## How to Register

- Visit us online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org)
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit [www.gotowebinar.com](http://www.gotowebinar.com).

**Cancellations:** Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

# Additional Learning

## Stormwater Best Management Practices

- Thurs, July 1, 2021 | 8:30 am - 5:00 pm CDT

## Erosion and Sediment Control

- Tues, July 13, 2021 | 8:30 am - 5:00 pm CDT

## Retaining Wall Design and Slope Stabilization Techniques

- Tues, July 13, 2021 | 11:00 am - 2:15 pm CDT

- Wed, July 14, 2021 | 11:00 am - 2:15 pm CDT

## Floodplain Mapping, Regulation, and Insurance

- Thurs, July 15, 2021 | 11:00 am - 2:15 pm CDT

- Fri, July 16, 2021 | 11:00 am - 2:15 pm CDT

## Street Maintenance and Traffic Operations

- Thurs, July 15, 2021 | 11:00 am - 2:30 pm CDT

- Fri, July 16, 2021 | 11:00 am - 2:30 pm CDT

## The NEW 2021 Minimum Standards for ALTA/NSPS Land Title Surveys

- Mon, July 19, 2021 | 9:00 am - 12:15 pm CDT

## Stream Restoration in the Eastern U.S.

- Tues, July 20, 2021 | 7:30 am - 4:00 pm CDT

## Providing Floodplain Services

- Wed, July 21, 2021 | 11:00 am - 2:30 pm CDT

## Technical Writing Workshop for Design Professionals

- Fri, July 23, 2021 | 8:30 am - 5:00 pm CDT

## Understanding and Working with Urban Soils

- Fri, July 23, 2021 | 8:30 - 10:30 am CDT

## Site Design

- Mon, July 26, 2021 | 8:30 am - 5:00 pm CDT

## Project Management for Engineers

- Wed, July 28, 2021 | 8:30 am - 4:30 pm CDT

## Reading, Interpreting and Writing Land Descriptions Workshops

- Wed, July 28, 2021 | 9:00 am - 4:00 pm CDT

For more information and other online learning opportunities visit: [www.halfmoonseminars.org](http://www.halfmoonseminars.org)

## Continuing Education Credit Information

This webinar is open to the public and offers 7.0 PDHs to professional engineers licensed in Ohio. Educators and courses are not subject to preapproval in Ohio.

This course offers 7.0 HSW continuing education hours to Ohio architects and landscape architects. It is approved by the American Institute of Architects Continuing Education System for 7.0 LU | HSW and by the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Only full attendance is reportable to AIA/CES and LA CES.

The Association of State Floodplain Managers has approved this course for 7.0 CECs for certified floodplain managers.

The Ohio Supreme Court Commission on CLE has approved this course for 7.0 general CLE hours for attorneys.

Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

## Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit. Self-study packages do not qualify for AIA or LA CES credit.

# Registration

## Ohio Wetlands Law and Compliance

Live, Interactive Webinar - Thursday, August 5, 2021

How to Register		Registrant Information
<b>Online:</b> <a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
<b>Phone:</b> 715-835-5900	<b>Fax:</b> 715-835-6066	<b>Additional Registrants:</b> Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Mail:</b> HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.
<b>Complete the entire form.</b> Attach duplicates if necessary.		( )  I need special accommodations. Please contact me.

## Tuition

( ) **I will be attending the live webinar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.

( ) **I am not attending.** Please send me the webinar recording:

Streamable MP4 Video/PDF Manual for **\$299.00**.

USB Video/PDF Manual for **\$299.00**.

**Checks:** Make payable to HalfMoon Education Inc.

**Credit Card:** *Mastercard, Visa, American Express, or Discover*

Credit Card Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_ CV2 Code: \_\_\_\_\_

Cardholder Name: \_\_\_\_\_

Billing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Signature: \_\_\_\_\_

Email: \_\_\_\_\_