

# Agenda

Presented by Dr. Michael Liptak, Ph.D.

**Identifying and Delineating Wetlands**

- Presence of wetland vegetation
- Identification of wetland soils
- Importance of underlying wetland hydrology

**Understanding Federal and Ohio Wetlands Laws and Enforcement**

- The Federal Clean Water Act
- National Food Security Act of 1985
- Implementing/enforcing agencies
  - Ohio Environmental Protection Agency
  - U.S. Army Corps of Engineers
  - U.S. Environmental Protection Agency
  - U.S. Department of Agriculture, U.S. Fish and Wildlife Service

**Wetlands Permitting Process**

- Wetlands determinations and delineations
- Determining applicability of regulations
- Wetland permitting and certification processes
  - Notice provisions
  - Review process
  - Mitigation/compensation requirements
- Appeals process

**Wetland Preservation, Restoration, Creation and Enhancement**

- Understanding the importance of wetlands
  - Flood storage and conveyance
  - Pollution control and carbon storage
  - Erosion control
  - Wildlife habitat
  - Recreation
- Wetland preservation strategies and techniques
- Wetland restoration
  - Preference for onsite and in-kind restoration
  - Hydrological considerations
  - Restoration techniques
- Wetland creation: methods, benefits and drawbacks
- Wetland enhancement: purposes and techniques

**Ethics Issues in Wetland Preservation and Development**

- Acting in the best interest of the public on wetlands issues
  - Finding alternatives to wetlands destruction
  - Including wetland preservation in development plans
  - Convincing clients to preserve and restore wetlands

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## Ohio Wetlands Science, Law and Compliance

Live, Interactive Webinar - Monday, September 18, 2023

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## Learning Objectives

**You'll be able to:**

**Review** strategies and techniques for preserving, restoring, creating and enhancing wetlands.

**Understand** the importance of the underlying hydrology and the role it plays in flood storage and conveyance, pollution and erosion control, wildlife habitat, recreation and more.

**Reference** the Federal Clean Water Act and the National Food Security Act of 1985.

**Identify** the implementing and enforcing agencies in Ohio, including the Ohio EPA, US Army Corps of Engineers, the US EPA, and more.

**Implement** strategies and techniques for preserving, restoring, creating and enhancing wetlands with a preference for onsite and in-kind restorations.

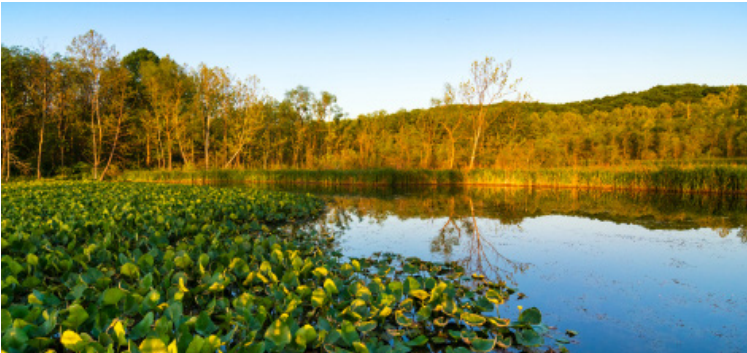
**Act** in the best interest of the public on wetland issues by finding alternatives to wetland destruction, including preservation in development plans and convincing clients to preserve and restore wetlands.



### HalfMoon Education Live Webinars

# Ohio Wetlands Science, Law and Compliance

Live, Interactive Webinar - Monday, September 18, 2023



**Identify** wetlands by their vegetation and soils

**Identify** the implementing and enforcing agencies in Ohio

**Reference** federal wetland regulations

**Discuss** methods, benefits and drawbacks of wetland creation

**Navigate** ethical issues in wetland preservation and development

**Act** in the best interest of the public on wetlands issues

### Continuing Education Credits

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Including 1.0 Ethics Hour

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7.0 AIA LU | HSW

**Landscape Architects**

7.0 HSW CE Hours  
7.0 LA CES HSW PDHs

**Floodplain Managers**

7.0 ASFPM CECs

**Certified Planners**

CM | 7

**Attorneys**

7.0 CLE Hours



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# Webinar Information

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

**Tuition**  
**\$319** for individual registration  
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# Faculty

**Dr. Michael Liptak, Ph.D.** *Senior Ecologist – EnviroScience, Inc.*  
Dr. Michael Liptak is a senior ecologist at EnviroScience, Inc, where he specializes in wetland ecology, wetland restoration, and mitigation design. Dr. Liptak earned a B.S. degree in Biology at the University of Toledo and a Ph.D. degree in Environmental Science at 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 regulaitions.

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# Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs, including 1.0 ethics hour, for professional engineers, 7.0 HSW continuing education hours for licensed architects, and 7.0 HSW continuing education hours for landscape architects in Ohio. Professionals seeking continuing education credits in other states may be able to claim the hours earned at this webinar; please refer to specific board rules to determine eligibility.

This webinar has been approved by the Supreme Court of Ohio for 7.0 general CLE hours (live format only; not eligible for on-demand).

The American Institute of Architects Continuing Education System has approved this course for 7.0 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 7.0 HSW PDHs. Only full participation is reportable to the LA CES.

This webinar has been approved by the Association of State Floodplain Managers for 7.0 CECs for floodplain managers.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 7 for Certified Planners.

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**  
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7.0 HSW LUs (AIA)  
7.0 HSW PDHs (LA CES)  
7.0 ASFPM CECs

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# Additional Learning

**Issues in Ohio Energy and Electric Utility Regulation**  
Wednesday, September 13, 2023 | 8:30 am - 3:20 pm EDT

**Agenda Topics**

- Ohio’s Electricity Sector and Utility Regulation
- Issues Impacting the Electric Rates in Ohio
- Renewable Energy Development and Growth
- Public Utilities Commission of Ohio (PUCO) Practice, Procedure and Current Docket
- Ohio Power Siting Board Jurisdiction and Approval of Generation Facilities

**Credits**  
Professional Engineers: 6.0 PDHs | Attorneys: Pending  
Certified Planners: CM|6.0

**Faculty**

**Gilbert Michaud, PhD**  
*Assistant professor of Environmental Policy at the School of Environmental Sustainability at Loyola University Chicago*

**Ramteen Sioshansi**  
*Professor in the Department of Engineering and Public Policy and Department of Electrical and Computer Engineering and is the director of Carnegie Mellon Electricity Industry Center at Carnegie Mellon University*

**Jane Harf**  
*Executive Director at Green Energy Ohio (GEO)*

**Trent Dougherty**  
*Partner at the firm Hubay Dougherty and chair of the firm’s nonprofit law and energy and environmental law practice areas*

**Matthew McDonnell**  
*Attorney in Dickinson Wright’s Columbus office*

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