

Agenda

Identifying Wetlands M. Strain

- What are wetlands?
- Why are wetlands Important?
- Why delineate wetlands?
- Wetland hydrology criteria
- Hydrophytic vegetation
- Hydric soils

Understanding Federal Law and Ohio Wetland Laws M. Dilley

- Overview of the Clean Water Act
 - Current status of proposed revisions
- Implementing/enforcing agencies
 - Federal
 - USACE-Section 404 Individual Permits, Nationwide Permits
 - USEPA-Individual Permits, Section 401 Water Quality Certification
 - US Department of Agriculture and NRCS Swampbuster Program
 - State
 - Ohio EPA-401 Water Quality Certifications,
 - Isolated Wetland Permits, Section 402 Stormwater Permitting
 - Local
 - SWCDs and local ordinances

Wetlands Permitting Process T. Eisenlohr

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

Wetland Preservation, Restoration, Creation and Enhancement M. Dilley

- Brief history of wetland loss
- Understanding the importance of wetlands
 - Flood storage and conveyance
 - Water quality improvement
 - Groundwater recharge
 - Erosion control
 - Wildlife habitat
 - Recreation and education
 - Wetlands and climate change
- Wetland preservation and protection
- Wetland re-establishment terminology, techniques and considerations (benefits and drawbacks)
 - Creation
 - Rehabilitation
 - Enhancement
- Restoration
 - Evaluating success
 - Project examples and lessons learned

Wetland Laws and Compliance
Cincinnati, OH - Thursday, October 24, 2019

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Learning Objectives

You'll be able to:

- Identify** wetlands on proposed construction projects by the presence of particular vegetation and soil conditions.
- Reference** federal and state wetland laws and enforcement agencies prior to site development.
- Participate** in the wetland permitting and certification process.
- Explain** the environmental importance and contributions of wetlands and how they can be preserved, restored, created, and enhanced.



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Wetland Laws and Compliance

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- Learn** how wetlands are defined and delineated
- Review** the federal, state and local wetland permitting process
- Discuss** federal and Ohio wetland laws including the federal Clean Water Act
- Understand** wetland preservation, re-establishment and enhancement

Continuing Education Credits

- Professional Engineers**
6.5 CPD Hours/PDHs
- Floodplain Managers**
6.5 ASFPM CECs
- Architects & Landscape Architects**
6.5 HSW Contact Hours
6.5 AIA LU|HSW
6.5 LA/CES HSW PDHs
- Attorneys**
6.5 Ohio CLE Hours



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Mitchel R. Strain, CPSS, PWS *Smart Services, Inc, Newark*

Mr. Strain has over 30 years of experience with all aspects of the National Environmental Policy Act (NEPA) compliance including preparation of environmental assessments (EA), environmental impact statements (EIS), categorical exclusions (CE) and other NEPA documentation, baseline biological assessments, and habitat evaluation procedure (HEP) analyses; threatened and endangered species surveys and critical habitat assessments; wetland and stream evaluations; cultural resource investigations; and vegetative community surveys. Mr. Strain's particular expertise is in wetland science, including delineation, creation, and restoration of wetlands for mitigation and wildlife habitat, Clean Water Act (CWA) Section 404 and 401 permitting, and design of constructed wetland treatment systems.

Tobias Eisenlohr *McKinney & Namei, Cincinnati*

Mr. Eisenlohr is a litigation associate at McKinney & Namei. Prior to joining the firm, he was assistant city attorney for the City of Virginia Beach, where he served as the city's legal counsel for its Wetlands Board, Chesapeake Bay Preservation Area Board, Green Ribbon Committee, Bayfront Advisory Committee, and Housing Advisory Board. In this capacity, he worked on permit applications for private development in environmentally sensitive areas, representing the public interest. Mr. Eisenlohr holds a J.D. degree from William & Mary Law School and graduated *magna cum laude* from Ohio State University with a B.A. degree in Political Science.

Seminar Information

Holiday Inn Eastgate (I-275E)
4501 Eastgate Blvd.
Cincinnati, OH 45245
(513) 752-4400

Registration
8:00 - 8:30 am
Morning Session
8:30 - 11:45 am
Lunch (On your own)
11:45 am - 12:45 pm
Afternoon Session
12:45 - 4:30 pm

Tuition
\$289 for individual registration
\$269 for three or more registrants from the same company at the same time.
Included with your registration: *Complimentary continental breakfast and printed seminar manual.*
Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- 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 self-study package. You may also send another person to take your place.

Mark A. Dilley, PWS *MAD Scientist Associates, LLC, Westerville*

Mr. Dilley earned a B.S. degree in Natural Resources (Fisheries Management) in 1991 and an M.S. degree in Environmental Science (specializing in wetlands) in 2003, both from The Ohio State University. He and his wife Christine are co-owners of a WBE, WOSB, and EDGE-certified environmental consulting firm, MAD Scientist Associates, specializing in ecological and wetland consulting. Mr. Dilley has over 20 year's experience as a field biologist, ecologist, and wetland scientist. He is an EPA-certified Level 3 qualified data collector (QDC) for fish and habitat studies in Ohio, a certified senior ecologist with the Ecological Society of America, and a professional wetland scientist with the Society of Wetland Scientists. Mr. Dilley has conducted ecological surveys in over 11 states, at a variety of sites, including Department of Energy, NASA, and U.S. military facilities, landfills, and industrial sites. His academic research has focused on biological monitoring of streams and rivers and atrazine (agricultural herbicide) fate and transport processes in constructed wetlands. In his current role, he manages several dozen projects annually involving ecological surveys; environmental education; wetland delineation, permitting, assessment; and restoration design and construction for a wide variety of public and private clients. He is also a lecturer at The Ohio State University, where he teaches Wetland Ecology & Restoration.

Continuing Education Credit Information

This live lecture presentation is open to the public and offers 6.5 continuing professional development hours/PDHs to Ohio professional engineers and 6.5 HSW contact/continuing education and 6.5 HSW contact hours to Ohio architects and landscape architects. Educators and courses are not subject to preapproval in Ohio.

This course is approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885) and by the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Only full attendance can be reported to the AIA/CES and LA/CES. Visit www.halfmoonseminars.org for complete AIA information under this course listing.

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

The Ohio Commission on CLE has approved this program for 6.5 general CLE hours for attorneys.

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 I**
Wed., October 2, 2019, 11:00 AM - 2:15 PM CDT
 - **Solar Photovoltaic Project Design and Development, Part II**
Thurs., October 3, 2019, 11:00 AM - 2:15 PM CDT

- Component Tolerance Analysis**
- **Introduction to Component Tolerance Analysis**
Thurs., October 17, 2019, 11:00 AM - 12:00 PM CDT
 - **Dimensional Tolerance Analysis**
Thurs., October 17, 2019, 12:30 - 3:00 PM CDT
 - **Application of Dimensional Tolerance Analysis**
Fri., October 18, 2019, 11:00 AM - 2:15 PM CDT

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

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!
A full recording of this seminar is available for \$289, which includes shipping and handling. This learning method does not qualify for the continuing education credit for Ohio architects, landscape architects, engineers AIA or ASLA. Please allow five weeks from the seminar date for delivery.

Registration

Wetland Laws and Compliance

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How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
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☐ CD/Manual Package for **\$289.00**.

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