

Agenda

Identifying Wetlands Presence of wetland vegetation Identification of wetland soils Importance of underlying wetland hydrology	<i>M. Strain</i>
Understanding Federal and Ohio Wetlands Laws and Enforcement The Federal Clean Water Act Implementing/enforcing agencies - U.S. Army Corps of Engineers - U.S. Environmental Protection Agency - U.S. Department of Agriculture - Ohio Environmental Protection Agency	<i>J. Heer</i>
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	<i>C. Paschke</i>
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	<i>M. Dilley</i>

Wetlands Law and Compliance

Strongsville, OH - Tuesday, June 19, 2018



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

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Learning Objectives

You'll be able to:

- Discuss** the functions and value of wetlands for water storage, habitat and public use.
- Understand** how wetlands are delineated using wetland vegetation and soils data.
- Review** best practices in wetland preservation, restoration, creation and enhancement.
- Identify** the implementing and enforcing agencies for wetland regulations.
- Learn** about the state, local and federal processes of wetland permitting.



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- Understand** wetland vegetation and discuss the identification of wetland soils
- Explore** the Federal Clean Water Act
- Review** the wetlands permitting process
- Examine** mitigation/compensation requirements
- Learn** wetland preservation, restoration, creation and enhancement

Continuing Education Credits

Professional Engineers 6.5 PDHs	Attorneys 6.5 Ohio CLE Hours
Architects 6.5 HSW Continuing Ed. Hours 6.5 AIA HSW Learning Units	Floodplain Managers 6.5 ASFPM CECS
Landscape Architects 6.5 HSW Contact Hours 6.5 LA/CES HSW PDHs	



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Faculty

Mitchel Strain
Wetland Specialist at Smart Services, Inc., in Newark
Mr. Strain has over 30 years of experience with all aspects of 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. Mr. Strain received a BS degree in Geology with an Environmental Science emphasis from State University of New York at Cortland and an MS degree in Soil Science from University of New Hampshire.

John Heer
Of Counsel, McDonald Hopkins in Cleveland
Mr. Heer has over 26 years of experience practicing environmental law, including experience with traditional environmental issues relating to the Clean Water Act, Resource Conservation and Recovery Act (RCRA), the Clean Air Act, the Toxic Substances Control Act (TSCA), Federal Insecticide, Fungicide, the Rodenticide Act (FIFRA), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), brownfields, wetlands and stormwater. He also has experience across North America with sustainability, and with chemical management and regulation, including electronic waste recycling and management. He

is also a certified ISO 14001:2004 EHS Auditor. Mr. Heer earned his J.D. degree, *cum laude*, from Case Western Reserve University School of Law, where he earned the Lewis F. Powell, Jr. Excellence in Advocacy Award on the National Mock Trial team. He received a B.A. degree in Criminal Justice and Psychology from Indiana University.

Cynthia Paschke *Environmental Scientist at BL Companies in Green*
Ms. Paschke is an environmental aquatic biologist with 29 years of professional experience. She has extensive experience providing the wetland and ecological services performing wetland identifications and delineations using the 1987 Army Corps of Engineers Federal Manual (1987 Manual) and appropriate Regional Supplements. Since 1989, Ms. Paschke has been involved in conducting field work and project management in the areas of ecological studies and wetland services including wetland delineation, resource quality assessments, permitting, mitigation, monitoring, and regulatory coordination/ compliance. She has worked with engineers preparing designs for wetland and stream mitigation projects. She has assisted clients in obtaining approvals through the Interagency Review Team for Mitigation Banks. Additionally, Ms. Paschke has been certified as expert witness and has provided testimony in various legal matters while assisting clients with completion of corrective measures. Ms. Paschke has a Bachelor of Science degree from Allegheny College and a Masters of Education from Gannon University. At BL Companies, Ms. Paschke provides technical expertise as a principal environmental scientist in wetland and water resource permitting in the Mid-Atlantic Region for various projects including retail and commercial developments, energy such as pipeline and electric transmission lines, and public infrastructure.

Mark Dilley
Chief Scientist at MAD Scientist Associates, LLC in 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 are co-owners of a WBE, WOSB, and EDGE-certified environmental consulting firm, MAD Scientist Associates, which specializes in ecological and wetland consulting. Mr. Dilley has over 20 years of 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, a professional wetland scientist with the Society of Wetland Scientists, and a certified ecological restoration practitioner with the Society for Ecological Restoration. He is currently serving as the President of the Ohio Wetlands Association. Mr. Dilley has conducted ecological surveys in over 11 states at a variety of 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.

Registration

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How to Register	
Online: www.halfmoonseminars.org	
Phone: 715-835-5900	
Fax: 715-835-6066	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
Complete the entire form. Attach duplicates if necessary.	
Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ 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. () I need special accommodations. Please contact me.	

Seminar Information

Holiday Inn Cleveland - Strongsville
15471 Royalton Road
Strongsville, OH 44136
(440) 238-8800

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
\$279 for individual registration
\$259 for three or more registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual.

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 CD/manual package. You may also send another person to take your place.

Continuing Education Credit Information

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

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Only full attendance can be reported to the AIA/CES and LA/CES.

Engineers, architects, and landscape architects seeking continuing education credit in other states will be able to apply the hours earned at this seminar, in most cases. Refer to specific state rules to determine eligibility.

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

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

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

- Soil Engineering**
- **Introduction to Soil Engineering**
Wed., May 30, 2018, 11:00 AM - 12:30 PM CDT
 - **Design of Excavation Support Systems**
Wed., May 30, 2018, 1:00 - 2:30 PM CDT
 - **Slope Repair Techniques**
Thurs., May 31, 2018, 11:00 AM - 12:30 PM CDT
 - **Practical Approaches to Foundations and Retaining Structures**
Thurs., May 31, 2018, 1:00 - 2:30 PM CDT

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

Can't Attend? Order the CD/Manual 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 requirements of Ohio engineers, AIA members, or attorneys. Ohio architects must pass a written examination in order to claim CEUs for this product. Please allow five weeks from the seminar date for delivery.

