

Agenda

Wisconsin Wetlands

J. Larson

- Functions and values of wetlands
 - Flood storage and conveyance
 - Water quality and carbon storage
 - Wildlife habitat
 - Recreation
- Identifying wetlands
- Presence of wetland vegetation
- Identification of wetland soils
- Importance of underlying wetland hydrology
- Wisconsin wetland types

Wetland Compensatory Mitigation and Permitting

J. Larson

- Are wetlands present? Wetland determination and delineation
- Wetland permitting options: avoid, bank, in-lieu fee, PRM
- Mitigation/compensation requirements
- Wetland restoration
 - Preference for onsite and in-kind restoration
 - Hydrological considerations
 - Restoration techniques
- Wetland enhancement
 - Purposes and techniques
- Wetland preservation strategies and techniques
- Wetland creation
 - Methods, benefits and drawbacks

Wetland Mitigation Banking

J. Larson

- What is a wetland mitigation bank?
- Pros and cons of a wetland mitigation bank
- Bank site selection
- IRT and guidelines for compensatory mitigation bank design
- Bank prospectus
- Mitigation bank instrument

Understanding Federal and Wisconsin Wetlands Laws and Enforcement

R. Lewandowski

- The Federal Clean Water Act
- National Food Security Act of 1985
- Wisconsin state laws and regulations, including 2017 Wisconsin Act 183
- 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
 - Wisconsin Department of Natural Resources

Wisconsin Wetlands Law and Compliance

Madison, WI - Friday, March 8, 2019

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PO Box 278
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Learning Objectives

You'll be able to:

- Learn** about functions and values of wetlands and the importance of underlying wetland hydrology.
- Explore** wetland permitting options, wetland restoration, enhancement, preservation and creation.
- Discuss** pros and cons of wetland mitigation banking.
- Examine** federal and Wisconsin wetlands laws.
- Review** implementing/enforcing agencies.



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Continuing Education Credits

- Wisconsin Attorneys**
8.0 CLE Hours
- Professional Engineers**
6.5 PDHs
- Architects**
6.5 HSW Contact Hours
6.5 AIA HSW Learning Units
- Landscape Architects**
6.5 HSW CE Hours
6.5 LA/CES HSW PDHs



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John L. Larson, Ph.D.

Dr. Larson is a principal ecologist at Applied Ecological Services (AES) and a certified senior ecologist with the Ecological Society of America. During his 27-year tenure at AES, he has focused on wetland restoration and design, wetland construction and construction oversight, and vegetation/hydrology monitoring of mitigation sites. His experience at AES includes acting as project ecologist for The Nature Conservancy’s 7,200-acre Kankakee Sands wetland and prairie restoration in Indiana and a 575-acre wetland restoration project at Seneca Meadows, the largest landfill in the State of New York. He has also been involved in a variety of activities in over two dozen wetland mitigation banks in the Midwest, recently permitting a wetland mitigation bank in Iowa, and he is currently preparing a mitigation banking instrument for a site in Wisconsin. Dr. Larson has been a lead scientist at AES in the ecological monitoring of hundreds of wetland restoration and mitigation projects throughout the Midwest. Additional areas of expertise include ecological restoration and management planning and design, environmental review documents, floristic analysis, land cover-type mapping, threatened and endangered species investigations, and stormwater management design for flood control and water quality.

Richard J. Lewandowski Senior Counsel at Husch Blackwell

Mr. Lewandowski brings more than three decades of experience in environmental issues, particularly surface and groundwater and the remediation of contaminated properties, to Husch Blackwell. He has the unique ability to handle client matters in any of the three branches of government – the courts, administrative agencies or legislatures. Mr. Lewandowski has defended state and federal enforcement actions, including citizens’ suits, and federal criminal enforcements. He has handled cases dealing with water permitting, solid and hazardous waste regulation, Superfund cost recovery, groundwater protection, site remediation, PCB remediation, pesticide regulation, Wisconsin Statutes Chapter 30 permits (piers, other structures and waterfront development) and wetlands.

Seminar Information

Doubletree by Hilton Madison
525 West Johnson Street
Madison, WI 53703
(608) 251-5511

Tuition
\$289 for individual registration
\$269 for Three or more registrants from the same company at the same time.

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 - 4:40 pm

Continuing Education Credit Information

This seminar is open to the public. The Wisconsin Board of Bar Examiners has approved this course for 8.0 CLE hours for attorneys.

This course offers 6.5 PDHs to professional engineers, 6.5 HSW contact hours to architects, and 6.5 HSW continuing education hours to landscape architects in Wisconsin. Educators and courses are not subject to preapproval in Wisconsin.

This seminar is approved by the American Institute of Architects (Sponsor No. J885) for 6.5 HSW Learning Units 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.

Attendance will be monitored and attendance certificates will be available after the seminar for most individuals who complete the entire program. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!
An audio recording of this seminar is available for \$289. Allow four weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Additional Learning

Webinar Series

- Pumping and Piping Systems**
- **Introduction to Pumps: Operation, Principles and Calculations**
Thurs., Jan. 24, 2019, 12:00 - 2:00 PM CST
 - **Design Standards and Codes**
Thurs., Jan. 24, 2019, 2:30 - 3:30 PM CST
 - **Piping System Components, Materials and Calculations**
Fri., Jan. 25, 2019, 12:00 - 2:00 PM CST
 - **Handling Pump and Piping System Problems**
Fri., Jan. 25, 2019, 2:30 - 3:30 PM CST

- Off-Grid Master Class**
- **Off-Grid Master Class, Part I**
Wed., Feb. 6, 2019, 11:00 AM -2:15 PM CST
 - **Off-Grid Master Class, Part II**
Thurs., Feb. 7, 2019, 11:00 AM -2:15 PM CST

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

Registration

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How to Register	Registrant Information		
Online: www.halfmoonseminars.org	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____		
Phone: 715-835-5900	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____		
<table><tr><td>Fax: 715-835-6066</td><td>Code:</td></tr></table>	Fax: 715-835-6066	Code:	
Fax: 715-835-6066	Code:		
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278			
Complete the entire form. Attach duplicates if necessary.	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.		

Tuition

- () **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.
- () **I am not attending.** Please send me the self-study package for **\$289.00**.
☐ Downloadable MP3 Audio/PDF Manual
☐ CD/Manual Package
(S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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

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Expiration Date: _____ CVV2 Code: _____

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