

Agenda

Identifying Wetlands Presence of wetland vegetation Identification of wetland soils Importance of underlying wetland hydrology	<i>L. Herrera</i>
Understanding Federal and Michigan Wetlands Laws and Enforcement The Federal Clean Water Act The Endangered Species Act Natural Resources and Environmental Protection Act Right to Farm Act Implementing/enforcing agencies • U.S. Army Corps of Engineers • U.S. Environmental Protection Agency • U.S. Department of Agriculture • Michigan Department of Environmental Quality • Local municipal regulation	<i>P. Bohn</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>T. Stoepker</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 Examples of inland and coastal wetland restoration, creation, enhancement, and preservation projects	<i>B. Majka</i>

Wetland Law and Compliance
Ann Arbor, MI - Tuesday, March 27, 2018

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Learning Objectives

You'll be able to:

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



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- Learn** how wetlands are identified
- Discuss** federal and Michigan wetland laws including the Clean Water Act, the Natural Resources and Environmental Protection Act, and the Right to Farm Act
- Understand** the important functions of wetlands
- Review** the federal, state and local permitting process including the notice provisions and the review process
- Review** examples of inland and coastal wetland restoration and creation projects

Continuing Education Credits

- | | |
|---|--|
| Professional Engineers
6.5 Continuing Ed. Hours | Landscape Architects & Architects
6.5 HSW Continuing Ed. Hours |
| Floodplain Managers
6.5 ASFPM CECs | 6.5 LA CES HSW PDHs |
| | 6.5 AIA HSW Learning Units |





Larissa Herrera, PWS *Holland Engineering, Southfield*
Ms. Herrera is an aquatic biologist with over eight years of experience in natural resource assessment, including wetland delineations, environmental permitting, stream assessments, mussel/macroinvertebrate surveys and identification, and threatened and endangered species surveys. She graduated with a B.S. degree in Biology and PitE from the University of Michigan and an M.S. degree in Water Resource Science from the University of Minnesota Duluth. Ms. Herrera recently moved back to the mitten to work for Holland Engineering's Environmental Group. She holds a USFWS permit to survey and handle federally listed mussel species. Her favorite mussels are the spectaclecase and snuffbox.

Paul F. Bohn *Fausone Bohn, LLP, Northville*
Mr. Bohn is a leading practitioner in urban redevelopment, brownfield development, environmental regulatory matters, land use and construction litigation. He also provides advice to municipal governments on various land use and redevelopment projects. Mr. Bohn started Fausone Bohn in 1995. He is a 1988 graduate of the University of Oregon Law

School, where he obtained a Certificate of Completion for the Environmental Law Curriculum, and he received his (B.G.S.) undergraduate degree from the University of Michigan School of Natural Resources in 1985. Mr. Bohn is a former chair of the Michigan Bar's Natural Resources and Wetlands Committee, and he is a member of the Environmental Council and National Brownfields Association.

Timothy A. Stoepker *Dickinson Wright, LLP, Grand Rapids*
Mr. Stoepker practices in the areas of real estate, construction, and commercial and business litigation. He is experienced in real estate development and litigation; woodlands, wetlands, land use, and zoning; condemnations; the drafting of construction contracts; and litigation and arbitration of construction disputes. Author of several articles on land use issues, Mr. Stoepker is a member of the State Bar of Michigan and the American Bar Association. He is a former member of the American Arbitration Association's Construction Section Advisory Board.

Brian R. Majka, CERP
GEI Consultants of Michigan, P.C., Allendale
Mr. Majka is a professional restoration ecologist with extensive experience in business management and development, project oversight, design and implementation of wetland construction, soft shoreline engineering, prairie planting, natural areas management and best management practice (BMP) design projects with more than 17 years of experience throughout the eastern United States. Mr. Majka has a B.S. degree in Natural Resources and Environmental Science from Purdue University and is responsible for project management of ecological restoration design and implementation projects for GEI. He also actively gives presentations on various ecological restoration-oriented topics throughout the country.

Seminar Information

Courtyard by Marriott Ann Arbor
3205 Boardwalk Drive
Ann Arbor, MI 48108
(734) 995-5900

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

Each registration includes a 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
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- 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 continuing education hours to professional engineers, 6.5 CECs to certified floodplain managers, and 6.5 HSW continuing education hours to landscape architects and architects in most states, including Michigan architects and engineers. Educators and courses are not subject to pre-approval in Michigan.

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

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

Architects, engineers, and landscape architects seeking continuing 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.

This seminar offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any contractor licensing entity with a continuing education requirement.

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., Mar. 7, 2018, 11:00 AM - 2:15 PM CST

- **Solar Photovoltaic Project Design and Development, Part II**

Thurs., Mar. 8, 2018, 11:00 AM - 2:15 PM CST

Handling Ethical Issues in Professional Engineering Practice

Fri., Mar. 9, 2018, 11:00 AM - 12:00 PM CST

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

Can't Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five 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.

Registration

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How to Register	
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Tuition

() **I will be attending the live seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

() **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

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