

Agenda

Identifying Wetlands Presence of wetland vegetation Identification of wetland soils Importance of underlying wetland hydrology	<i>J. Larson, PhD</i>
Local Stream Restoration and Monitoring Projects Wildlife habitat <ul style="list-style-type: none">• Fish• Mussels• Macroinvertebrates	<i>R.P. Sliwinski</i>
Case Study Converted a township administrative campus into environmental campus by converting a floodplain to wetland with other native plantings and community garden	<i>D. Eubanks</i> <i>A. Dodd</i>
Wetland Permitting Process Clean Water Act Section 404 overview <ul style="list-style-type: none">• USACE jurisdiction• Jurisdictional determinations• Appeals process Wetland determinations and delineations <ul style="list-style-type: none">• Applicable regional supplements Permitting process <ul style="list-style-type: none">• General permit• Mitigation requirements Enforcement actions	<i>M. Machalek</i> <i>B. Cummings</i>
Focus on Benefits and Preservation of Wetlands on Agricultural Lands Identifying farmed wetlands Farmed wetlands benefits to downstream flood attenuation and water quality Preservation of wetlands typically increases floristic quality assessment and wildlife habitat use Farmed wetlands provide great opportunity for wetland mitigation projects Potential wetland mitigation banks with farmed wetlands	<i>S.W. Chu</i>

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Wetland Compliance and Permitting Lombard, IL - Friday, March 20, 2020

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Learning Objectives

You'll be able to:

- Identify** wetland vegetation and soils, and discuss the importance identifying underlying wetland hydrology.
- Describe** local stream restoration and monitoring projects that provide habitat for fish and wildlife.
- Explore** the wetland permitting process, including wetland determination, mitigation requirements and permit enforcement.
- Describe** the process for preserving wetlands on agricultural lands to improve wildlife habitat and increase native vegetation.
- Explore** a case study converting a floodplain to wetland.



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- Identify** wetland soils and vegetation
- Explore** local stream restoration projects
- Examine** the benefits of an actual floodplain-to-wetland case study
- Understand** the wetland permitting process and discuss enforcement actions
- Learn** the benefits of wetlands on agricultural lands

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Faculty

John L. Larson, Ph.D., is a principal ecologist at Applied Ecological Services (AES) and a certified senior ecologist with the Ecological Society of America. During his 28-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 in Seneca Falls, New York. He has also been involved in over two dozen wetland mitigation banks in the Midwest, has recently permitted a wetland mitigation bank in Iowa and 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. 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. He has also completed over 300 wetland delineations throughout the Midwest.

Robert P. Sliwinski, MS, CPESC, is a senior environmental resource specialist/senior wildlife biologist at Christopher B. Burke Engineering, Ltd. Mr. Sliwinski has 28 years of experience, of which 23 years has been with the Environmental Resources Department at CBBEL completing wildlife related projects that include endangered species studies, fish and wildlife surveys, wetland and natural area restoration, controlled burns and airport wildlife hazard assessments/plans/training in Illinois, Indiana and Wisconsin. He has worked on projects such as Baker's Lake Heronry Restoration in Barrington, Illinois; Clark Street Beach Bird Sanctuary in Evanston, Illinois; and Tyler Creek Stream Relocation projects in Elgin, Illinois. Additionally, Mr. Sliwinski is on the Board of Directors of the Illinois Association of Environmental Professionals and is adjunct faculty at DePaul University in Lincoln Park Chicago teaching bird identification and aquatic fauna classes.

David M. Eubanks is an ecologist and environmental planner with his own consulting practice based on 30 years of professional experience in the civic and public sectors. Since 1997, Mr. Eubanks founded and built a successful ecological restoration and consulting firm that focuses on native landscape design and shoreline erosion control using bioengineered plant solutions. In 1997 through 2000, he served as the consulting aquatic curator to launch the Aquatic Initiative for the Chicago Botanic Garden, a major effort to improve and stabilize water quality, shoreline, and aquatic plant collection. Mr. Eubanks has led numerous ecosystem projects, working with hundreds of clients across 500 acres of land and lakes owned by homeowners, government, civic land trusts, private institutions, corporations, homeowner associations and private estates. He has facilitated some major planning/restoration efforts.

Alicia Dodd is Fremont Township's recently-appointed Highway Commissioner. Ms. Dodd is known for her creative problem solving, community education and resource management. Her involvement with Fremont Township started in 2014 with the creation of a volunteer community garden built on permaculture

principles. Ms. Dodd's role on the Parks Committee resulted in converting numerous problem areas to native plants and reducing routine maintenance by using no-mow fescues. With the help of Dave Eubanks, Fremont was awarded a ComEd Green Regions Grant to transform their administrative property to an Environmental Campus, showcasing native landscaping and green infrastructure for stormwater management. Her involvement with the Highway Department has included erosion control, stream bank restoration, tackling invasive and aggressive species, responsible use of salt in winter operations, and public education on native plants for improving water quality and stormwater management.

Michael Machalek, USACE, has worked for the Chicago District Regulatory Branch for 28 years, serving as the senior enforcement officer. Working with the U.S. Attorney's Office, Mr. Machalek has accumulated approximately \$25 million in civil penalties throughout his career, and has a 100 percent conviction rate when going to trial. The bulk of the money received has gone to fund the U.S. Fish & Wildlife Foundation's Wetland Conservation Account, as well as help other non-profit agencies such as the McHenry County Conservation District and the Openlands Project to acquire property and restore natural areas. He was also the team leader on all of the field testing for the Midwest Supplement for the 1987 Wetland Delineation Manual in our region, and he helped write the manual with the national team. Mr. Machalek also serves as the local expert for Jurisdictional Determinations within the Chicago District.

Brielle Cummings, USACE, has worked with the Chicago District Regulatory Branch for three years, serving as the primary project manager for McHenry and DuPage Counties in Illinois. She holds a BS degree in Biology with GIS Technology Certification from University Wisconsin-Eau Claire, and an MPA degree in Environmental Policy and Natural Resource Management from the School of Public and Environmental Affairs at Indiana University-Bloomington. During her three years in Chicago, Ms. Cummings has reviewed and issued 444 permits, and has finalized 634 actions across all counties of the district, including Indiana. Ms. Cummings also serves as a geospatial technology point-of-contact for the Regulatory Branch and a member of the national USACE GIS emergency response team.

Stephen W. Chu, PWS, is a senior ecologist at Arcadis U.S., Inc. with over 17 years of experience managing and completing complex ecology-related projects for both public- and private-sector clients in transportation, oil and gas, renewable energy, and commercial/residential development. He is a professional wetland scientist, a certified senior ecologist with the Ecological Society of America, and a certified arborist, and he is recognized as an assured wetland delineator with the Wisconsin Department of Natural Resources. Mr. Chu's areas of expertise include wetland delineation, wetland mitigation design, wetland restoration, wetland and native area monitoring, habitat surveys, tree surveys, threatened and endangered species surveys, environmental permitting, and National Environmental Policy Act (NEPA) and Federal Energy Regulatory Commission (FERC) environmental documentation. He has extensive experience with fieldwork and permitting projects throughout the Midwest. Mr. Chu also serves on the Society of Wetland Scientist Professional Certification Program Review Panel.

Seminar Information

Hyatt Place Chicago - Lombard/Oak Brook
2340 South Fountain Square Drive
Lombard, IL 60148
(630) 932-6501

Tuition

\$299 for individual registration
\$279 for three or more registrants from the same company at the same time.

Included with your registration: Complimentary continental breakfast and printed seminar manual.

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This seminar is open to the public and offers 6.0 PDHs to professional engineers, 6.0 HSW contact hours to architects, and 6.0 HSW continuing education hours to landscape architects licensed in Illinois. Educators and courses are not subject to pre-approval in Illinois.

The Illinois MCLE Board has approved this course for 6.0 MCLE general credit hours for attorneys.

This course is approved by the American Institute of Architects Continuing Education System for 6.0 LU|HSW (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 6.0 HSW PDHs. Visit www.halfmoonseminars.org for complete AIA/CES information under this seminar listing. Only full attendance is reportable to the AIA/CES and LA/CES.

The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs. Only full attendance is reportable to the LA/CES.

The Association for State Floodplain Managers has approved this event for 6.0 CECs.

Registration

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