

Agenda

Identifying Wetlands

Presence of wetland vegetation
Identification of wetland soils
Importance of underlying wetland hydrology

D. Jacob

Understanding Federal and State Wetlands Laws and Enforcement

The Federal Clean Water Act
National Food Security Act of 1985
State and tribal laws and regulations
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
- State agencies and tribal governments

Overview of wetlands permitting process

*K. Van Bruggen/
J. Esch*

Wetlands Determinations and Delineations

Wetlands determinations and delineations
Mitigation/compensation requirements

K. Cameron-Howell

Wetland Preservation, Restoration, Creation and Enhancement

Understanding the importance of wetlands

- Flood storage and conveyance
- Pollution control and carbon storage
- Erosion control
- Recreation
- Wildlife habitat

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

D. Jacob

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Dakota Wetlands Law and Compliance

Live, Interactive Webinar - Monday, March 1, 2021

NON-PROFIT
U.S. POSTAGE PAID
EAU CLAIRE, WI
PERMIT NO. 2016

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



Learning Objectives

You'll be able to:

Understand the importance of underlying wetland hydrology.

Identify Federal and state wetlands laws and enforcing agencies.

Determine mitigation and compensation requirements.

Describe how wetlands improve flood storage, erosion control and wildlife habitat.

Discuss wetland preservation and restoration.

Explain the benefits and drawbacks of wetlands creation methods.



HalfMoon Education Online Learning

Dakota Wetlands Law and Compliance

Live, Interactive Webinar - Monday, March 1, 2021



Learn how to identify wetland vegetation and soils

Examine how wetlands are determined and delineated

Understand how the Clean Water Act and other Federal and state laws are applied and enforced

Understand the importance of wetlands

Use wetland preservation strategies and techniques

Continuing Education Credits

Professional Engineers
6.0 PDHs

Landscape Architects
6.0 HSW CE Hours

Architects
6.0 HSW CE Hours

LA CES
6.0 HSW PDHs

AIA
6.0 LU | HSW

Floodplain Managers
6.0 ASFPD CECs

North Dakota Attorneys
6.0 CLE Hours



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG



Faculty

Donna Jacob, PhD, PWS, is an environmental scientist at Houston Engineering, Inc. (HEI) with 25 years of experience in the areas of wetland ecology research and applied science. After stints in paleobotany at the Smithsonian Institution and the Field Museum of Natural History, she changed research interests to contemporary ecosystems and received her PhD degree from University College Dublin in the Republic of Ireland. She then spent ten years as an assistant/associate research professor at North Dakota State University, working as co-director of the North Dakota Metal Analysis Core (NIH) and founding the Wet Ecosystem Research Group. She supervised six students pursuing PhD degrees, four students pursuing master’s degrees, and over 100 undergraduates in the biogeochemistry laboratory. She also published 28 peer-reviewed scientific articles. In 2014, she moved to the private sector and became a wetland practitioner at Houston Engineering, Inc. She now spends her time working to protect and enhance natural areas by performing aquatic resources delineations and various ecological assessments, developing wetland banking and restoration sites, and writing NEPA documents. She is a long-time member of the Society of Wetland Scientists and received certification as a Professional Wetland Scientist (PWS) in 2015. She lives in rural Minnesota with her scientist husband and future-scientist teenage son.

Kale Van Bruggen is a shareholder at Rinke Noonan Law Firm. He concentrates his practice in water law; agriculture and environment and natural resources. He primarily represents clients on regulatory and litigation matters, including NRCS certified wetland determinations; Clean Water Act compliance; wetland banking and mitigation; compliance with U.S. Fish and Wildlife Service waterfowl production area easements; and Minnesota’s Wetland Conservation Act, and public waters, public waters wetlands, and buffer laws compliance. Mr. Van Bruggen represents public drainage authorities in North Dakota (water resource districts) and Minnesota (counties and watershed

districts) on matters pertaining to establishment, construction, and management of water drainage systems and water quality enhancement projects. He has represented farmers and landowners on many cases pertaining to water and drainage law and appeals of local government orders. He graduated from North Dakota State University with a degree in Business Administration. He received his law degree from Drake University Law School. Mr. Van Bruggen practices in Minnesota, North Dakota, and Iowa.

Jayne E. Esch is an attorney at Rinke Noonan Law Firm. She practices in South Dakota and Minnesota, specializing in agricultural and environmental litigation and criminal defense matters. She has experience representing clients in Fish and Wildlife Service wetland easement map appeals and compliance matters, South Dakota drainage permitting and civil law rule litigation, Minnesota Wetland Conservation Act compliance and reasonable use rule disputes, Endangered Species Act litigation, Clean Water Act compliance, NRCS certified wetland determinations, Farm Bill and crop insurance compliance, and general litigation and criminal defense matters. She graduated *summa cum laude* from the University of Minnesota-Twin Cities and was a member of the University of Minnesota’s Dairy Judging Team as an undergrad. She attended the University of Minnesota Law School and joined Rinke Noonan after graduating in 2017.

Karen Cameron Howell is president of Wetland Specialists, Inc. She is a wetland ecologist with a master’s degree from South Dakota State University where she studied plant science. She has over 40 years of extensive experience in environmental compliance, wetland identification and delineation, and water quality resource assessment. She has completed 3,500 wetland determinations in her career and is a certified wetlands instructor. Ms. Cameron Howell’s strong wetlands technological foundation, along with her “big picture” approach to wetlands functions and values, allows her to provide insightful response to complex issues.

Webinar Information

Log into Webinar 8:30 - 9:00 am CST	Break 12:15 - 12:45 pm CST
Morning Session 9:00 am - 12:15 pm CST	Afternoon Session 12:45 - 4:00 pm CST

Tuition
\$289 for individual registration
\$199 for three or more registrants from the same company at the same time.
Included with your registration: PDF 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

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit www.gotowebinar.com.

Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

Continuing Education Credit Information
This webinar offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to architects in North Dakota and South Dakota. It offers 6.0 HSW continuing education hours to landscape architects licensed in North Dakota and South Dakota. HalfMoon Education is an approved continuing education provider for North Dakota professional engineers. This course offers 6.0 CLE credits (0.0 Ethics) to North Dakota attorneys.

This course has been approved by the American Institute of Architects Continuing Education System 6.0 LU|HSW (Sponsor No. J885) and the Landscape Architect Continuing Education System for 6.0 HSW PDHs. Only full participation is reportable to the AIA/CES and LA CES.

The Association of State Floodplain Managers has approved this event for 6.0 CECs for certified floodplain managers.

Completion certificates will be awarded to participants who complete this event, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

**Can’t Attend?
Order the Webinar as a Self-Study Package!**
Recordings of this webinar are available for purchase. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Additional Learning

Introduction to GNSS Surveying
- Thurs., Feb. 18, 2021 | 10:30 am - 2:30 pm CST
- Fri., Feb. 19, 2021 | 10:30 am - 2:30 pm CST

Open Channel Hydraulics and Design
- Fri., Feb. 19, 2021 | 8:30 am - 4:30 pm CST

Assessing and Using Micro-Climates in Landscape Design
- Fri., Feb. 19, 2021 | 3:00 - 4:30 pm CST

Stormwater Basins and Underground Systems
- Tues., Feb. 23, 2021 | 9:00 am - 4:30 pm CST

A Deep Dive into Pests and Diseases of Trees
- Wed., Feb. 24, 2021 | 1:00 - 3:00 pm CST

Shallow Foundation Design, Construction and Repair
- Wed., Feb. 24, 2021 | 11:00 am - 2:15 pm CST
- Thurs., Feb. 25, 2021 | 11:00 am - 2:15 pm CST

Current Issues in the Practice of Geoscience
- Fri., Feb. 26, 2021 | 8:30 am - 4:30 pm CST

For more information and other online learning opportunities visit:
www.halfmoonseminars.org

Registration

Dakota Wetlands Law and Compliance
Live, Interactive Webinar - Monday, March 1, 2021

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: _____
Fax: 715-835-6066	Complete the entire form. Attach duplicates if necessary.
Code:	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
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 webinar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.

() **I am not attending.** Please send me the webinar recording:

☐ Streamable MP4 Video/PDF Manual for **\$299.00**.

☐ USB Video/PDF Manual for **\$299.00**.

Checks: Make payable to HalfMoon Education Inc.

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

Credit Card Number: _____

Expiration Date: _____ CVV2 Code: _____

Cardholder Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Email: _____