

**Association of State Wetland Managers
Soils Training Webinar Series
Webinar #4**

**Using Field Observations of
Soils Onsite in Decision Making**

October 12, 2016

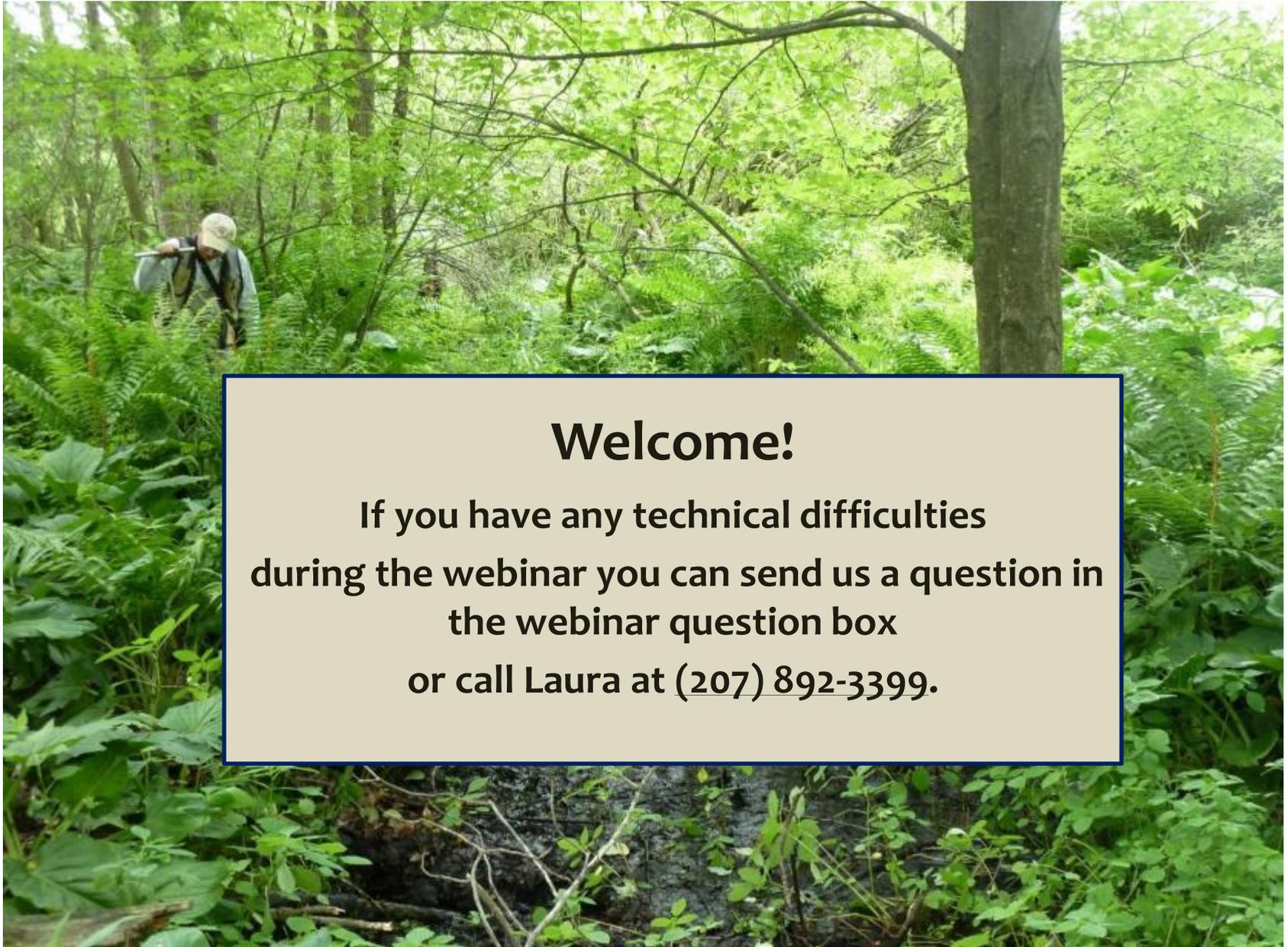
3:00 - 5:00 pm Eastern

Training Presenters

John Galbraith, Virginia Tech

W. Lee Daniels, Virginia Tech

Bruce Vasilas, University of Delaware



Welcome!

If you have any technical difficulties during the webinar you can send us a question in the webinar question box or call Laura at (207) 892-3399.

Some Tech Guidance for Today's Webinar

If you are using the telephone to listen to the webinar, please mute both your computer's microphone and speakers



To ensure GoToWebinar runs as smoothly as possible, please close any programs you are not using

In case of audio issues:

Have the .pdf document we sent you prior to the webinar ready to follow; you can still call-in using the telephone using the number and access code

A screenshot of the GoToWebinar interface. The 'Questions' panel is highlighted with a blue circle. Below it, there is a table with columns 'Question' and 'Asker'. At the bottom of the interface, there is a 'Chat' window with a text input field containing the placeholder text '[Type message here]'. A blue arrow points from the text below to the 'Send to All' button in the Questions panel.

X	Question	Asker

Send Privately Send to All

Chat

[Type message here]

Please submit your questions for the presenters via the question box.

Training Webinar Agenda

Welcome

(5 minutes)

Introduction of ASWM Training Pilot and Voluntary Online Quiz

(5 minutes)

Trainer Introductions

(5 minutes)

Three Training Presentations

(~75 minutes combined)

Q&A

(30 minutes)



Introductory Remarks from
Jeanne Christie, ASWM Executive Director
Today's Webinar Moderator



ASWM Wetland Training

A Work in Progress



- Working with a national project workgroup to help guide ASWM efforts
- Hydric soils training in response to ASWM needs assessment and restoration project findings
- Our grant is allowing us to pilot different training types, methods, tools and techniques
- Working to find the best methods and tools to deliver trainings
- Online training pilot
- Lots of considerations and learning as we go
- We welcome feedback!





Recap of Webinars to Date & ASWM Hydric Soils Training Next Steps

Content Already Covered

Webinar #1: Basics of Hydric Soils

July 13, 2016

Topics: Soil formation, horizonation versus simple processes, soil texture and structure and soil color

Webinar #2: Hydric Soil Processes

August 10, 2016

Topics: Redox reactions and redoximorphic features, hydric soils functions, The Hydric Soil Technical Standard

Hydric Soils Training Webinar #3: Landforms and Landscapes

September 14, 2016

Topics: 1) landscape and hydric soils, 2) problematic landscapes and parent materials, and 3) HGM and hydric soils.

Since the Webinar

- Sent out certificates of participation to all who requested for Webinars #1-3
- Tried out several different quiz mechanisms; piloting new tool Class Marker

Under Construction: ASWM Online Training Modules



- Post-processing webinars into online training modules available for anytime/anywhere access
- *Individual Online Module = Intro + One Presentation + Quiz*
- Qualified for documentation of participation (for use in obtaining CEUs)
- Free for ASWM Members, fee for certificates only for non-Members starting January 1, 2017

Hydric Soils Training Webinar #4



PURPOSE

Based on ASWM project training needs assessment, data from ASWM's recent studies and wetland restoration project findings

Soil Webinar Series has been designed to:

- Meet a clear training need for on-the-ground wetland professionals
- Deliver high quality soils training

Voluntary Quiz ← Asking all participants to take the quiz

- To evaluate the quality of ASWM training
- To inform ASWM's larger initiative to improve access to high quality wetland training
- To identify participants who wish to receive *documentation of attendance* in the webinar

IMPORTANT

To receive documentation of webinar attendance (for CEUs), you must:
1) participate in the live webinar presentation and 2) complete the electronic quiz.

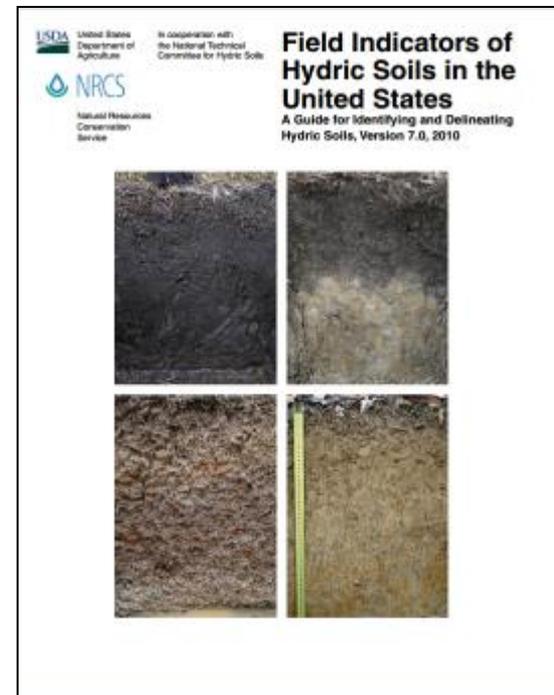
Webinar #4 Learning Objectives

Using Field Observations of Soils Onsite in Decision Making

By taking part in this training webinar, participants should be able to:

Better understand how to use field observations of soils onsite in decision making, specifically...

- How to use field indicators of hydric soils in the United States
- Hydric soils as they relate to mitigation, voluntary restoration and creation, and
- How to use field indicators to assess long-term hydrology



On-the-Ground Training Recommended

in addition to ASWM Webinars/Online Modules



Jeanne Christie Photo

- Soils training needs a field component
- Learning basics today about hydric soils processes that can be taught remotely
- ASWM encourages you to participate in field training
- ASWM has been working with our hydric soils training team to draft field training guidance
- Find a local/state/regional entity that can host field training

What's On the Voluntary Quiz?



You will take the quiz on an electronic site *called* Class Marker.

We welcome feedback on its functionality and user-friendliness.

- **Basic Information**

- First and last name
- Email address
- Certify you participated in the live webinar

- **Knowledge Questions**

- Nine soils training questions (three per webinar section)

Quiz takes
~10 minutes
to complete

The quiz will be available for 30 days.

How to Access the Online Quiz

**A link to the electronic quiz will be provided
at the end of the webinar, before the Q&A Session**

Your Options

Option A: Click on the hyperlink provided in the webinar “Comment Box”

Option B: Use the hyperlink that will be sent in follow-up GoToWebinar email

If you cannot access the Class Marker site...

Option C: You may request a PDF copy of the quiz to be emailed to you
(with directions) by contacting Laura Burchill at laura@aswm.org

Documentation of Participation



ASWM | 32 Tandberg Trail Suite 2A, Windham, ME 04092 www.aswm.org

If you both participate in the live webinar broadcast and complete the online quiz...

You will receive a certificate of participation at the email address you entered on the quiz.

Documentation will be sent immediately following completion of the quiz

You must submit documentation yourself to accrediting agency for CEUs

If you have multiple people viewing the webinar using one web link, contact Laura@aswm.org to request ASWM's webinar multi-viewer form.

How to Access Information about ASWM Soils Training Webinars and Online Modules

www.aswm.org

Online Modules will be posted on ASWM Soils Page when ready for use

Online modules developed from Webinars are planned to be available by the end of the calendar year.

The screenshot shows the website for the Association of State Wetland Managers (ASWM). The header includes the ASWM logo and the tagline "Association of State Wetland Managers - Protecting the Nation's Wetlands." The navigation menu includes links for Home, ASWM, I Am..., Wetlands, **Soils**, Wetland Programs, Watersheds, Law, News & Jobs, and Blog. The "Soils" link is circled in yellow. Below the navigation menu is a search bar and a "Main Menu" section with links for Join/Renew, Contact Us, News, Webinars, ASWM Publications, Wetlands One-Stop Mapping, Donate, and Volunteer. A "Member's Login" section includes fields for Username and Password, a "Remember Me" checkbox, and a "Log In" button. Below the login section is a "GSA Contract Holder" logo and a "Science Menu" section with links for Wetland Science, Wetlands One-Stop, Monitoring & Assessment, National Wetland Condition Assessment (NWCA), Indicators, Wetland Restoration, Planning & Design, Ecosystem Service Valuation, Restoration Costs, Hydrology, Soils, Plants, Monitoring & Performance Standards, Adaptive Management, Invasive Species, Wetlands & Climate Change, Sea Level Rise, Carbon Sequestration, Natural & Green Infrastructure, Climate Change Adaptation, Climate Change Mitigation, Climate Change Publications, and Other Resources. The "Soils" page content includes a paragraph about wetlands existing on a substrate of soil and how water sources are affected by soil movement. It also mentions that soil hydrodynamics can lead to unexpected outcomes. A photo of a person in a field is shown with the caption "Jeanne Christie Photo". Below the photo is a "Science Menu" section with links for Wetland Science, Wetlands One-Stop, Monitoring & Assessment, National Wetland Condition Assessment (NWCA), Indicators, Wetland Restoration, Planning & Design, Ecosystem Service Valuation, Restoration Costs, Hydrology, Soils, Plants, Monitoring & Performance Standards, Adaptive Management, Invasive Species, Wetlands & Climate Change, Sea Level Rise, Carbon Sequestration, Natural & Green Infrastructure, Climate Change Adaptation, Climate Change Mitigation, Climate Change Publications, and Other Resources. The "Soils" page content also includes a section for "Association of State Wetland Managers Soils Training Webinar Series" which describes a series of training webinars on hydric soils for wetland professionals. It mentions that the series is being developed by the ASWM Wetland Program Development Grant-funded project to develop and deliver high quality on-the-ground wetland professionals. Each webinar in this series will be accompanied by a short quiz at the end to assess whether participants understand the key concepts of the training. While taking the quiz is voluntary, to receive CEUs for this course (for this training webinar series only), participants must complete the assessment quiz. Regardless of whether you seek CEU documentation or not, we hope all participants will complete the quiz at the end of each webinar to help us assess the effectiveness of the presentations and the training series for our members. A "Register Now" button is visible at the bottom of the page.

Today's Trainers



John Galbraith
Associate Professor
of Crop and Soil
Environmental Sciences,
Virginia Tech



Lee Daniels
Professor of
Environmental
Soil Science
Virginia Tech
Blacksburg, Virginia



Bruce Vasilas
Professor of Agronomy
and Soil Management,
Plant and Soil Sciences
Department,
University of Delaware

Handing Over Controls to Today's First Trainer



The profile on the right is from a drained wetland adjacent to a ditch. The profile on the left is from an area not affected by the ditch. Both soils meet the requirements for indicators F3 (Depleted Matrix) and A11 (Depleted Below Dark Surface) and thus are hydric soils.

Photo and Caption Source: NRCS Field Indicators of Hydric Soils, Version 7.0, 2010