

# Wisconsin Wetlands ASSOCIATION

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Cover photo: Dr. Bob Howe

## **About Wisconsin Wetlands Association**

Wisconsin Wetlands Association is dedicated to the protection, restoration, and enjoyment of wetlands and associated ecosystems through science-based programs, education, and advocacy. We envision a state where wetlands are healthy and plentiful and support ecological and societal needs, and where citizens care for, appreciate, and interact with these natural resources. We are a non-profit, non-partisan, member-supported conservation organization.

As a leader for wetlands in Wisconsin, WWA focuses on advancing wetland conservation. Our work prioritizes providing tools and expertise to help others protect, manage, and restore wetlands. We actively engage in opportunities to advance wetlands as solutions to critical water management concerns at a watershed scale in ways that can be adapted across Wisconsin and beyond.

If you are not yet a member of Wisconsin Wetlands Association, we encourage you to show your support for wetlands and for our wetland conservation programs by becoming a member today!

Learn more and join online at wisconsinwetlands.org

## World Wetlands Day

Kamsar

February 2nd is World Wetlands Day, the annual worldwide celebration of wetlands that commemorates the signing of the Ramsar Convention on Wetlands on February 2, 1971, in the Iranian city of Ramsar. On World Wetlands Day, government agencies, non-governmental organizations, and groups of citizens around the world take action to raise public awareness

of wetland values. WWA's Wetland Science Conference is held in celebration of World Wetlands Day each year. Learn more about World Wetlands Day at **ramsar.org**.

We work with Wisconsin wetland professionals and enthusiasts to nominate worthy Wisconsin wetlands for Ramsar designation, including the Kakagon and Bad River Sloughs (designated in 2012), the Door Peninsula Coastal Wetlands

(designated in 2014), Chiwaukee Illinois Beach Lake Plain (designated in 2015), and the Lower Wisconsin River (designated in 2020).

## **Table of Contents**

Note: You can view abstracts and biographies on the event app or in a pdf format at
conference.wisconsinwetlands.org/abstracts.
Welcome and Theme Description
Program Highlights
Keynote Address: Dr. Nelson Ham
Wetlands Party
Plenary Armchair Conversation: Dr. Amanda Banet, Dr. Robert Howe, and Dr. Amy Wolf
Lightning Presentations
Poster Session
Program Schedule-at-a-Glance
Program Highlights (continued)
Roundtable Conversations
Wetlands and Climate Change
Wisconsin's Women in Wetlands
Mary Linton Wetland Poetry Session
WWA Wetland Policy Roundup
Diversity, Equity, and Inclusion for Wisconsin's Conservation Community
Wetland Invasive Species: Protecting our Natural Resources
Working Groups
Tribal Wetland Programs Working Group
The Sackett Decision: Implications in Wisconsin
Wetland Practitioners' Working Group
Workshops
Demystifying R: Developing User-Friendly Workflows and Outputs for ANOVAs and Linear Models
Harnessing the Power of AI Programs for Wetland Science and Conservation
Identification of Wisconsin's Aquatic Plants
Black Ash Plaited Basket Making
Introduction to Common Wisconsin Sedges
Field Trips
Explore the Natural Areas of the Proposed Bay of Green Bay National Estuarine Research Reserve (NERR) 10
Exploring Winter Wetland and Grassland Habitats on the Oneida Nation
The Fewless Herbarium
Acknowledgements
Moderators
Field Trip Leaders
Student Scholarship Program Sponsors and Recipients
Student Presentation Competition
Volunteers
Conference Facility Map
Exhibitors
Sponsors

## Welcome to *Great Wetlands Make Great Waters*, Wisconsin Wetlands Association's 29th Annual Wetland Science Conference

## Conference Advisory Panel

Tom Bernthal WDNR (retired)
Dan Collins Landscapes of Place
Aaron Feggestad Stantec
Sally Gallagher Jarosz WDNR
Tod Highsmith WWA Board
Mike Jones Stockbridge-Munsee
Community Ecology Department
Kelly Kearns WDNR (retired)
Tony Kuchma Oneida Nation
Lauren Leckwee Wisconsin Coastal
Management Program

Sarah Majerus Stantec
Jeff Mears Wisconsin Tribal
Conservation Advisory Council
Travis Olson University of Wisconsin
Division of Extension

Dan Salas Stantec

**Travis Schroeder** WDNR Bureau of Watershed Management

Susan Schumacher WWA Board
Paul Skawinski UW Extension Lakes
Program

Pat Trochlell WDNR (retired)
Emily Tyner UWGB/Green Bay National
Estuariane Research Reserve

Nicole Van Helden The Nature
Conservancy NE Wisconsin Office

**Dreux Watermolen** WDNR Bureau of Environmental Analysis & Sustainability

**Bobbie Webster** UWGB Coffrin Center for Biodiversity

**Amy Wolf** UWGB Natural & Applied Sciences

WWA staff supporting these advisors: Tracy Hames, Katie Beilfuss, Emily Buck, and Ginny Carlton. Welcome to the 2024 Wetland Science Conference in beautiful Green Bay, Wisconsin. The region is well known for its wetland and water resources—in fact, Green Bay is often referred to as the largest freshwater estuary in the United States, receiving input from rivers including the Fox, Peshtigo, and Oconto.

Over the last century or more, many wetlands along Green Bay and throughout the region and beyond have been lost and degraded by drainage, conversion for agriculture, and urban development. The many natural benefits provided by these wetlands—including habitat, clean water, water storage and management, and more—have also been lost, contributing to the water quality and quantity challenges facing the region today.

As we gather under the theme *Great Wetlands Make Great Waters*, we will learn about many initiatives working to protect, restore, and manage wetlands to improve the health of our rivers, Green Bay, and Lake Michigan—and the health of our communities. Great waters aren't only important for our natural resources; they also form the basis for the commercial and recreational economies that drive this region.

As we learn and network, we hope the spirit of this gathering will reenergize us for our vital work, reminding us yet again of its importance for the health of our waters and communities. Together, let us create a future where great wetlands make great waters.



## PROGRAM HIGHLIGHTS: Keynote and Wetlands Party

## **Keynote Address**

Wednesday, February 21, 9:00 am Location: Turtle & Bear Clans Ballroom Sponsored by We Energies Foundation

Wisconsin's wetlands in geologic time: How the last ice age shaped our wetland landscapes

Dr. Nelson Ham Professor, St. Norbert College

It's long been known that the Wisconsin Glaciation played a prominent role in shaping Wisconsin's wetland landscapes, with important implications for wetland delineation, hydrology, ecology, and restoration. However, recent advances in geologic mapping, dating methods, and remote sensing have dramatically increased our knowledge of the last glaciation in Wisconsin and our understanding of the specific relationships between glacial landforms and wetlands. While the pattern of glacial landforms is generally the same across much of the region, important differences influenced the style of wetlands that formed in any one area. For example, high-relief, sandy moraines in northern Wisconsin allowed for the development of deep kettle bogs. In contrast, low relief, silty-clayey moraines in eastern Wisconsin encouraged the formation of shallow wetlands similar to the famous prairie-pothole region of the Great Plains. Wisconsin's glacial deposits even preserve evidence of "fossil" wetlands that were buried by late advances of the ice sheet. This presentation will explore the relationship between glacial history, landforms, deposits, and wetlands across Wisconsin.

## **About the Speaker**



Dr. Nelson Ham has been a professor of geology and environmental science at St. Norbert College for 30 years. He earned his master's and Ph.D. degrees in geology at UW-Madison, with research on modern glacier processes in Alaska and the origins of Wisconsin's landscapes. In recent years,

he has turned his focus to the geology and environmental history of Wisconsin trout streams, especially the role of the fur trade and early logging in modifying stream hydrology with implications for stream restoration.

## Join us for a Wetlands Party!

Wednesday, February 21 6:30-9 pm Location: Throughout the conference center Sponsored by Stantec

New this year, in place of our traditional banquet, we are offering an evening of activities, networking, and fun. This event is open to all conference attendees, so join us!

A simple pizza buffet supper will start at 6:30 pm and will be served in both the Iroquois Ballroom and the Wolf Clan Ballroom. The buffet will include wood fired pizzas, hot pasta bake, mixed greens, pasta salad, garlic bread sticks, and dessert bars. A cash bar will also be set up in the Wolf Clan Ballroom and outside of the Iroquois Ballroom.

## **Activities will include:**

- A barn dance by the **Door County Folk** Alliance & Barn Dance Band on the Wolf Clan Ballroom stage from 7-9 pm. All dances are taught by a caller, and no previous experience is necessary.
- Cornhole and Kubb (a Swedish lawn game) starting at 7 pm in the foyer in front of the Three Clans Ballroom.
- A collaborative art project awaits your creative touch in the Bear Clan Ballroom
- WWA's short wetland videos will be playing on a continous loop in the Michigan Ballroom if you're looking for a quiet activity.
- Board games, cards, cribbage, and puzzles in the Iroquois Ballroom.
- Exhibits and posters in the Wolf Clan Ballroom.

## **Plenary Session Keynote**

Thursday, February 22, 8:30 am Location: Turtle & Bear Clans Ballroom Sponsored by Fund for Lake Michigan

Great wetlands: Reflections on the past, present, and future for Green Bay's coastal treasures

Drs. Amanda Banet, Bob Howe, and Amy Wolf **UW-Green Bay** 

Coastal wetlands are part of what makes the Green Bay region so important and special. Dr. Robert Howe and Dr. Amy Wolf will share their experiences as part of the community studying and caring for the region's wetlands with Dr. Amanda Banet in this interactive plenary presentation. Howe and Wolf will offer a virtual tour of some of the region's most vital coastal wetlands and share reflections on both past and future challenges and opportunities. How have past decisions and work set the stage for things happening with coastal wetlands today? How are decisions being made and work being done today setting us up for the future? What are some of the greatest challenges and opportunities with respect to wetlands in the region? What does the future hold for Wisconsin's coastal wetlands, and how can we help shape it?

## **About the Speakers**



**Amanda Banet** became the Director of the Cofrin Center for Biodiversity in June 2023. Mandy was a tenured associate professor at California State University, Chico, where she taught courses in ecology, ran a conservation biology and ecophysiology research program, monitored habitat restoration projects on the Sacramento River, and worked closely with the university's

ecological reserves. She has a bachelor's degree in biology from Indiana University, Bloomington, and a Ph.D. in biology from University of California, Riverside.



**Robert (Bob) Howe** was the founding Director of the Cofrin Center for Biodiversity and a Professor of Biology in the Department of Natural and Applied Sciences. He began his career at UW-Green Bay in 1984, teaching courses in environmental science, conservation, ecology, mammalogy, and ornithology. He maintained an active research program involving bird

population dynamics, restoration ecology, forest ecosystems, endangered species, ecological indicators, and the ecology and conservation of Great Lakes coastal wetlands. He retired in 2022.



**Amy Wolf** is a Professor of Natural and Applied Sciences at UW-Green Bay. Her work focuses on the ecology of plant-animal interactions, including studies of host-specific insects, rare plants, and Wisconsin bees. She teaches courses in wetland ecology. She earned her bachelor's and master's degrees from UW-Green Bay in biology and environmental science and policy

(respectively) and her Ph.D. in ecology from the University of California at Davis.

## **Lightning Presentations**

Thursday, February 22 9:30-10:15 am **Turtle & Bear Clans Ballroom** 

Sponsored by Wisconsin Coastal Management Program/NOAA

Immediately following the keynote presentation, stay seated for lightning presentations. Each presenter will have five slides and five minutes for their talk. Speakers in this session (in order of scheduled presentation):

- Smale, Mike Assessing the climate sensitivity and resiliency of Great Lakes coastal wetlands
- Thomforde, Stephen Canvasback ducks, wild celery, and nutrient regulation in aquatic ecosystems: Restoring keystone processes
- Williamson, Caitlin NRF's Diversity in Conservation Internship Program: Connecting students to careers in the environment
- Jablonski, Marissa A collaborative approach to wetland research
- Loutzenhiser, Samantha Life and death from above: Utilization of drones for wetland conservation
- Beardmore, Ben Assessing factors determining perception of natural beauty of Wisconsin wetlands

## Program Highlights: Poster Session

Posters will be available for viewing from 8:00 am on Wednesday through 12:00 pm on Thursday in the Wolf Clan Ballroom. The Poster Session (when authors will be present to discuss their posters) will be held Wednesday, 5:00–6:30 pm. Sponsored by GEI Consultants, Inc.

The code following the authors name is the author's poster number, which will also be displayed on the poster. Asterisks indicate the presenter is a participant in the student presentation competition.

Aleladia, Blessing* Bednard, Eva*	(P17) (P11)	Investigating the effect of invasive plants derived biochar on heavy metal adsorption Assessing biochar's influence on soil nutrients and native plants in Great Lakes coastal wetlands
Carrozzino-Lyon, Amy	(P2)	Restoring manoomin on the Green Bay west shore through conservation partnerships & community outreach
Cerroni, Kyle*	(P13)	Modified <i>Phragmites</i> biochar for phosphorus and nitrogen removal in agricultural runoff treatment systems
Cole, Stephanie	(P8)	Development of wildlife habitat restoration design plans for the Tank Farm Marsh in an urban setting
Dean, Cortney*	(P9)	Beaver dam impacts on water quality, trout populations, and biodiversity: Challenges and early evidence
Dzyacky, Spencer*	(P6)	Looking into the effects of freighter wakes on wetland distribution within the St. Marys River
Finzel, Matthew*	(P1)	Indicator species of floristic quality in Illinois wetlands: Success story or a textbook preconception?
Greymont, Olivia*	(P15)	Student led stewardship: A path to restoring wetlands through volunteer workdays
Grubisha, Lisa	(P25)	Wild rice conservation genetics in the bay of Green Bay
Heindel, Gabe	(P19)	Form meets function: A practical approach to replicating streambank inventories to reach a wider audience
Joshi, Suprima*	(P4)	Conceptual design for urban ecology restoration, community engagement, and education at Ken Euers Nature Area
Kenton, Michelle*	(P3)	Identifying native jewelweeds using leaf traits: An effort fueled by citizen science and morphometrics
Little, Amanda	(P5)	Vegetation and hydrology of two black ash (Fraxinus nigra) swamps in western Wisconsin
McCabe, Nick	(P12)	Wetland restorations serving different purposes in different landscape settings
Michaels, MacKenzie	(P14)	Removing chloride ions and heavy metals from roadside bioswales on the Illinois Tollway with woody biochar
Nieset, Julie	(P18)	Spatial strategies for wetland mitigation success: Insights from Illinois landscape analyses
Palmquist, Madeline*	(P20)	Impact of hybrid cattail ( $Typha \times glauca$ ) on waterbird diversity at Shiawassee National Wildlife Refuge
Pfost, Mark	(P16)	A new partnership to benefit Wisconsin's public land wetlands
Rademacher, Sarah	(P22)	Adaptive management of invasive hybrid cattails ( <i>Typha x glauca</i> ) at the Minnesota Landscape Arboretum
Risdal, Alex*	(P24)	Evaluating the impacts of invasive cattail and European frog-bit on northern wild rice growth and germination
Thomforde, Stephen	(P10)	Wetlands, nitrogen, and restoration
Toczydlowski, Rachel	(P23)	Leveraging genetic tools and building partnerships to conserve Hine's emerald dragonfly
Wasilewski, Ellie	(P21)	Drought effects on Chicagoland macroinvertebrates
Winowiski, Sophia*	(P7)	Impact of invasive buckthorn on the soil mycobiome surrounding wetlands

## WEDNESDAY, February 21, 9:00 am - 9:00 pm

**Breakfast (Iroquois Ballroom)** Sponsored by American Transmission Company 7:30-8:45 Plenary Session (Turtle & Bear Clans Ballroom) Sponsored by We Energies Foundation 9:00-10:20 Welcome & Opening comments Conference Keynote: Wisconsin's wetlands in geologic time: How the last ice age shaped our wetland landscapes Dr. Nelson Ham, Professor, St. Norbert College Break (Wolf Clan Ballroom) Sponsored by UW Blodiversity Conservation & Management Program 10:20-10:40 **Concurrent Sessions, Working Group, and Roundtable Conversation** 10:40-12:00 **Turtle Clan Ballroom Bear Clan Ballroom** Michigan Ontario/Huron Wetland Challenges (Invasives) **Science Informed Wetland Policy & Regulations** Ballroom **Ballroom** Moderator: Amy Wolf Moderator: Susan Schumacher **Working Group** Roundtable Sponsored by NES Ecological Services Sponsored by Emmons & Olivier Resources, Inc. Conversation **Tribal Wetland** 10:40 A biomass conundrum: Investigating biochar produced New general permit to promote hydrologic restoration of Wetlands and from harvested hybrid cattail to manage wetland diversity streams, wetlands, and floodplains | Nedland **Programs Climate Change** Ohsowski Facilitator: Mike Facilitators: Josh Jones Sulman, Craig 11:00 Reed canarygrass habitat suitability in floodplain forest Floodplain-related regulatory challenges and opportunities Annen, Jason understories of the Upper Mississippi River | Delaney for wetland and hydrologic restoration in Wisconsin By invitation only Granberg, Sarah Volkening Johnson, Rvan This session is O'Connor 11:20 Assessing the competitive abilities of invasive wetland Wisconsin USDA agricultural mitigation banking | Klimesh made possible by plants under variable light and water availabilities | Huang\* the Forest County Potawatomi Expansion of the European Frog-bit Collaborative: Mapping the impacts of the Sackett decision in Wisconsin: A Foundation risk assessment | **Bernthal** Applications in Wisconsin waterbodies | Tucker-Silva 11:40 12:00-1:30 Lunch - Provided (Iroquois Ballroom) Sponsored by Heartland Ecological Group 1:30-2:50 **Concurrent Sessions, Workshop & Roundtable Conversation Turtle Clan Ballroom Bear Clan Ballroom** Michigan Ontario/Huron **Wetland Flora and Plant Communities Caring for Green Bay-Area Wetlands Ballroom Ballroom** Workshop Moderator: Mike Jones Moderator: Emily Tyner Roundtable Sponsored by: J.F. Brennan Company, Inc. Sponsored by: BioApp Conversation Bryophytes as indicator species in Wisconsin peat-Wisconsin's Identification 1:30 Wild rice with fish: A winning recipe for restoration accumulating wetlands | Wefferling Seilheimer Women in of Wisconsin's Wetlands **Aquatic Plants** 1:50 Wetland seed mix design 101 | Fritz Using citizen-based volunteer bird monitoring to gauge the Facilitatator: \*Pre-reaistration success of Oneida habitat restoration efforts | Kuchma Sally Jarosz required\* Instructor: 2:10 Development of a rapid assessment method for Illinois Oneida bird monitoring program: Connecting community Paul Skawinski wetlands | Vembar\* science and Oneida culture, history, and language | Giese Sponsored by: **UWSP** Extension 2:30 Designation of a new National Estuarine Research Reserve Lakes for the bay of Green Bay | Tyner 2:50-3:20 Break (Wolf Clan Ballroom) Sponsored by Civil & Environmental Consultants, Inc. Concurrent Session, Symposium, Workshop (cont.), & Roundtable Conversations 3:20-5:00 **Turtle Clan Ballroom Bear Clan Ballroom** Michigan Ontario/Huron **Effective Wetland Conservation Partnerships Symposium: Restoring Green Bay** Ballroom **Ballroom** Moderator: Travis Olson Moderator: Brian Glenzinski Roundtable Roundtable Sponsored by: Sterling Site Access Solutions Sponsored by: Baxter & Woodman Conversations Conversation 3:20 Reconnecting a Lake Michigan coastal landscape: Wetland, Restoration efforts in the Lower Green Bay & Fox River Area **Mary Linton** Workshop: stream, and watershed restoration in Manitowoc Co. | Crum of Concern | Kupsky **Wetland Poetry Aquatic Plant ID** Session continued 3:40 Development of a restoration project in an urban/industrial Restoration efforts through the Natural Resource Damage setting: Tank Farm Marsh, LGBFR Area of Concern | Unke Assessment and Restoration (NRDAR) program | Soyk Ehrenberg Diversity, Equity, **WWA Policy** 4:00 Mapping natural flood management opportunities in the Enhancing wetland vegetation on the Green Bay west shore Marengo River Watershed | Rockwood Round-Up through restoration, monitoring, and outreach and Inclusion Carrozzino-Lyon for Wisconsin's Facilitators: Frin O'Brien, Jennifer Conservation 4:20 Wetland restoration for water quality along Mason Creek Immediate avian response to restoration in Lower Green Community Western Hauser Majerus Bay | Prestby Facilitator: Caitlin Williamson 4:40 Stream mitigation & wetland restorations: Leveraging local programs for landscape scale impacts Better together! | Jordahl Glenzinski Poster Session and Social (Wolf Clan Ballroom) Sponsored by GEI Consultants, Inc. 5:00-6:30 Wednesday night barn dance, casual buffet dinner, and networking activities Sponsored by Stantec (Wolf Clan, Bear Clan, Michigan, and Iroquois Ballrooms)

Join us for a wetlands party! New this year, in place of a banquet, we offer an evening of activities and fun, including a simple pizza buffet supper, cash bar,

barn dancing, corn hole, and more.

## THURSDAY, February 22, 8:30 am - 4:30 pm

7:30-8:30 Breakfast (Iroquois Ballroom) Sponsored by Hey & Associates, Inc.

8:30-10:30 Plenary Session (Turtle & Bear Clans Ballroom) Sponsored by Fund for Lake Michigan

### Welcome

Plenary Address: Great wetlands: Reflections on the past, present, and future for Green Bay's coastal treasures

Drs. Amanda Banet, Robert Howe, and Amy Wolf, UW-Green Bay

### 9:30-10:15 Lightning Round Presentations (Turtle & Bear Clans Ballroom) Sponsored by Wisconsin Coastal Management Program / NOAA

Assessing the climate sensitivity and resiliency of Great Lakes coastal wetlands | Smale

Canvasback ducks, wild celery, and nutrient regulation in aquatic ecosystems: Restoring keystone processes | **Thomforde** NRF's Diversity in Conservation Internship Program: Connecting students to careers in the environment | **Williamson** 

A collaborative approach to wetland research | Jablonski

Life and death from above: Using drones for wetland conservation | Loutzenhiser

Assessing factors determining perception of natural beauty of Wisconsin wetlands | Beardmore

## 10:15-10:40 Break (Wolf Clan Ballroom) Sponsored by raSmith

10:40-12:00 Concurrent Sessions, Roundtable Conversation, and Working Group

## **Turtle Clan Ballroom**

Wetland Wildlife Moderator: Dreux Watermolen Sponsored by: TRC

10:40 Dammed: The fur trade and its effects

on forested wetlands | **Nelson\*** 

11:00 Assessing how biotic and abiotic factors impact survival of Batrachochytrium dendrobatidis zoospores | Block\*

Weather weirding and urban amphibians: how two anurans respond to drought in Chicagoland | **Younquist** 

11:40 Restoring wetland biodiversity at the Willow Creek Preserve | Casper

### **Bear Clan Ballroom**

Symposium: Wisconsin and Minnesota Wetland Monitoring and Assessment Moderator: Sally Jarosz

Sponsored by: GAI Consultants, Inc.

Condition of wetland banks following initial establishment & active management | **Powell** 

Floristic quality benchmarks for rare and unique wetland plant communities | **O'Connor** 

New rapid floristic quality assessment tool | **Jarosz** 

Draft wetland functional assessment tool for WI and MN | **Pearce** 

### Michigan Ballroom

**Roundtable Conversation** 

Wetland Invasive Species: Protecting our Natural Resources

Facilitators: Jason Granberg, Maureen Kalscheur, Madison Johansen, Matthew Puz. and Jared Urban Ontario/Huron Ballroom

Working Group

The Sackett Decision: Implications in Wisconsin Facilitators: Erin O'Brien, Jennifer

Western Hauser

12:00-1:30 Lunch - Provided (Iroquois Ballroom) Sponsored by Wisconsin Public Service Foundation

1:30-4:30 Workshops, Working Group, and Field Trips

## Bear Clan Ballroom

**Working Group** 

**Practioners' Working Group** *Facilitatator: Kaley DuCoeur* 

Michigan Ballroom Workshop

## Black Ash Plaited Basket Making

\*\*Pre-registration required\*\*

Instructor: Liandra Skenandore

Ontario/Huron Ballroom Workshop

Introduction to Common Wisconsin Sedges

\*\*Pre-registration required\*\*

Instructors: Pat Trochlell & Steve Eggers Sponsored by: Wisconsin Flowgate & Drainage

## Field Trips (1:30-4:30 pm)

3:00

\*\*Pre-registration required\*\*

Meet at the Hotel Main Entrance at 1:20 pm to depart by bus.

Explore the natural areas of the proposed Bay of Green Bay National Estuarine Research Reserve (NERR)

Leaders: Emily Tyner, Bobbie Webster, and Amy Carrozzino-Lyon

Sponsored by Ducks Unlimited

Exploring winter wetland and grassland habitats on the Oneida Nation

Leaders: Tony Kuchma, Erin Giese, James Havel, and Lisa Lumley

Sponsored by Wisconsin's Green Fire

The Fewless Herbarium

Leader: Keir Wefferling Sponsored by Alliant Energy

## PROGRAM HIGHLIGHTS: Roundtable Conversations

## Wetlands and Climate Change

## Wednesday, February 21 10:40 am-12:00 pm

## **Ontario/Huron Ballroom**

Facilitators: Josh Sulman, Stantec; Craig Annen, Integrated Restorations, LLC; Jason Granberg, WDNR and WICCI; Sarah Johnson, Northland College and WICCI; Ryan O'Connor, WDNR and WICCI

This roundtable discussion will be an opportunity to share and learn what people are seeing, thinking, and doing related to climate change and wetlands. The roundtable will include wetland ecologists, researchers, educators, and managers from across Wisconsin with expertise in botany, hydrology, soils, invasive species, ecological restoration, natural areas, rare species, climate adaptation, and Great Lakes coastal systems. Join us for an engaging, broadranging discussion.

## Wisconsin's Women in Wetlands

## Wednesday, February 21 1:30–2:50 pm

Michigan Ballroom

Facilitator: Sally Jarosz, WDNR

Any conference attendee that currently identifies as a woman is welcome to join this discussion. Topics may include advice from women who are more seasoned, mentoring themes for women new in the field, ways to foster diversity in our work environments, and discussions about striking a work/life balance. The discussion will range from serious to more light-hearted. We hope for participants to include those who have been in the field for decades as well as those who are considering this field for their profession.

## The Mary Linton Wetland Poetry Session

## Wednesday, February 21 3:20-4:00 pm

## Michigan Ballroom

Facilitators: Alice Thompson, Mike Mossman, and Tod Highsmith

Mary Linton (1954–2021)—former WWA Board Chair, wetland scientist, and poet—founded this annual session in 2014 to provide a poetic interlude in the midst of the conference's scientific presentations. Join us to honor her memory as Tod, Mike, and Alice read poems by various authors of swamps and fens, turtles and frogs, rushes and redwings.

## WWA Wetland Policy Roundup

## Wednesday, February 21 4:00–5:00 pm

## **Ontario/Huron Ballroom**

Facilitators: Jennifer Western Hauser and Erin O'Brien, WWA

Wetlands provide important solutions to our water management problems. Join WWA's policy staff as they provide an overview of how this foundational observation has shaped WWA's current policy priorities. Learn about policy accomplishments from the past year and upcoming initiatives all focused on helping integrate wetlands as solutions. The discussion will also include the opportunity to share your ideas and concerns about important issues needing attention.

## Diversity, Equity, and Inclusion for Wisconsin's Conservation Community

## Wednesday, February 21 4:00–5:00 pm

## **Michigan Ballroom**

Facilitators: Caitlin Williamson, Natural Resources Foundation of Wisconsin

This roundtable discussion will include a brief overview about current efforts to support Wisconsin's conservation community with diversity, equity, and inclusion (DEI) efforts, followed by a discussion that will engage participants in reflecting on DEI within the context of their own organizations, and identifying actionable opportunities and considerations they can take away to advance this important work. Participants are encouraged to reflect on this topic in advance and will be invited to share as part of the group discussion. Anyone with an interest in and commitment to diversity, equity, and inclusion is welcome to participate.

## Wetland Invasive Species: Protecting our Natural Resources

## Thursday, February 22 10:40 am-12:00 pm

### **Michigan Ballroom**

Facilitators: Jason Granberg, Maureen Kalscheur, Madison Johansen, Matthew Puz, and Jared Urban, WDNR

Join WDNR experts to ask questions about how to report invasive species and how you can maintain and restore our waters and landscapes to reduce or mitigate the negative impacts of invasive species. Come share your experiences in conservation work and seek guidance from others.

## PROGRAM HIGHLIGHTS: Working Groups

## **Tribal Wetland Programs Working Group**

## **Wednesday February 21** 10:40 am-12:00 pm

Michigan Ballroom

Facilitator: Mike Jones, Stockbridge-Munsee Community Ecology Department

By invitation only.

This session is made possible by the Forest County Potawatomi Foundation.

This session will provide tribal wetlands staff with the opportunity to more formally interact, share ideas and best practices, and identify opportunities for collaboration and growth. This working group contributes to efforts to foster longterm collaboration, dialogue, and exchange of information that supports and encourages strategic, effective efforts to restore and care for wetlands in Wisconsin.

## The Sackett Decision Implications in Wisconsin

## **Thursday February 22** 10:40 am-12:00 pm

**Ontario/Huron Ballroom** 

Facilitators: Jennifer Western Hauser and Erin O'Brien, WWA

In May 2023, the US Supreme Court issued a decision in Sackett vs. EPA that significantly narrowed the scope of wetlands and headwater streams protected under the federal Clean Water Act. Recent analysis suggests the decision eliminates federal protection for nearly 90% of Wisconsin's wetlands. The purpose of the workgroup is to share information and gather insights about the current and potential implications in Wisconsin. The discussion will be informed by short presentations by invited speakers on the extent of current federal protections, how state and local policies help bridge the gap, and wetland permitting trends pre- and post-decision. We will wrap up by identifying ongoing evaluation needs and actions that may be needed to track related developments at the state and federal levels.

## Practitioners' Working Group

**Thursday February 22** 

1:30-3:00 pm **Bear Clan Ballroom** 

Facilitator: Kaley DuCoeur, Ruekert &

Mielke

This session will begin with a panel overview and then offer an opportunity for wetland practitioners—including consultants, federal, state, and local regulators, land managers, and others—to discuss current issues relevant to their daily work. The agenda will be set by the facilitator with the input of those who participated in similar sessions at previous WWA conferences.

## PROGRAM HIGHLIGHTS: Workshops

Pre-registration was required for workshops and capacity is limited. If you did not sign up for a workshop when you registered for the conference, please see the conference registration desk to find out if any workshops have space to accommodate you. If you are signed up for a workshop but can no longer attend, please let the registration desk know, as several workshops have waiting lists.

## **Demystifying R:**

## **Developing User-Friendly Workflows and Outputs for ANOVAs and Linear Models**

Tuesday, February 20 1:00 pm-4:00 pm Michigan Ballroom

Instructors: Dr. Brian Ohsowski, Madeline Palmquist, and

Alex Risdal, Loyola University Chicago

Sponsored by USDA-NRCS

## Harnessing the Power of AI Programs for Wetland **Science and Conservation**

Tuesday, February 20, 4:00-5:00 pm

**Michigan Ballroom** 

Instructors: Jason Granberg, WDNR

Sponsored by Merjent

## **Identification of Wisconsin's Aquatic Plants**

Wednesday, February 21, 1:30-4:00 pm

**Ontario/Huron Ballroom** 

Instructor: Paul Skawinski, UWSP Extension Lakes

Sponsored by UWSP Extension Lakes

## **Black Ash Plaited Basket Making**

Thursday, February 22, 1:30 –3:00 pm

Michigan Ballroom

Instructor: Liandra Skenandore, enrolled tribal citizen,

Oneida Nation of Wisconsin

## **Introduction to Common Wisconsin Sedges**

Thursday, February 22, 1:30 pm-4:30 pm

**Ontario/Huron Ballroom** 

Instructors: Pat Trochlell, The Prairie Enthusiasts, and Steve

Eggers, USACE (retired)

Sponsored by Wisconsin Flowgate + Drainage

## PROGRAM HIGHLIGHTS: Field Trips

## Thursday, February 22

Pre-registration was required for field trips and capacity is *limited.* If you did not sign up for a field trip when you registered for the conference, please see the conference registration desk to find out if any field trips have space to accommodate you. If you are signed up for a field trip but can no longer attend, please let the registration desk know.

Field trips will run in almost any weather (with the exception of hazardous conditions). Please dress warmly and wear sturdy boots. Transportation by school bus provided.

All field trips will depart from the Hotel Main Entrance; please arrive 10 minutes early to get checked-in.

## **Explore the Natural Areas of the Proposed Bay of Green Bay National Estuarine Research Reserve (NERR)**

1:30 pm-4:30 pm

Field trip leaders: Emily Tyner, Bobbie Webster, and Amy

Carrozzino-Lyon, UW-Green Bay. Sponsored by Ducks Unlimited

## **Exploring Winter Wetland and Grassland Habitats on** the Oneida Nation

1:30 pm-4:30 pm

Field trip leader: Tony Kuchma, Oneida Nation; Erin Giese, UW-Green Bay; James Havel, Robert E. Lee, Inc; and Lisa

Lumley, WDOT

Sponsored by Wisconsin's Green Fire

## The Fewless Herbarium

1:30 pm-4:30 pm

Field Trip Leaders: Keir Wefferling, Curator of Fewless

Herbarium, UW-Green Bay

Sponsored by Alliant Energy

## Thank you!

More than 100 experts and enthusiasts have contributed to the planning and content of this conference. We would like to thank all of the presenters, field trips leaders, workshop leaders, and working group leaders for sharing their expertise with the regional wetland and water resource professional community. While it is not feasible to acknowledge every contributor individually, we offer special thanks below to individuals who have made especially important contributions to this event.

## Moderators, Facilitators, Field Trip Leaders, and **Instructors**

Thank you to the following partners for moderating, instructing, leading field trips, and/or facilitating conference sessions:

Craig Annen Brian Ohsowski Amy Carrozzino-Lyon Travis Olson **Steve Eggers** Madeline Palmquist

Erin Geise Matthew Puz Brian Glenzinski Alex Risdal

Jason Granberg Susan Schumacher **Tracy Hames** Paul Skawinski James Havel Liandra Skenandore

Tod Highsmith Josh Sulman Sally Jarosz Alice Thompson Madison Johansen Pat Trochlell Sarah Johnson **Emily Tyner** Mike Jones Jared Urban

Maureen Kalscheur Dreux Watermolen Tony Kuchma **Bobbie Webster** Lisa Lumley Keir Wefferling

Mike Mossman Jennifer Western Hauser Erin O'Brien Caitlin Williamson

Ryan O'Connor **Amy Wolf** 

## **Student Presentation Competition**

Thank you to Susan Schumacher, WWA Board Member, for organizing the student presentation competition judges, to everyone who are judging the student oral and poster presentations, and to the students who are participating. Cash prizes for winners are sponsored by Westwood Professional Service and Natural Garden Natives.

## Student Scholarship Program Sponsors

Contributions made by The Nature Conservancy and Westwood Professional Services allow us to provide financial support to many students who are attending our conference. Students receiving conference scholarships are denoted with a \* in the list of volunteers below.





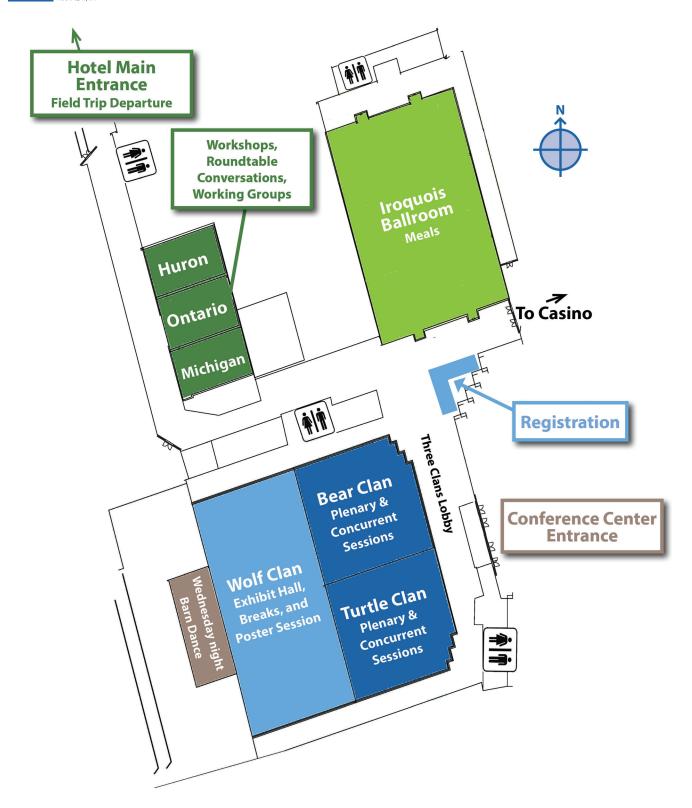
### **Volunteers**

We thank the following volunteers for assisting us with the many and varied aspects of conference logistics (\* denotes student scholarship recipient):

Blessing Aleladia\* Annie Huang\* Eva Bednard\* Suprima Joshi\* Monika Blazs Michelle Kenton\* Jason Block\* Melissa Michaud Katie Cervenka\* Mike Mossman Spencer Dzyacky\* Madeline Palmquist\*

Matthew Finzel\* Tom Pearce Lauren Gardner\* Alison Peña Mike Grimm Alex Risdal\* Kari Hagenow Paul Skawinski Lee Hengescht Mike Smale Tod Highsmith Alice Thompson Sophia Winowiski\* Kaylee Houle\*

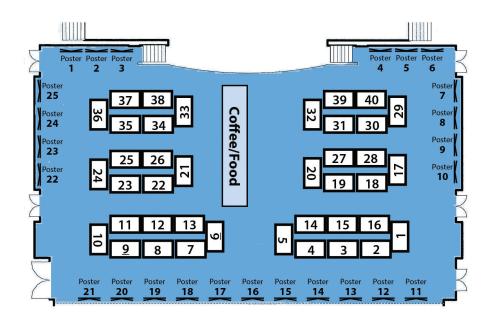




## **Exhibitors**

Please visit these exhibitors in the Wolf Clan Ballroom and thank them for supporting this conference!

Baxter & Woodman	29	NES Ecological Services	6
BioApp, LLC	20	Nutrien Solutions	9
Civil & Environmental Consultants, Inc.	16	Onset - HOBO Data Logger	11
Custom Bridges & Boardwalks	28	Pheasants Forever	35
Emmons & Olivier Resources, Inc.	17	RES	32
GAI Consultants, Inc	10	Southern Wisconsin Bird Alliance	8
GEI Consultants, Inc.	33	Stantec	1
Golden Sands RC&D Council, Inc.	31	Sterling Site Access Solutions	40
Great Lakes Commission	4	University of Wisconsin Press	23
Heartland Ecological Group	5	USDA-NRCS	36
Helena Agri-Enterprises	14	UW Sea Grant	3
Integrated Restorations, LLC	12	UW-Stevens Point Extension Lakes	30
Interfluve	27	Wisconsin Department of Natural Resources	2
Invasive Plants Association of Wisconsin	26	Wisconsin Flowgate & Drainage	39
ISG	38	Wisconsin Land + Water	22
Johnson's Nursery, Inc.	19	Wisconsin Initiative on Climate Change Impacts	15
KCI Technologies	24	Wisconsin Waterfowl Association	34
Merjent	21	Wisconsin Wetlands Association	18
Natural Garden Natives	13	Wisconsin Wildlife Federation, Inc.	25
Natural Resources Foundation of Wisconsin	7	Wisconsin's Green Fire	37



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## **Gold Sponsors**













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