



ASWM RECORDED WEBINARS

Members' Webinars

Although occasionally ASWM opens up the live broadcast of the Members' webinars to the public, recordings of these webinars are only available to ASWM Members. This is one of the many benefits available to ASWM members that are available at a very reasonable rate. For more information on the benefits of membership and how to join, [click here](#).

2020

October 28, 2020 [View recording here](#)

Wetland and Floodplain Restoration for Hazard Risk Reduction and Economic Outcomes – Patty Glick, Senior Scientist, National Wildlife Federation; Brandon Parsons, Associate Director, Rivers of Puget Sound and Columbia Basin, American Rivers; and Jessie Ritter, Director of Water Resources and Coastal Policy, National Wildlife Federation

September 30, 2020 [View recording here](#)

How Coastal Wetlands Reduce Coastal Damage During Tropical Cyclones – Richard Carson, Distinguished Professor of Economics, University of California, San Diego and Fanglin Sun, PhD, Graduate of University of California, San Diego

August 18, 2020 [View recording here](#)

How Coastal Wetlands Reduce Coastal Damage During Tropical Cyclones – Richard Carson, Distinguished Professor of Economics, University of California, San Diego and Fanglin Sun, PhD, Graduate of University of California, San Diego

July 15, 2020 [View recording here](#)

Michigan's Web-based Permitting Tools for Reporting and Public Access: A Tour of Michigan's MIWaters Data and Lessons Learned – Chad Fizzell, Wetlands GIS Specialist, Michigan Department of Environment, Great Lakes, and Energy and Anne Garwood, Michigan Department of Environment, Great Lakes, and Energy

May 27, 2020 [View recording here](#)

An Introduction to the Recovering America's Wildlife Act: Understanding Its Relationship with Wetlands – Naomi Edelson, National Wildlife Federation

Please note, this ASWM Members' Webinar recording has been made available to the public on the [Clean Water Act Webinars page](#).

March 25, 2020 [View recording here](#)

The Navigable Waters Protection Rule: Highlights & Initial Take-Aways– Royal Gardner, Professor of Law and Director of the Institute for Biodiversity Law and Policy, Stetson University College of Law; Mark Patrick McGuire, Association of Clean Water Administrators; Ken Norton, National Tribal Water Council; and Brenda Zollitsch, PhD, Senior Policy Analyst, Association of State Wetland Managers

February 26, 2020 [View recording here](#)

The Future of Restoration of Wetlands from Constructed Impoundments – Tom Biebighauser, Wetland Restoration and Training

January 29, 2020 [View recording here](#)

In Lieu Fee Mitigation for Impacts to Aquatic Resources: Current Program Instruments and Implementation Practices in the United States – Rebecca L. Kihlslinger, Environmental Law Institute and Erin Okuno, Institute of Biodiversity Law and Policy, Stetson University College of Law

2019

December 11, 2019 [View recording here](#)

Becoming a Ramsar-designated Internationally Important Body of Water: Understanding the Opportunities Created and Lessons Learned from the Niagara River Corridor's Recent Designation – Kim Diana Connolly, Professor and Vice Dean; Director of Clinical Legal Education, University at Buffalo School of Law

October 30, 2019 [View recording here](#)

Understanding California's New Wetland Rules and Implications for Wetland Management – S. Keith Garner, Sheppard Mullin

September 25, 2019 [View recording here](#)

The Value of Wetlands for Natural Disaster – Matthew McCartney, International Water Management Institute and Max Finlayson, PhD, Institute for Land, Water and Society, Charles Sturt University

July 31, 2019 [View recording here](#)

Modeling Impacts of Climate Change and Land-use Change on Prairie Pothole Wetlands – Owen McKenna, Research Ecologist, U.S. Geological Survey, Northern Prairie Wildlife Research

June 12, 2019 [View recording here](#)

Identifying Listed Species and Streamlining Section 7 Consultation for Wetland Permitting (And More): Introduction to the US Fish and Wildlife Service's Online IPaC Tool – Victoria Foster, National IPaC Program Coordinator, U.S. Fish & Wildlife Service

May 8, 2019 [View recording here](#)

Healthy Wetlands, Healthy Watersheds: Helping States and Tribes Develop Watershed-level Wetland Projects and Integrated Programs – Brenda Zollitsch, PhD, Senior Policy Analyst, Association of State Wetland Managers and Starsha Schiller, Intern, Association of State Wetland Managers

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Understanding State Agency Opportunities for Third Party Compliance Monitoring on Pipeline Projects – Mike Warner, Transcon Environmental, Inc. and Jeff Davis, Transcon Environmental, Inc.

January 30, 2019 [View recording here](#)

Wetland Restoration Contractor Selection 101: Key Considerations for Successful Wetland Restoration and Project Implementation – Tom Harcarik, Environmental Planner, Ohio Environmental Protection Agency; Neal Hess, Conservation Specialist, EnviroScience, Inc. and Broker/Owner, Conservation Realty Group, LLC; and John Watts, Resource Manager, Columbus Metro Parks

2018

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Using Living Shorelines Prioritization Tools for Wetland Improvements – Damon Yakovleff, Cumberland County Soil and Water Conservation District, Maine

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Planning Wetland Restoration at the Watershed Level – Ralph Tiner, US Fish & Wildlife Service (Retired); Juli Crane, Lake County IL Stormwater Management Commission; Glenn Westman, Lake County IL Stormwater Management Commission

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Building Wetland Water Quality Monitoring Analysis Capacity Utilizing EPA's Water Quality "eXchange" Tools and Services – Laura Shumway, US Environmental Protection Agency

October 10, 2018 [View recording here](#)

Using Avoided Land Loss as a Proxy for Reduced Storm Damages: Feasibility Study Findings for an Environmental Impact Bond in Louisiana and the Gulf – Carolyn duPont, Quantified Ventures NS Shannon Cunniff, Environmental Defense Fund

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Navigating the Clean Water Act: A Map to the Waters of the United States – Robert Parker, Olsson Associates

June 27, 2018 [View recording here](#)

Helping Wetland Restoration Decision-Making with EPA's Recovery Potential Screening Tool – Douglas Norton, Senior Environmental Scientist, US Environmental Protection Agency

May 2, 2018 [View recording here](#)

How Ohio EPA Generated Funds to Address the Loss of Ecological Function and Biological Diversity Threatening the State's Water Quality – Tom Harcarik, Ohio Environmental Protection Agency

January 31, 2018 [View recording here](#)

Mapping tidal wetlands and their losses on the U.S. West Coast: New methods, new insights – Laura Brophy, Director, Estuary Technical Group, Institute for Applied Ecology, Corvallis, Oregon, USA

2017

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How to Keep Headcuts from Working their Way Up or Downstream and Destroying Wetlands – Tom Biebighauser, Wetland Restoration and Training

November 29, 2017 [View recording here](#)

Restoration Outcomes and Reporting: An Assessment of Wetland Area Gains in Wisconsin – Tom Dahl, U.S. Fish and Wildlife Service (Retired) and Rusty Griffin, U.S. Fish and Wildlife Service Dana Pounds, Nature's Academy

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Centred Outdoors: Trading Screen Time for Wild Spaces — One Community's Approach – Robert Brooks, Pennsylvania State University and Andrea Murrell, ClearWater Conservancy

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Inspiring Lifelong Wetland and Coastal Habitat Stewards through Citizen Science – Dana Pounds, Nature's Academy– Rachel Bouvier, Principal, rbouvier consulting

June 28, 2017 [View recording here](#)

The Price of Everything and the Value of Nothing: Is Ecosystem Valuation Worth It? – Rachel Bouvier, Principal, rbouvier consulting

May 17, 2017 [View recording here](#)

Improving Wetland and Stream Mitigation Crediting – Michelle Mattson, US Army Corps of Engineers; Eric Stein, Southern California Coastal Water Research Project; Will Harman, Stream Mechanics

February 22, 2017 [View recording here](#)

Working with Wetlands to Increase Resilience: A Panel on Innovative State Program Practices – Stephanie Santell, US Environmental Protection Agency; Karen Menetrey, New Mexico, Office of Environment; John Genet, Minnesota Pollution Control Agency; Collis Adams, New Hampshire Department of Environmental Services

2016

November 30, 2016 [View recording here](#)

Innovations in State Buffer Management – Kimberly Roth, Environmental Analyst, New England Pollution Control Commission; Trish Garrigan, Healthy Watersheds and Green Infrastructure Coordinator, EPA New England; Tom Gile, Buffers and Soil Erosion Program Coordinator, Minnesota Bureau of Water and Soil Resources; Danny Bennett, Wildlife Biologist, West Virginia Department of Natural Resources

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Legal Processes for Wetland Permits – Janet Brooks, Esq., Attorney at Law

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Long Term Financial Assurances for Wetland Mitigation and Voluntary Restoration – Steve Martin, U.S. Army Corps of Engineers; Palmer Hough, U.S. Environmental Protection Agency's (EPA), Office of Wetlands, Oceans, and Watersheds; Robert Capriola, Westervelt Ecological Services; Angela Sturdevant, The Nature Conservancy's Indiana Chapter

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Ohio's VIBI-FQ: An Innovative Tool for Monitoring Natural and Mitigation Wetlands – Brian Gara, Ohio Environmental Protection Agency

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Financial Assurances and Compensatory Mitigation – Steve Martin, U.S. Army Corps of Engineers

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Capitalizing on the Forthcoming Release of the National Wetland Condition Assessment Report to Promote Your Wetland Program – Brenda Zollitsch, ASWM Policy Analyst

January 27, 2016 [View recording here](#)

Wetlands and Nutrient Uptake in Agricultural Settings – Tom Harcarik, Ohio Environmental Protection Agency, Division of Environmental and Financial Assistance; Bill Schumacher, Ohio Environmental Protection Agency, Division of Surface Water; and Eric Saas, Ohio Environmental Protection Agency, Division of Surface Water

2015

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Climate-Smart Conservation for Wetlands – Dr. Bruce A. Stein, Senior Director, Climate Adaptation and Resilience, National Wildlife Federation

November 4, 2015 [View recording here](#)

Solar Project Siting and Wetland Permitting Part 2: Panel Discussion on State Wetland Permitting Considerations – Lealdon Langley, Massachusetts DEP Wetland Program; Laura Lapierre, Vermont DEC Wetland Program; Beth Alafat, U.S. EPA Region 1; and Cori Rose, U.S. Army Corps of Engineers, New England District

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Solar Project Siting and Wetland Permitting – Roger Freeman, J.D., Solventerra

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Using Beaver as a Wetland Restoration Tool: Restoration Lessons Learned and an Introduction to the Beaver Restoration Assessment Tool (BRAT) – Joe Wheaton, Assistant Professor and Ecogeomorphology & Topographic Analysis Lab Director at Utah State University

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Findings from ASWM's New Status and Trends Report on State Wetland Programs in the United States – Brenda Zollitsch, Policy Analyst, Association of State Wetland Managers

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Assessment of Wetland Mitigation Success: Findings from a New Study on Massachusetts Wetland Replication Projects - Lisa Rhodes, Massachusetts Wetland Program, Massachusetts Department of Environmental Protection and Scott Jackson, University of Massachusetts at Amherst

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Monitoring Results from the Big Spring Run Aquatic Ecosystem Restoration Project and Prospects for Addressing Watershed Impairments Related to Legacy Sediment – Jeff Hartranft, Pennsylvania Department of Environmental Protection

2014

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Wetlands Supplement: Incorporating Wetlands into Watershed Planning – Kerry Ann Weaver, Life Scientist, US EPA Region 5

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ELI and The Nature Conservancy's Watershed Approach Handbook: Improving Outcomes and Increasing Benefits Associated with Wetland and Stream Restoration and Protection Projects – Nicholas Miller, Science Director, The Nature Conservancy in Wisconsin; Mark Smith, Deputy Director of the North America Freshwater Program, The Nature Conservancy; and Jessica Wilkinson, Senior Policy Advisor for Mitigation, The Nature Conservancy

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Ecosystem Service Valuation for Wetland Restoration: What it is, How to do it and Best Practice Recommendations – Marla Stelk, Policy Analyst, Association of State Wetland Managers

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Wetland Link International North America Webinar II: Best Practice in Designing, Building and Operation of Wetland Education Centers:

- **Summary of the Development of the Wetland Centre Handbook** – Chris Rostron, WLI/Nathalie Bays, Oak Hammock Marsh
- **Master Planning for Wetland Centers** – Marie Banks, WWT Consulting
- **Running Programs at Wetland Centers** – Katelyn Frase, Environmental Concern
- **Financial Planning and Resourcing** – Mathalie bays, Oak Hammock Marsh

June 19, 2014 [View recording here](#)

Key Findings from ASWM's National Report on State Definitions, Jurisdiction and Mitigation Requirements in State Programs for Ephemeral, Intermittent and Perennial Streams in the United States – Brenda Zollitsch, PhD, Policy Analyst, ASWM

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Status and Trends of the Prairie Pothole Region – Tom Dahl, U.S. Fish and Wildlife Service (Retired)

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Arid Land Restoration, Blue Lake Wetlands Project – Tom R. Biebighauser, Center for Wetlands and Stream Restoration

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Living Shorelines – Kevin Du Bois, Environmental Engineer, City of Norfolk, VA

2013

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Inspection and Maintenance of Wetlands – Tom Biebighauser, Wetland Restoration and Training

September 18, 2013 [View recording here](#)

Going, Going, Gone Millions of Acres of Wetlands and Fragile Land Go Under the Plow – Craig Cox, Senior Vice President for Agriculture and Natural Resources and Soren Rundquist, Landscape and Remote Sensing Analyst Environmental Working Group

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Developing a Wetland Management Plan for the White Oak Bayou Watershed – Scott Owen, Terra Aquatica Environmental, LLC

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Koontz v. St. Johns River Water Management District: What Happened and Where Do We Go From Here – Royal Gardner, Stetson University College of Law, Jan Goldman-Carter, National Wildlife Federation, Jon Kusler, Association of State Wetland Managers, Dan Siegel, Attorney General's Office, California.

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Permitting Wetland Restoration Projects – Peg Bostwick, Association of State Wetland Managers

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Designing Wetlands for Rare Amphibians – Tom Biebighauser, U.S. Forest Service

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Emerging Legal issues with Wetlands and Climate Change – Pat Parenteau, Esq., Vermont Law School and Jon Kusler, Esq. Association of State Wetland Managers

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Wetlands, Carbon and Climate Change – Dr. William J. Mitsch, Director, Everglades Wetland Research Park

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Identifying Drained Wetlands – Tom Biebighauser, U.S. Forest Service

January 29, 2013 [View recording here](#)

Wetland Mitigation and the U.S. Supreme Court: Koontz v. St. Johns River Water Management District – Royal Gardner, Stetson University College of Law and Jan Goldman-Carter, National Wildlife Federation

2012

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Coastal Blue Carbon - What's all the Fuss About? – Steve Emmett-Mattox, Restore America's Estuaries

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Water Quality Standards for Wetlands – Jeanne Christie and Jon Kusler, Association of State Wetland Managers, and Jennifer Linn, U.S. Environmental Protection Agency

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National Wetland Plant List – Dr. Bob Lichvar, U.S. Army Corps of Engineers

Hot Topics Webinars

2020

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Wetlands from the Nebraska Sandhills to Iowa's Restored Ag Lands – Steven Hall, Assistant Professor, Department of Ecology, Evolution and Organismal Biology, Iowa State University and Andrew Dzialowski, Associate Professor, Department of Integrative Biology, Oklahoma State University

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Impact of the COVID-19 Pandemic on State Wetland Programs and Early Adaptations – Brenda Zollitsch, Association of State Wetland Managers; Patrick Ryan, New Jersey Department of Environmental Protection; Stacia Bax, Missouri Department of Natural Resources; and Audra Martin, NEIWPC

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American Wetlands Month Hot Topics Webinar: Importance of Wetlands in Floodplain Function and Ecosystem Services – Dave Fowler, Association of State Floodplain Managers Brian Ritter, Nahant Marsh Education Center Shelly Morris, The Nature Conservancy

2019

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Indigenous Perspectives on Wetland Science and Management – Todd Mitchell, Swinomish Tribe and Ryan Emanuel, Ph.D. of North Carolina State University

May 29, 2019 [View recording here](#)

American Wetlands Month Webinar: Can We Keep Up with Changing Estuaries? Moving from Science to Action in San Francisco Bay – J. Letitia Grenier, PhD, San Francisco Estuary Institute

Presented at the Association of State Wetland Managers 2019 Annual State/Tribal/Federal Coordination Meeting

April 3, 2019 [View recording here](#)

Integrated Wetland and Stormwater Program – Brian Wolff, Surface Water, Operations and Enforcement Branch Chief, Indiana Department of Environmental Management

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Incorporating Wetlands into Reservoir Rehabilitation Projects for Fisheries and Other Benefits in Nebraska – Ted LaGrange, Wetland Program Manager, Nebraska Game and Parks Commission

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Addressing Barriers to Integration of Ecosystem Service Data into Wetland Management Programs – Elizabeth Byers, Senior Wetland Scientist, West Virginia Department of Environmental Protection

February 13, 2019 [View recording here](#)

Waters of the U.S.: Interpreting Geographical, State Program and Legal Impacts of Past, Current and Future Definitions – Andy Robertson, Executive Director of Geospatial Services at Saint Mary's University of Minnesota; Les Lemm, Wetlands Section Manager for the Minnesota Board of Water and Soil Resources; and Royal Gardner, Professor of Law and Director of the Institute for Biodiversity Law and Policy at Stetson University College of Law

2018

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Underwaters: Rising Seas, Chronic Floods and the Implications for US Coastal Real Estate – Kristina Dahl, Union of Concerned Scientists and Shana Udvardy, Union of Concerned Scientists

May 30, 2018 [View recording here](#)

ASWM American Wetlands Month Webinar: Measuring the Economic Benefits and Cost Effectiveness of Coastal Wetlands and Ecosystems – Michael Beck, The Nature Conservancy and University of California, Santa Cruz and Siddharth Narayan, University of California, Santa Cruz

Presented at the Association of State Wetland Managers 2018 Annual State/Tribal/Federal Coordination Meeting

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Migratory Bird Treaty – What’s Next? – Kim Connolly, University at Buffalo School of Law

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Mapping Wetland and Floodplain Functions in Vermont – Mike Kline and Laura Lapierre, Vermont Department of Environmental Conservation

April 12, 2018 [View recording here](#)

Assessing Stream Functions for Watershed Management in Oregon – Dana Hicks, Oregon Department of State Lands

April 12, 2018 [View recording here](#)

Focusing Restoration Where It Matters – Caroline Chan, Kentucky Division of Water

April 12, 2018 [View recording here](#)

Exploring Opportunities for Integrated Mapping and Functional Assessment of Riverine and Coastal Floodplains and Wetlands – Andy Robertson, Saint Mary’s University of Minnesota

February 9, 2018 [View recording here](#)

What’s next for Waters of the U.S. (WOTUS)? – Royal Gardner, Stetson University College of Law and Stephen Samuels, Retired from the U.S. Department of Justice

2017

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Partnering with Beaver to Benefit Sage Grouse and Working Lands: Restoring Emerald Islands in the Sagebrush Sea – Jeremy Maestas, Sagebrush Ecosystem Specialist, USDA-NRCS West National Technology Support Center, Portland, OR and Dr. Joe Wheaton, Professor, Watershed Sciences Department, Utah State University, Logan, UT

July 11, 2017 [View recording here](#)

How to Connect with the Public to Protect Wetlands: Findings from ASWM’s Wetland Communications Case Study Project – Marla Stelk, Policy Analyst, Association of State Wetland Mangers; Brenda Zollitsch, Policy Analyst, Association of State Wetland Mangers Ted LaGrange, Wetland Program Manager, Nebraska Game and Parks Commission

July 11, 2017 [View recording here](#)

What’s Next for Clean Water Act Jurisdiction – Jan Goldman-Carter, National Wildlife Federation; Virginia Albrecht, Hunton and Williams, LLP; Royal C. Gardner, Stetson University, College of Law

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The Basics of Wetland Plant Identification – Joe Ely, University of Central Missouri

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What's Next for Clean Water Act Jurisdiction: Maintaining - or Draining - the Swamps? The Future of the Clean Water Rule – Stephen Samuels, Retired, formerly with Department of Justice

February 9, 2017 [View recording here](#)

Nationwide Permit Rule Webinar: Low-head Dam Removal: Technical Issues and Considerations for State/Tribal/Federal Review – Serena McClain, American Rivers and James MacBroom, Milone & MacBroom

January 19, 2017 [View recording here](#)

Overview of the Final Rule on Issuance and Reissuance of the §404 Nationwide Permits – Dave Olson, U.S. Army Corps of Engineers

2016

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Wetlands & Climate Change: A Summary of Current Wetland Scientific Findings – Gillian Davies, PWS, Senior Ecological Scientist, BSC Group, Inc. and President, Society of Wetland Scientists

June 14, 2016 [View recording here](#)

Nationwide Permit Rule Webinar #2: Panel on State Processes for Reviewing the Proposed Nationwide Permits and Lessons Learned from States – Jeff Boyles and Joni Lung, Ohio Environmental Protection Agency; Tyler Brown and Steven Smailer, Delaware Department of Natural Resources and Environmental Control; Vena Jones, Tennessee Department of Environment and Conservation; Heather Preston, South Carolina Department of Health and Environmental Control

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Nationwide Permit Rule Webinar #1: The New Nationwide Permit Rule – What You Need to Know – David Olson, U.S. Army Corps of Engineers

May 18, 2016 [View recording here](#)

American Wetlands Month: What you can do to protect and restore wetlands – Kathleen Kutschenreuter, U.S. Environmental Protection Agency (EPA); Susan-Marie Stedman, NOAA Fisheries; Mitch Bergeson, U.S. Fish and Wildlife Service; Dr. Abbey Tyrna, University of Florida, IFAS Extension; Dr. Bianca Wentzell, Passaic River Institute, Montclair State University

2015

November 19, 2015 [View recording here](#)

Legal Challenges to the Clean Water Rule: Which Court? What Questions? What Timeframe? – Roy Gardner, Professor of Law and Director, Institute for Biodiversity Law and Policy and Kim Diana Connolly, Professor, Director of Clinical Legal Education, Vice Dean for Legal Skill, SUNY Buffalo New York

August 24, 2015 [View recording here](#)

Understanding Legal Challenges and Next Steps for the Clean Water Rule – Roy Gardner, Professor of Law and Director, Institute for Biodiversity Law and Policy and Kim Diana Connolly, Professor, Director of Clinical Legal Education, Vice Dean for Legal Skill, SUNY Buffalo New York

June 17, 2015 [View recording here](#)

Understanding the Final Clean Water Rule and Changes to CWA Jurisdiction Included in Senate Bill 1140 – Roy Gardner, Professor of Law and Director, Institute for Biodiversity Law and Policy and Kim Diana Connolly, Professor, Director of Clinical Legal Education, Vice Dean for Legal Skill, SUNY Buffalo New York

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American Wetlands Month National Webinar: The Ramsar Treaty/Convention on Wetlands – Barbara De Rosa-Joynt, Chief of Biodiversity, U.S. Department of State; Roy C. Gardner, Chair, Ramsar Scientific and Technical Review Panel; William J. Mitsch, Chair, US National Ramsar Committee; Chris Rostron, Head, Wetlands Link International/Member, Ramsar CEPA Oversight Panel; Lind Friar, Chief of Public Affairs, Everglades National Park, Florida; and Nathalie Bays, Manager of Interpretive Center Operations, Oak Hammock Marsh, Manitoba

2014

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Wetland Link International North America Webinar II: Best Practice in Designing, Building and Operation of Wetland Education Centers:

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Status and Trends of the Prairie Pothole Region – Tom Dahl, U.S. Fish and Wildlife Service (Retired)

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- **Nested Financing** – Amanda Punton, Oregon Department of Land Conservation and Development
- **Options for Financing Environmental Enhancement at the Local Level in Oregon** – Glenn Barnes, Environmental Finance Center at the University of North Carolina School of Government

2013

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Wetland Link International North America – Sandra Hails, CEPA Manager, Ramsar Secretariat; Cully Shelton, International Crane Foundation; Suzanne Pittenger, Selar, Environmental Concern; Nathalie Bays, Oak Hammock Marsh; and Kris Scopinich, Massachusetts Audubon Society

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National Wetland Plant List – Dr. Bob Lichvar, U.S. Army Corps of Engineers

Section 404 Assumption Project Webinar Series

2020

November 6, 2020 [View recording here](#)

Webinar #5 – Documenting Assumable Waters for Assumption for the CWA § 404 Program – Eric Metz, Oregon Department of State Lands; Randy Sounhein, Oregon Department of State Lands; Heather Mason, Florida Department of Environmental Protection; Camille Beasley, Florida Department of Environmental Protection; and Les Lemm, Minnesota Board of Water and Soil Resources – Wetland Section Manager

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Webinar #4 – Florida's Assumption Process - Planning, Decisions and Lessons Learned – Tim Rach, Florida Department of Environmental Protection and Heather Mason, Florida Department of Environmental Protection

September 23, 2020 [View recording here](#)

Webinar #3 – Mitigation Banking Considerations for States and Tribes Exploring Assumption of the CWA Section 404 Program – Joe Williams, Ecosystem Investment Partners; Les Lemm, Minnesota Board of Water and Soil Resources – Wetland Section Manager; Heather Mason, Florida Department of Environmental Protection; and Chris Tanner, Manson, Bolves, Donaldson, Varn

June 17, 2020 [View recording here](#)

Webinar #2 – Data Management for Assumption of the 404 Program – Andy Robertson, Saint Mary's University; Anne Garwood, Michigan Department of Environment, Great Lakes, and Energy; Chad Fizzell, Michigan Department of Environment, Great Lakes, and Energy; Heather Mason, Florida Department of Environmental Protection; and Eric Metz, Oregon Department of State Lands

February 18, 2020 [View recording here](#)

Webinar #1 – Assumption 101: Introduction to Assuming the CWA Section 404 Program – Kathy Hurlid, US Environmental Protection Agency; Heather Mason, Florida Department of Environmental Protection; Anne Garwood, Michigan Department of Environmental Quality; Susan Lockwood, New Jersey Department of Environmental Protection; and Brenda Zollitsch, Association of State Wetland Managers

Clean Water Act Webinars

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The Navigable Waters Protection Rule: Highlights & Initial Take-Aways— Royal Gardner, Professor of Law and Director of the Institute for Biodiversity Law and Policy, Stetson University College of Law; Mark Patrick McGuire, Association of Clean Water Administrators; Ken Norton, National Tribal Water Council; and Brenda Zollitsch, PhD, Senior Policy Analyst, Association of State Wetland Managers

2018

April 11, 2018 [View recording here](#)

In the Courts - What's next for Waters of the United States Rule? – Kim Diana Connolly, University at Buffalo School of Law and Steve Johnson, Mercer University School of Law

February 9, 2018 [View recording here](#)

What's next for Waters of the U.S. (WOTUS)? – Royal Gardner, Stetson University College of Law and Stephen Samuels, Retired from the U.S. Department of Justice

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What's Next for Clean Water Act Jurisdiction – Jan Goldman-Carter, National Wildlife Federation; Virginia Albrecht, Hunton and Williams, LLP; and Royal C. Gardner, Stetson University, College of Law

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Understanding Legal Challenges and Next Steps for the Clean Water Rule – Kim Diana Connolly, Professor, Director of Clinical Legal Education, Vice Dean for Legal Skills, SUNY Buffalo Law School; and Roy Gardner, Professor of Law and Director, Institute for Biodiversity Law and Policy, Stetson University College of Law

June 17, 2015 [View recording here](#)

Understanding the Final Clean Water Rule and Changes to CWA Jurisdiction Included in Senate Bill 1140 – Roy Gardner, Professor of Law and Director, Institute for Biodiversity Law and Policy, Stetson University College of Law and Kim Diana Connolly, Professor, Director of Clinical Legal Education, Vice Dean for Legal Skills, SUNY Buffalo Law School

Wetland Regulatory Capacity Building Project Webinar

2020

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Improving Enforcement in Wetland Regulatory Programs – Yvonne Vallette, U.S. Environmental Protection Agency, Region 10; Stacia Bax, Missouri Department of Natural Resources; Sara Slater, Oregon Department of Environmental Quality

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Conducting State/Tribal Review of the 2020 Nationwide Permits – David Olson, U.S. Army Corps of Engineers; Panel of State Wetland Program Managers – Dave Davis, Virginia Department of Environmental Quality and Richard Mraz, Washington State Department of Ecology

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Communications Strategies and Lessons Learned for Wetland Programs – Alison Rogerson, Delaware Department of Natural Resources and Environmental Control; Laura Lapiere, Vermont Department of Environmental Conservation; and Mary Ann Tilton, New Hampshire Department of Environmental Services

June 24, 2020 [View recording here](#)

Building Capacity to Protect and Manage Wetlands through the Development of State Wetland Association – Erin O'Brien, Wisconsin Wetlands Association; Rick Savage, Carolina Wetlands Association; and Kim Matthews, Carolina Wetlands Association

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Sharing EPA's "Refresh" to the Enhancing State and Tribal Programs (ESTP) Framework – Rebecca Dils, EPA Office of Wetlands, Oceans and Watersheds; Michael McDavit, EPA Office of Wetlands, Oceans and Watersheds; Kerryann Weaver, EPA Region 5; Yvonne Vallette, EPA Region 10; and Eliodora Chamberlain, EPA Region 7

February 21, 2020 [View recording here](#)

Introduction to Wetland Program Plans (WPPs) – Yvonne Vallette, U.S. Environmental Protection Agency, Region 7; Stacia Bax, Missouri Department of Natural Resources; Richard Mraz, Washington State Department of Ecology; Brenda Zollitsch, Association of State Wetland Managers

EPA Region 10 Tribal Wetland Training Webinars

2019

June 25, 2019 [View recording here](#)

Balancing Tribal Economic Development, Sustainable Cultural Uses and Wetland/Aquatic Resource Protection and Restoration – Tom Elliott, Biologist for the Yakama Nation Wildlife Program; Allison Warner, Wetland Ecologist/Wetland Program Coordinator for The Tulalip Tribes at Quil Ceda Village; and Kara Kuhlman, Water Resources Manager for the Lummi Nation

2018

November 6, 2018 [View recording here](#)

Cultural Values Based Planning for Integrated Wetland Management on a Watershed or Reservation Scale – Jon Hall, Tulalip Tribes of Washington; Tom Elliott, Yakama Nation; and Andy Robertson, GeoSpatial Services at Saint Mary's University of Minnesota

Beaver Restoration Webinar Series

2020

October 13, 2020 [View recording here](#)

Webinar #3: Case Studies of Long-term Changes from Beaver Restoration Activities – Ellen Wohl, Colorado State University and Nick Bouwes, Utah State University

September 24, 2020 [View recording here](#)

Webinar #2: Identifying Where to Place Beavers and When to Use Beaver Mimicry for Low Tech Restoration – Joe Wheaton, Associate Professor, Utah State University

March 11, 2020 [View recording here](#)

Webinar #1: The History of Beaver and the Ecosystem Services They Provide – Kent Sorenson, Habitat Restoration Biologist, Utah Division of Wildlife Resources and Amy Chadwick, Lead Ecologist, Great West Engineering

Natural Floodplain Functions Alliance Webinars

2020

May 12, 2020 [View recording here](#)

Disaster Recovery Lessons Learned: Achieving the Best Possible Outcomes for our Communities and Stream Corridors – Jeffrey Sickles, Engenuity Engineering Solutions; Katie Jagt, Watershed Science and Design; Michael Blazewicz, Round River Design

March 10, 2020 [View recording here](#)

The Geography of Risk – Gilbert M. Gaul, Author

2019

November 18, 2019 [View recording here](#)

Focusing on Pre-Event Resilience Building—The Zurich Flood Resilience Alliance Approach – Michael Szönyi, MSc, MAS Natural Hazards Management ETH, Flood Resilience Program Lead

October 15, 2019 [View recording here](#)

Engineering with Nature for Flood Risk Management – Todd Bridges, PhD, U.S. Army Corps of Engineers

June 4, 2019 [View recording here](#)

Reducing Flood Risk and Restoring Ecosystems through Science and Planning – Kris Johnson, PhD, Associate Director for Science & Planning, North America Agriculture Program, The Nature Conservancy; Christine Shepard, PhD, Director of Science, Gulf of Mexico Program, The Nature Conservancy; and Lily Verdone, Director of Freshwater and Marine, The Nature Conservancy

May 14, 2019 [View recording here](#)

Floodplains and Green Infrastructure as Tools for Hazard Mitigation: Barriers and Funding Opportunities – Rowan Schmidt, Program Director, Earth Economics and Brad Gordon, Lapham Fellow at American Rivers

2018

September 18, 2018 [View recording here](#)

Green Infrastructure Case Studies: How to Successfully Lower Risk in Your Community – Jennifer Henaghan, AICP, Deputy Research Director and Manager of the Green Communities Center at the American Planning Association; Dr. Tom Ballesterio, Associate Professor of Civil and Environmental Engineering, University of New Hampshire (UNH) and Director of the UNH Stormwater Center; and Jared Soares, Research Analyst, Earth Economics

July 10, 2018 [View recording here](#)

Floodplain Policies for Flood Survivors - A Conversation – Sarah Wilkins, Thriving Earth Exchange, American Geophysical Union; Virginia Wasserberg, Stop the Flooding NOW!, Virginia Beach, VA; Bob Jennings, Stop the Flooding Now, Virginia Beach, VA; Lori Burns, RainReady Chatham, Chicago, IL; Gabriella Velardi-Ward, Coalition for Wetlands and Forests, Staten Island, NY; and Ed Browne, Residents Against Flooding, Houston, TX

May 15, 2018 [View recording here](#)

Wetlands by Design: A watershed approach for Wisconsin – Tom Bernthal, Wisconsin Department of Natural Resources and Nick Miller, The Nature Conservancy

March 6, 2018 [View recording here](#)

Green Infrastructure Resources for Coastal Flood Risk Management – Maria Honeycutt, Ph.D., NOAA's Office for Coastal Management; Lauren Long, The Baldwin Group, NOAA's Office of Coastal Management; and Tashya Allen, The Baldwin Group, NOAA's Office of Coastal Management

January 9, 2018 [View recording here](#)

Reaching Across the Border to Improve Water Supplies for People and Nature: The United States, Mexico, and the Colorado River – Jennifer Pitt, Audubon

2017

December 19, 2017 [View recording here](#)

Towards Resilient and Sustainable Floodplains – Larry Roth, Arcadis

November 30, 2017 [View recording here](#)

Minnesota's Overall and Watershed Approach to Flood Risk Reduction & Protection of Lakes & Streams – Ceil Strauss, State Floodplain Manager, Minnesota Department of Natural Resource

October 24, 2017 [View recording here](#)

The Iowa Watershed Approach: A New Paradigm for Flood Resilience – Allen Bonini, Iowa Department of Natural Resources; Dr. Craig Just, University of Iowa; Melissa Miller, Iowa Water Center; Breanna Shea, Iowa Flood Center, University of Iowa; Jake Hansen, Iowa Department of Agriculture and Land Stewardship- Division of Soil Conservation and Water Quality; and Jessica Turba, Disaster Recovery Operations Bureau of Iowa Homeland Security and Emergency Management

July 25, 2017 [View recording here](#)

Integrated Stream and Wetland Restoration: A watershed approach to improved water quality on the landscape – Dr. Curtis Richardson, Duke University Wetland Center

May 18, 2017 [View recording here](#)

The Naturally Resilient Communities Project: Siting Guide and Case Studies Mainstreaming of Natural Infrastructure to Address Coastal and Riverine Flooding – Nathan Woiwode, Risk Reduction and Resilience Project Manager, The Nature Conservancy

February 21, 2017 [View recording here](#)

The Value of Nature: Practical Applications for Managers – Elizabeth Schuster, Environmental Economist, The Nature Conservancy

2016

December 6, 2016 [View recording here](#)

Comprehensive Local Planning and Programs: Charlotte-Mecklenburg's Approach – Tim Trautman, PE, CFM, Charlotte-Mecklenburg Storm Water Services, Engineering & Mitigation Program Manager

October 4, 2016 [View recording here](#)

October Federal Update: The FEMA Proposed Rule for FFRMS and Update on WRDA – Kim Matthews, RTI International; Jason Doll, Moffatt & Nichol; Kristine Cherry, Governors' South Atlantic Alliance (GSAA)

September 1, 2016 [View recording here](#)

Funding for Floodplain Restoration: Breaking Down Incentives to Develop Floodplains & Recent FEMA Policy Updates – Zachary Christin, Project Director, Earth Economics

June 7, 2016 [View recording here](#)

Living Shorelines: Lessons Learned and New Opportunities – Suzanne Sime, Strategic Programs Manager, Restore America's Estuaries; Bill Sapp, Senior Attorney, Southern Environmental Law Center; Tracy Skrabal, Southeast Regional Manager and Coastal Scientist, North Carolina Coastal Federation; Lee Anne Wilde, Living Shorelines Program Managers, Galveston Bay Foundation

April 28, 2016 [View recording here](#)

The Nature Conservancy's Emiquon: Restoring Functional Floodplain for Nature & People – K. Douglas Blodgett, Director of River Conservation, Illinois Chapter of The Nature Conservancy

March 1, 2016 [View recording here](#)

The Ecology, Engineering & Economics of Natural Coastal Defenses – Mike Beck, The Nature Conservancy and Adjunct Professor in Ocean Sciences, University of California Santa Cruz

2015

November 3, 2015 [View recording here](#)

An Introduction to the Marsh Adaptation Strategy Tool (MAST) – Dr. Samuel Merrill, GEI Consultants, Inc.

September 8, 2015 [View recording here](#)

Stream-Wetland Restoration – Will Harmon, Stream Mechanics and Matt Daniels, River Design Group, Inc.

July 21, 2015 [View recording here](#)

Managing Water Where It Falls: Green Infrastructure in Milwaukee, Wisconsin – Kevin L. Shafer, Milwaukee Metropolitan Sewerage District (MMSD), Executive Director

May 5, 2015 [View recording here](#)

Square Peg, Round Hole –Maximizing Conservation in a Flood-Insurance Construct – Bonnie Shorin, NOAA

March 3, 2015 [View recording here](#)

EPA Adaptation Workbook: Lessons Learned in San Juan Bay, Puerto Rico – Michael Craghan, Climate Ready Estuaries Program, U.S. EPA

January 6, 2015 [View recording here](#)

Rooftops to Rivers: Lessons Learned from Tulsa, Oklahoma’s Successful Floodplain Management Program – Ronald D. Flanagan, CFM & Principal Planner, R.D. Flanagan & Associates, LLC

2014

November 17, 2014 [View recording here](#)

The Impact of Wetland Drainage on the Hydrology of a Northern Prairie Watershed – Dr. John Pomeroy, Centre for Hydrology, University of Saskatchewan

September 8, 2014 [View recording here](#)

ASCE Report on How to Address our Systemic Flood Problems – David Fowler, Senior Project Manager, Milwaukee Metropolitan Sewerage District

July 14, 2014 [View recording here](#)

Preventing Flood Disasters from Becoming Disastrous – Brian Varrella, Chair, Colorado Association of Stormwater and Floodplain Managers

May 12, 2014 [View recording here](#)

Restoration of the Mississippi Delta in a Post-BP Oil Spill Environment – Estelle Robichaux, Restoration Project Analyst, Mississippi River Delta Restoration Team and Whit Remer, Senior Policy Analyst & Attorney, Mississippi River Delta Restoration Team

March 10, 2014 [View recording here](#)

Beyond the 100-year floodplain: Experiences in European floodplains under the Flood Directive – G. Mathias Kondolf, Professor of Environmental Planning, University of California, Berkeley and Anna Serra-Llobet, Visiting Scholar Institute of Urban and Regional Development, University of California, Berkeley

January 13, 2014 [View recording here](#)

- **Part 1: New Developments in River Valley Floodplain Mapping: A Survey of FLDPLN Model Applications** – Jude Kastens, Kansas Applied Remote Sensing Program, Kansas Biological Survey
- **Part 2: TWIP and FLDPLN Applications for Watershed Restoration Activities** – Jeff Neel, Kansas Alliance for Wetlands and Streams

2013

November 18, 2013 [View recording here](#)

Moving toward Floodplain Restoration at Scale on the Illinois River and Upper Mississippi Basin: Valuing Ecosystem Services, Demonstrating Flood Reduction, and Policy Implications – K. Douglas Blodgett, Director of River Conservation, The Nature Conservancy in Illinois and Charles E. Theiling, Large River Ecologist, US Army Corps of Engineers Rock Island District.

September 9, 2013 [View recording here](#)

Reforming Federal Support for Risky Development – David Conrad, Consultant, Water Resources Policy, and Edward A. Thomas, Esq. President, Natural Hazard Mitigation Association

June 17, 2013 [View recording here](#)

Informing Flood Mitigation with Ecosystem Service Valuation: An Introduction to the Ecosystem Valuation Toolkit – Zac Christin, Earth Economics

April 8, 2013 [View recording here](#)

Mapping Floodplains in Iowa Part II – Kris Johnson and Jan Slaats, The Nature Conservancy

February 11, 2013 [View recording here](#).

Iowa State Floodplain Mapping Program – Nathan Young, Iowa Flood Center

2012

December 10, 2012 [View recording here](#)

Coastal Adaptation to Sea Level Rise Tool (COAST) – Sam Merrill, New England Environmental Finance Center

October 9, 2012 [View recording here](#)

Thinking Outside the Box Culvert Understanding Flood Management and Natural Floodplain Mitigation – David C. Fowler CFM

July 12, 2012 [View recording here](#)

- **Why Wetland Managers Should Care about Floodplains** – Lynda Saul, Montana Department of Environmental Quality
[View recording here.](#)
- **Summary and Overview of the reauthorized National Flood Insurance Program** – Chad Berginnis, Executive Director, Association of State Floodplain Managers

Wetland Mapping Consortium Webinars

2020

October 7, 2020 [View recording here](#)

Automating the Detection of Disturbances to Aquatic Resources – Melanie Vanderhoof, U.S. Geological Survey, Geoscience and Environmental Change Science Center

February 12, 2020 [View recording here](#)

NWI Unfinished Business: The Current State of Wetland Mapping in Alaska – Sydney Thielke, Regional Wetlands Coordinator, U.S. Fish and Wildlife Service, Alaska Region and Andy Robertson, Director, GeoSpatial Services, Saint Mary's University of Minnesota

2019

December 3, 2019 [View recording here](#)

NWI Data in Support of Conservation Efforts and Habitat Modeling – Rusty Griffin, U.S. Fish and Wildlife Service

November 13, 2019 [View recording here](#)

Wetland Inventory of Canada Using Optical and RADAR EO Data and Google Earth Cloud Computing – Bahram Salehi, PhD, PEng. Assistant Professor of Remote Sensing Engineering, State U of New York, College of Environmental Science and Forestry

October 23, 2019 [View recording here](#)

National Land Cover Database 2016, General Overview and Applications to Wetland Assessment – Dr. Collin Homer, U.S. Geological Survey and Dr. George Xian, U.S. Geological Survey

October 2, 2019 [View recording here](#)

National Riparian Areas Base Map: Development & Applications – Sinan Abood, U.S. Forest Service; Daniel Rosenbaum, U.S. Environmental Protection Agency; and Rebecca Lilja, U.S. Forest Service

September 4, 2019 [View recording here](#)

Lessons Learned from the Minnesota NWI Update – Steve Kloiber, Minnesota Department of Natural Resources; Robb Macleod, Ducks Unlimited; and Keven Stark, Saint Mary's University of Minnesota

August 21, 2019 [View recording here](#)

Mapping Wetland Inundation Dynamics and Wetland Change using Google Earth Engine – Qiusheng Wu, PhD, University of Tennessee and Melanie Vanderhoof, PhD, U.S. Geological Survey

June 20, 2019 [View recording here](#)

Mapping Thirty Years of Wetland Surface Water Dynamics Using Landsat Satellite Imagery: Implications for Climate Change and Species Management – Meghan Halabisky, Ph.D., Lead Scientist with Conservation Science Partners and Amanda Kissel, Ph.D., Lead Scientist with Conservation Science Partners

2017

December 6, 2017 [View recording here](#)

Mapping Innovations at the Michigan DEQ: New approaches, tools and technologies – Chad Fizzell, Michigan Department of Environmental Quality; and Jeremy Jones, Michigan Department of Environmental Quality

October 18, 2017 [View recording here](#)

Developing a Spatially Enabled Wetland Program Website to Communicate the Importance of Tribal Land Management Data – Andy Robertson, Executive Director, GeoSpatial Services, Saint Mary's University of Minnesota

July 19, 2017 [View recording here](#)

Mapping Wetland Inundation Dynamics Using Multi-Source Satellite Data – Ben DeVries, Post-Doctoral Research Associate, Department of Geographical Sciences, University of Maryland

April 12, 2017 [View recording here](#)

Moving Wetland Restoration into Recommendations into Action: New Mapping/Monitoring Program Tends

- **National Wetlands Inventory Wetland Mapping Targeting Tool and Data Use Trends** – Megan Lang, U.S. Fish and Wildlife Service
- **A Collaborative Approach to Establishing Wetland Management Priorities in Northcentral New Mexico** – Andy Robertson, Saint Mary's University
- **Wetland Functional Assessment in West Virginia** – Elizabeth Byers, West Virginia Department of Environmental Protection

February 15, 2017 [View recording here](#)

Recent Updates to the EnviroAtlas Tool: Mapping Ecosystem Goods and Services – Anne Neale, EnviroAtlas Project Lead, U.S. Environmental Protection Agency

2016

December 21, 2016 [View recording here](#)

Maps of Potential Wetland Extent for Selected Streams in Indiana – Kathleen Fowler, U.S. Geological Survey

October 5, 2016 [View recording here](#)

Mapping Coastal Storm Surge Flooding and Marsh Structure – Elijah Ramsey III, U.S. Geological Survey and Amina Rangoonwala, U.S. Geological Survey

July 20, 2016 [View recording here](#)

Uses of the Soil and Water Assessment Tool (SWAT) – Grey Evenson, PhD, Post-Doctoral Fellow, Virginia Tech and Visiting Scientist, U.S. EPA; Sangchul Lee, PhD Candidate, University of Maryland; Greg McCarty, PhD, Research Soil Scientist, USD

May 24, 2016 [View recording here](#)

Defining Wetland Gems in North Central New Mexico – Andy Robertson, Saint Mary's University of Minnesota and Kevin Benck - Saint Mary's University of Minnesota

March 30, 2016 [View recording here](#)

Wetland Functional Assessments for Watershed Planning & Decision Support – Andy Robertson, Saint Mary's University of Minnesota

March 30, 2016 [View recording here](#)

Working towards an Automated Wetlands Mapping Process: Successes, Failures, and Potential for the Future – Robb McLeod, Ducks Unlimited

February 17, 2016 [View recording here](#)

Updated Data Collection Procedures and Requirements for Meeting FGDC Wetland Mapping Standards – Rusty Griffin, U.S. Fish and Wildlife Service's, National Standards and Support Team

January 28, 2016 [View recording here](#)

Changes in the FGDC Wetland Classification Standard – Cowardin 2.0 – Rusty Griffin, U.S. Fish and Wildlife Service's, National Standards and Support Team

2015

December 9, 2015 [View recording here](#)

NWI Standards & Dataset: A Cornerstone for Decision-Support – Mitch Bergeson, U.S. Fish & Wildlife Service; Andy Robertson, Saint Mary's University; and Megan Lang, University of Maryland

October 21, 2015 [View recording here](#)

From Fen to Floodplain: Steps in a Successful Landscape Level Wetland Inventory in Northeastern New Mexico – Andy Robertson, Saint Mary's University and Maryann McGraw, New Mexico Environment Department

September 16, 2015 [View recording here](#)

Part 2 – The Florida Wetlands Integrity Dataset: Analysis of nonrenewable energy data and construction of graph-theoretic networks to quantify landscape integrity – John Humphreys and Amir Mahjoor, Florida Department of Environmental Protection

July 15, 2015 [View recording here](#)

Part 1 - The Florida Wetlands Integrity Dataset: Using soils data, topographic indices, and Bayesian probability to identify wetlands – John Humphreys and Amir Mahjoor, Florida Department of Environmental Protection

May 20, 2015 [View recording here](#)

Minnesota's "Restoration Wetland Prioritization Tool" – Mark Gernes, Minnesota Pollution Control Agency

March 25, 2015 [View recording here](#)

WMC Workshop: "Assessing, Analyzing and Communicating Digital Wetland Data to Stakeholders for Decision-making"

- **Wetlands Spatial Data 101: How to Access Data on NWI Mapper and Other Resources** – Mitch Bergeson, USFWS, National Standards Support Team

February 18, 2015 [View recording here](#)

Marsh Analysis and Planning Tool Incorporating Tides and Elevations (MAPTITE): A Geospatial Tool for Estuary Restoration – Lijuan Huang and Chris Paternostro, NOAA

January 21, 2015 [View recording here](#)

Mapping With Ecological Site Descriptors – Richard A. Weber, P.E., Wetland Hydraulic Engineer, NRCS

2014

December 17, 2014 [View recording here](#)

State Offsite Methods for wetland determinations in the Prairie Pothole Region of IA, MN, ND and SD – Jason Outlaw, USDA Natural Resources Conservation Service

November 19, 2014 [View recording here](#)

Variable Width Riparian Areas Mapping: a Robust GIS Approach – Sinan A. Abood, USDA Forest Service

October 15, 2014 [View recording here](#)

Mapping Standards & Requirements – Rusty Griffin, U.S. Fish & Wildlife Service

September 17, 2014 [View recording here](#)

- **Part 1: A Help Guide for Using gSSURGO to Find Potential Wetland Soil Landscapes** – John Galbraith, Virginia Tech
- **Part 2: Applications of SSURGO soil attributes to potentially restorable wetlands** – Kevin Stark, Saint Mary's University

August 20, 2014 [View recording here](#)

Surface Waters and Wetlands Inventory: A More Comprehensive Dataset of the Nation's Water Resources – Mitch Bergeson, GIS Specialist, National Standards and Support Team, U.S. Fish and Wildlife Service

June 18, 2014 [View recording here](#)

Wetland Landscapes – Techniques for Spatial Definition and Ecological Assessment Using SSURGO, HGM, and GIS tools – Richard A. Weber, P.E., Wetland Hydraulic Engineer, Wetland Team, CNTSC

May 21, 2014 [View recording here](#)

Using Land Cover Change Data to Better Understand Wetland Trends – Nate Herold, Physical Scientist, NOAA Coastal Services Center

April 16, 2014 [View recording here](#)

- **The Minnesota NWI Update: A Case Study of Quality Assurance** – Steve Kloiber, P.E., Ph.D., Wetland Monitoring Coordinator, Minnesota Dept. of Natural Resources
- **The Minnesota NWI Update: Integrating Semi-automated Mapping Techniques into Production Level Wetland Mapping** – Robb Macleod, National GIS Coordinator, Ducks Unlimited

February 19, 2014 [View recording here](#)

Mapping Forested Wetland Inundation with the Landsat historic Record – Megan Lang, Senior Research Scientist with Science Systems and Applications, Inc. and Coordinator of the U.S. Department of Agriculture Mid-Atlantic Wetland Conservation Effects Assessment Project

January 22, 2014 [View recording here](#)

The Evolution of NWI and How It Has Changed: A Comparison of Old and New Methodologies, Strengths and Weaknesses – Andy Robertson, Saint Mary's University of Minnesota

2013

December 18, 2013 [View recording here](#)

Creating a Value-Added Wetlands Layer: Enhancing the Utility of Wetland Mapping in Montana – Karen Newlon, Montana Natural Heritage Program

November 20, 2013 [View recording here](#)

NWI+ Data What It Is and How It's Being Used – Ralph Tiner, Regional NWI Coordinator, Northeast Region, U.S. Fish and Wildlife Service

September 17, 2013 [View recording here](#)

- **Mapping "Natural" Floodplains** – Kevin Coulton, cbec, eco engineering, inc.
- **Soil Survey Information for Floodplain Mapping** – Dave Hoovers and Sharon Waltman, Natural Resources Conservations Service

June 26, 2013 [View recording here](#)

Iowa Wetland Assessment and Restorable Wetland Inventory – Chris Ensminger, Iowa Department of Natural Resources

May 15, 2013 [View recording here](#)

- **How has Wetland Training been Presented, What is Available, and How Might Innovative Technologies be used in the Future to Present Information to the Public and to Professionals** – Dr. John M. Galbraith, Virginia Tech
- **Documenting the Uses and Applications of the National Wetlands Inventory** – Jeanne Christie, Association of State Wetland Managers

February 26, 2013 [View recording here](#)

National SURRGO Wetland Soils Project – John Galbraith, Virginia Tech

2012

November 28, 2012 [View recording here](#)

Wetlands Assessment and Level I Mapping Techniques – Andy Robertson, St. Mary's University of Minnesota

October 17, 2012 [View recording here](#)

Wetlands Data in the National Atlas – Annie Neale, U.S. Environmental Protection Agency

August 15, 2012 [View recording here](#)

- **Scalable Mapping as a Tool to Complete the Wetlands Data Layer** – Tom Dahl, Chief, National Standards and Support Team, National Wetlands Inventory, U.S. Fish and Wildlife Service
- **Scalable NWI Mapping Initiatives in Alaska** – Julie Michaelson, U.S. Fish and Wildlife Service

July 18, 2012 [View recording here](#)

Sea Level Affecting Marshes Model (SLAMM) and SLAMM View

- **Origins of SLAMM** – Bill Wilen, National Wildlife Service
- **Sea Level Affecting Marshes Model (SLAMM)** – Jonathan Clough, Lead Modeler, Warren Pinnacle Consulting
- **SLAMM-View** – Jeff Ehman, Senior Analyst, Image Matters

June 20, 2012 [View recording here](#)

NWI Wetland Mapping Projects

- **Saint Croix Headwaters Wetland Mapping Project** – Chad Richtman, Saint Mary's University of Minnesota
- **Development of CARI (California Aquatic Resources Inventory)** – Kristen Cayce, San Francisco Estuary Institute

Compensatory Mitigation Webinars

2020

February 20, 2020 [View recording here](#)

Webinar 9: An Ecological Framework for Reviewing Compensatory Mitigation: How interests in property may affect mitigation projects – Paul Loftus, U.S. Army Corps of Engineers; Kara Hellige, U.S. Army Corps of Engineers; Robin Bedenbaugh, RES

2019

October 24, 2019 [View recording here](#)

Webinar 8: An Ecological Framework for Reviewing Compensatory Mitigation: Oversight and Compliance – Kristina Hall, U.S. Army Corps of Engineers; Sarah Woodford, Virginia Department of Environmental Quality; Ashley Zavagno, CA WRA, Inc.

June 27, 2019 [View recording here](#)

Webinar 7: An Ecological Framework for Reviewing Compensatory Mitigation: Anticipating the Unexpected – W. Lee Daniels, Thomas B. Hutcheson Professor of Environmental Soil Science, Virginia Tech; Shawn Chartrand, Postdoctoral Research Fellow, Vanderbilt University; Krystal Bell, Regulatory Program Manager, U.S. Army Corps of Engineers

May 15, 2019 [View recording here](#)

Webinar 6: An Ecological Framework for Reviewing Compensatory Mitigation: From Conceptual to Final Design – Matt Gause, Ecological Resources & Land Stewardship Director, Westervelt Ecological Services; Larry Urban, Wetland Mitigation Specialist, Montana Department of Transportation; and Jeanne Richardson, Mitigation Subject Matter Expert, U.S. Army Corps of Engineers, Norfolk District Regulatory Branch

April 18, 2019 [View recording here](#)

Webinar 5: An Ecological Framework for Reviewing Compensatory Mitigation: Coherent Plans – Goals, Objectives, Performance Standards, Outcomes and Monitoring – Eric Stein, Principal Scientist, Southern California Coastal Water Research Project; Mick Micacchion, Professional Wetland Scientist and Restoration Ecologist, The Nature Conservancy; and Anthony Zemba, Environmental Specialist, Certified Ecologist/Soil Scientist, Fitzgerald & Halliday, Inc.

March 22, 2019 [View recording here](#)

Webinar 4: An Ecological Framework for Reviewing Compensatory Mitigation Plans: Plan Review – Steve Martin, Environmental Scientist, Institute for Water Resources, U.S. Army Corps of Engineers; Michelle Mattson, Environmental Scientist, Institute for Water Resources, U.S. Army Corps of Engineers; Michael S. Rolband, P.E., P.W.S., P.W.D., Wetland Studies and Solutions, Inc.; and Karen Greene, National Oceanic and Atmospheric Administration, National Marine Fisheries Service (NOAA Fisheries)

2018

August 29, 2018 [View recording here](#)

Webinar 3: An Ecological Framework for Reviewing Compensatory Mitigation: Biotic Processes – Matt Gause, Westervelt Ecological Services; Mick Micacchion, The Nature Conservancy and Midwest Biodiversity Institute; Gretchen Coffman, University of San Francisco

July 16, 2018 [View recording here](#)

Webinar 2: An Ecological Framework for Reviewing Compensatory Mitigation: Abiotic Processes – Lenore Vasilas, USDA Natural Resources Conservation Service; Walter I. Priest, III, Wetland Design; Steve Eggers, U.S. Army Corps of Engineers, St. Paul District

June 19, 2018 [View recording here](#)

Webinar 1: An Ecological Framework for Reviewing Compensatory Mitigation – Eric Stein, Principal Scientist, Southern California Coastal Water Research Project; Jeremy Sueltenfuss, Department of Forest and Rangeland Stewardship, Colorado State University; W. Lee Daniels, Thomas B. Hutcheson Professor of Environmental Soil Science at Virginia Tech; and Matt Schweisberg, Principal of Wetland Strategies and Solutions, LLC

ASWM-NRCS Wetland Training Webinars

2019

May 6, 2019 [View recording here](#)

Webinar 9: Dealing with Changing Weather Patterns in Wetland Restoration Planning – Susan Galatowitsch, University of Minnesota, Ryan O’Connor, Wisconsin Department of Natural Resources, and Danielle Shannon, USDA Climate Hubs, Northern Institute of Applied Climate Science (NIACS)

August 5, 2019 [View recording here](#)

Webinar 8: What are the Choices and Benefits? Matching Objectives to Programs and Getting Additional Help – Andrew James, USDA Natural Resources Conservation Service, Karen Fullen, USDA Natural Resources Conservation Service, and Ted LaGrange, Nebraska Game and Parks Commission

December 2019 [View recording here](#)

Webinar 7: How to Talk about Wetlands with Landowners - Presentations Recorded (Non-Live Webinar) – Brittany Haywood, Delaware Department of Natural Resources and Andy Robertson, Saint Mary’s University of Minnesota

December 2019 [View recording here](#)

Webinar 6: Identifying Resource Concerns and Determining Landowner Objectives – Presentations Recorded (Non-Live Webinar) - Ted LaGrange, Nebraska Game and Parks Commission and Bill Edwards, Natural Resources Conservation Service

February 15, 2019 [View recording here](#)

Webinar 5: Dealing with Reality: How to Work with Wetlands in Altered Landscapes – Ray Norrgard, Minnesota Department of Natural Resources; Rich Weber, NRCS retired; Mike McClure, Missouri Department of Conservation

2018

December 14, 2018 [View recording here](#)

Webinar 4: Wetlands Ecology for Planners - Examples of Variation Across the United States – Doug Norris, Wetland Program Coordinator, Minnesota Department of Natural Resources and Andy Robertson, Executive Director, Geospatial Services, Saint Mary’s University of Minnesota

November 14, 2018 [View recording here](#)

Webinar 3: Wetlands Ecology for Planners – How Wetlands Function – Stacey Clark, USDA Natural Resources Conservation Service; and Kendra Moseley, USDA Natural Resources Conservation Service

August 15, 2018 [View recording here](#)

Webinar 2: Wetlands in a Watershed at the Landscape Scale – Kendra Moseley, USDA Natural Resources Conservation Service; Lenore Vasilas, USDA Natural Resources Conservation Service; Stacey Clark, USDA Natural Resources Conservation Service

June 22, 2018 [View recording here](#)

Webinar 1: Introduction to Wetlands – Mary Manning, US Forest Service; Doug Norris, Minnesota Department of Natural Resources; and Karen Fullen, USDA Natural Resources Conservation Service

ASWM Energy Project Webinars

2018

November 7, 2018 [View recording here](#)

Webinar #4: Pipeline Permitting 101: An Overview of Basic Oil and Gas Pipeline Permitting Processes and Concepts for Wetland Regulators – Clifford Brown, West Virginia Department of Natural Resources; Robert Parker, Wetland Policy Consultant; and Brenda Zollitsch, Association of State Wetland Managers

October 29, 2018 [View recording here](#)

Webinar #3: Horizontal Directional Drilling: Understanding Context when Reviewing Oil and Gas Pipeline Permit Applications – Richard Dalton, New Jersey Department of Environmental Protection; Patrick Ryan, New Jersey Department of Environmental Protection; Rick Gitar, Fond du Lac Reservation; and Brenda Zollitsch, Association of State Wetland Managers

July 24, 2018 [View recording here](#)

Webinar #2: Cumulative Adverse Effects of Pipeline Development on Wetlands and Other Aquatic Resources – Wing Goodale, Biodiversity Research Institute

July 18, 2018 [View recording here](#)

Webinar 1: Improving the Information Pipeline: Working with Consultants During Oil and Gas Pipeline Permitting Processes – Clifford Brown, West Virginia Department of Natural Resources; Brenda Zollitsch, Association of State Wetland Managers; Evan Hansen, Downstream Strategies, LLC

Improving Wetland Restoration Success Project

2016

November 17, 2016 [View recording here](#)

Long-term Management & Legal Protections for Voluntary Restoration – Ellen Fred, Esq., Conservation Partners; Ted LaGrange, Nebraska Game & Parks Commission; Jeff Williams, USDA Natural Resources Conservation Service; Andrew James, USDA Natural Resources Conservation Service

October 18, 2016 [View recording here](#)

Not Lost in Translation: How to Select the Right Wetland Restoration Team – Lisa Cowan, PLA, ASLA, Principal, Studioverde; John Bourgeois, Executive Project Manager, South Bay Salt Pond Restoration Project; and Matt Schweisberg, Principal, Wetland Strategies and Solutions, LLC

July 12, 2016 [View recording here](#)

Bottomland Hardwood Restoration – John A. Stanturf, PhD, U.S. Forest Service; John W. Groninger, PhD Southern Illinois University

June 27, 2016 [View recording here](#)

Gulf Coast Restoration Post-Katrina – Bren Haase, Planning and Research Division, Coastal Protection and Restoration Authority, State of Louisiana; William P. Klein, Jr. Ed.D., U.S. Army Corps of Engineers; John Andrew Nyman, PhD, Professor, School of Renewable Natural Resources, Louisiana State University; Denise J. Feed, PhD, Chief Scientist, The Water Institute of the Gulf

May 10, 2016 [View recording here](#)

Establishing Reference Conditions for Performance Standards & Long Term Monitoring Results: Soils, Hydrology and Vegetation – Dr. Robert Brooks, Professor, Pennsylvania State University and Director, Riparia; Dr. W. Lee Daniels, Professor, Virginia Tech; Dr. Eric Stein, Principal Scientist, Southern California Coastal Water Research Project

April 26, 2016 [View recording here](#)

Managing Invasive Species in Wetland Restoration Projects: Considerations for Common Reed, Reed Canary Grass, Purple Loosestrife, Nutria and Feral Hogs – Margaret (Marnie) Pepper, Wildlife Biologist and Project Leader, USDA-APHIS-Wildlife Services, Chesapeake Bay Nutria Eradication Project/Nutria Detector Dog Program; Wendy Anderson, Certified Wildlife Biologist and Assistant Program Manager, USDA-APHIS-Wildlife Service, National Feral Swine Damage Management Program; Eric Hazelton, PhD Candidate, Smithsonian Environmental Research Center and the Department of Watershed Sciences & Ecology Center, <http://www.aswm.org/aswm/newsletter> Utah State University; Ben Peterson, Aquatic Noxious Weed Specialist, King County Noxious Weed Control Program, Washington; Craig Annen, Operations Manager and Director of Research, Integrated Restorations, LLC

February 23, 2016 [View recording here](#)

Water Rights & Wetland Restoration – Alan J. Leak, P.E., Program Manager, Water Rights and Infrastructure at RESPEC and Julie A. Merritt, Water Resources Specialist/Project Manager, WGM Group

February 2, 2016 [View recording here](#)

Evaluating the Ecological Performance of Compensatory Mitigation – Joseph A. Morgan, U.S. Environmental Protection Agency, Wetlands Division; Dr. Eric Stein, Southern California Coastal Water Research Project; and Dr. Siobhan Fennessy, Kenyon College

2015

December 15, 2015 [View recording here](#)

Improving Wetland Restoration "Success": What We've Learned So Far – Jeanne Christie, Executive Director and Marla Stelk, Policy Analyst, Association of State Wetland Managers; David Olson, U.S. Army Corps of Engineers; Mary Kentula, U.S. Environmental Protection Agency's, National Health and Environmental Effects Laboratory's, Western Ecology Division and Larry Urban, Montana Department of Transportation

November 19, 2015 [View recording here](#)

Novel Ecosystems and Restoration – Joy Zedler, Professor of Botany and Aldo Leopold Chair of Restoration Ecology, University of Wisconsin-Madison; and Marilyn Jordan, Former Senior Conservation Scientist, The Nature Conservancy on Long Island, NY

October 13, 2015 [View recording here](#)

Wetland Restoration in Urban and Highly Disturbed Landscapes – Tom Ries, Ecosphere Restoration Institute; Steven I. Apfelbaum, Applied Ecological Services, Inc.; and Alexander J. Felson, Yale University School of Architecture & School of Forestry and Environmental Studies

September 8, 2015 [View recording here](#)

Stream-Wetland Restoration – Will Harman, Stream Mechanics and Matt Daniels, River Design Group, Inc.

July 14, 2015 [View recording here](#)

Peat Land Restoration – Norman Famous & Marcia Spencer-Famous, Spencer-Famous Environmental Consultants; Richard Weber, NRCS Wetland Team; and Larry Urban, Montana Department of Transportation

June 9, 2015 [View recording here](#)

Riverine/Riparian Wetland Restoration – Richard Weber, NRCS Wetland Team, CNTSC and Larry Urban, Montana Department of Transportation

May 19, 2015 [View recording here](#)

Prairie Pothole Restoration – Sue Galatowitsch, University of Minnesota and Carter Johnson, South Dakota State University

April 21, 2015 [View recording here](#)

Vernal Pool Restoration – How to Restore the Landscape – Mick Micacchion, Midwest Biodiversity Institute; Christina M. Schaefer, Schaefer Ecological Solutions; and Aram J.K. Calhoun, The University of Maine

March 17, 2015 [View recording here](#)

Pacific Coast Wetland Restoration – Charles ("Si") Simenstad, University of Washington and John Callaway, University of San Francisco

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Playa and Rainwater Basin Restoration – Rich Weber, NRCS Wetland Team, CNTSC and Ted LaGrange, Nebraska Game & Parks Commission

January 20, 2015 [View recording here](#)

Temperate and Tropical/subtropical Seagrass Restoration: challenges for the 21st century – Robin Lewis, Lewis Environmental Services, Inc. & Coastal Resource Group, Inc. and Mark Fonseca, CSA Ocean Sciences

2014

December 9, 2014 [View recording here](#)

Atlantic Coast Coastal Marshes and Mangrove Restoration – Robin Lewis, Lewis Environmental Services, Inc. & Coastal Resource Group, Inc.; John Teal, Woods Hole Oceanographic Institution (Scientist Emeritus); Joseph Shisler, ARCADIS; Jim Turek, NOAA Fisheries Restoration Center

November 4, 2014 [View recording here](#)

How to Prepare a Good Wetland Restoration Plan – Richard Weber, NRCS Wetland Team, CNTSC; Tom Harcarik, Ohio EPA, Division of Environmental & Financial Assistance; John Teal, Woods Hole Oceanographic Institution (Scientist Emeritus); Lisa Cowan, Professional Landscape Architect, Studioverde; Mick Micacchion, Midwest Biodiversity Institute

October 2, 2014 [View recording here](#)

A History of Wetland Drainage: How They Pulled the Plug – Tom Biebighauser, Wetland Restoration and Training

September 9, 2014 [View recording here](#)

How Restoration Outcomes are Described, Judged and Explained – Joy Zedler, Aldo Leopold Chair of Restoration Ecology, University of Wisconsin; Robin Lewis, Lewis Environmental Services, Inc. & Coastal Resource Group, Inc.; Richard Weber, NRCS Wetland Team, CNTSC; Bruce Pruitt, USACE Engineer Research & Development Center; Larry Urban, Montana Department of Transportation

Invasive Species Webinars

2018

March 21, 2018 [View recording here](#)

Invasive Species Databases: An In-depth Look at EDDMapS, the USGS Non-Indigenous Aquatic Species Database, and NEMESIS – Chuck Barger, University of Georgia; Pam Fuller, U.S. Geological Survey, Nonindigenous Aquatic Species Program; and Gregory Ruiz, Smithsonian Environmental Research Center

February 21, 2018 [View recording here](#)

Phragmites australis: Current Research and Experiments in Control Strategies for Wetland Habitat Recovery – Karin Kettnering, Utah State University; Christine Rohal, PhD Candidate, Utah State University; and Andrea Davalos, State University of New York

January 11, 2018 [View recording here](#)

Managing Invasive Species in the Great Lakes: Establishing Goals & Objectives, Monitoring Programs, and Cooperative Management Areas in Michigan – Gregory J. Norwood, Michigan Department of Natural Resources; Dr. Don Uzarski, Central Michigan University; Ryan Wheeler, Michigan Department of Natural Resources

2017

December 7, 2017 [View recording here](#)

Harvesting Invasive Species as a Management Strategy: Opportunities, Pitfalls and Lessons Learned – Jason Goldberg, U.S. Fish and Wildlife Service; Susan Pasko, U.S. Fish and Wildlife Service; and Matthew Barnes, Texas Tech University

November 30, 2017 [View recording here](#)

Biological Control Strategies and Lessons Learned for Giant Salvinia, Water Hyacinth and Alligatorweed – Dr. Rodrigo Diaz, Assistant Professor, Louisiana State University Dept. of Entomology; Lori Moshman, Graduate Assistant, Louisiana State University Dept. of Entomology; and Nathan Harms, Research Biologist, U.S. Army Engineer Research and Development Center

August 17, 2017 [View recording here](#)

Invasive Species in Coastal Wetlands: Current and Future Challenges & Management Implications – Tom Hall, USDA, Animal and Plant Health Inspection Service, Wildlife Services Program and Anne Garwood, Michigan Department of Environmental Quality