

Tentative Agenda



National Conference on Ecosystem Restoration

July 26-29 & August 2-5, 2021 | Virtual Conference

<https://conference.ifas.ufl.edu/ncer2021>

The National Conference on Ecosystem Restoration (NCER) provides an interactive forum for physical, biological and social scientists, engineers, resource managers, NGOs, planners, and policy makers to share their experiences and research results concerning large-scale and small-scale ecosystem restoration on both national and international levels.

Conference participants will learn about ecosystem restoration being conducted throughout the country, including what factors contributed to success, and how barriers and obstacles were overcome. In addition to breakout sessions with technical presentations, NCER features daily plenary sessions with speakers addressing the many pressing challenges faced by restoration professionals across the U.S. We are pleased to announce an impressive lineup of accomplished individuals who will inform us, inspire us, and sharpen our vision for future restoration success across diverse landscapes.


A key focus that is to be incorporated throughout all NCER presentations is how methods and approaches in the information presented can be:

- Transferred for use in other regions or ecosystem types;
- Utilized in eliminating issues of uncertainty in restoration implementation;
- Scaled for use in smaller and/or larger restoration projects; and be
- Communicated in a strategic manner to a range of restoration practitioners.

Be sure to stay tuned to the NCER web site for periodic updates. We look forward to "seeing you" at the conference!

NCER 2021 Week One Commences

Monday, July 26, 2021

<p>PRE-CONFERENCE</p>	<p align="center">Be Sure to Prepare Well in Advance to Participate</p> <p>Verify Zoom works on your PC and that you have the latest version so you may self-select which breakout you want to attend.</p> <p align="center">[PLEASE NOTE: All session times are in the Eastern Daylight Time Zone]</p> <hr/> <p align="center">For an in-depth checklist on how to prepare for a Zoom meeting, please review this Zoom: Pre-Meeting Checklist.</p> <hr/> <p align="center">https://conference.ifas.ufl.edu/zoom-meeting-checklist.html</p>
	<p align="center">ATTENTION: Please run or disable automatic software updates in advance of the conference. If you do not have administrative permission to do so, contact your IT department in advance to ensure your computer does not shut down or begin to run updates while you are presenting or attending a session.</p>
<p>12:30pm - 1:30pm (EDT)</p>	<p align="center">Staff Available at the Conference Help Desk during Arrival and Check-in</p> <p>Attendees can log into this session to ask questions about the conference, to get help logging into the Virtual Platform or to ask for help using Zoom.</p>
<p align="center">Plenary Session 1:00pm- 3:30pm Eastern Daylight Time (EDT)</p>	
<p>1:00pm - 2:00pm (EDT)</p>	<p align="center">Opening Plenary</p> <p align="center"><u>Welcome to NCER 2021 by the Conference Co-Chairs</u></p> <p>Matt Grabau, Conference Chair, Science Coordinator, Science Applications Program, U.S. Fish and Wildlife Service, and Former President, Large Scale Ecosystem Restoration Section (LERS) of the Society for Ecological Restoration, Tucson, AZ</p> <p align="center"><u>Keynote Speaker Introduction:</u></p> <p>Nick Aumen, Regional Science Advisor, South Florida, U.S. Geological Survey, Davie, FL</p> <p align="center"><u>Keynote Presentation - Restoration Across Diverse Landscapes: The Challenges to Thinking Big</u></p> <p>Gordon Reeves, Emeritus Scientist, US Forest Service, Corvallis, OR</p>
<p>2:00pm - 3:30pm (EDT)</p>	<p align="center">Regional Plenary on Ecosystem Restoration in the Pacific Northwest (Part 1)</p> <p align="center">Fire and Floodplains: Human Dimensions and Restoration Opportunities in the Pacific Northwest</p> <p align="center"><u>2:00pm Moderator Introduction & Overview:</u></p> <p>Rolf Gersonde, Forest Ecologist, Watershed Management Division, Seattle Public Utilities, Seattle, WA</p> <p align="center"><u>2:10pm Flood Plain Reunification: The River Restoration Frontier</u></p> <p>Janine Castro, Project Leader, U.S. Fish and Wildlife Service, Vancouver, WA</p> <p align="center"><u>2:45pm Flows before Function: Linking Landscapes to Food Webs through Physics</u></p> <p>Matthew Young, Fish Biologist, California Water Science Center, US Geological Survey, Sacramento, CA</p> <p align="center">3:20pm Q&A with the Audience</p> <p align="center">3:30pm Adjourn</p>
<p>3:30pm - 4:30pm (EDT)</p>	<p align="center">Virtual Networking Social & Orientation</p> <p>Join us for networking and an overview how to access the virtual platform, attend sessions and to get a feel for navigating a virtual NCER. A special drawing for a \$100 gift card will be conducted for everyone arriving within the FIRST FIVE MINUTES!</p>

Tuesday, July 27, 2021	
10:00am - 11:30am (EDT)	<p>Need help? Staff will be available at the Conference Help Desk during Arrival and Check-in Attendees can log into this session to ask questions about the conference, to get help logging into the Virtual Platform or for help using Zoom.</p>
<p>Plenary Session 11:00am - 12:30pm Eastern Daylight Time (EDT)</p>	
11:00am - 12:30pm (EDT)	<p style="text-align: center;"><u>Plenary Session:</u></p> <p style="text-align: center;"><u>Prioritizing Ecosystem Restoration on Expanding Scales: Investments in Restoration</u></p> <p>At all scales, programs must implement restoration intelligently to maximize the benefits of limited funding. Prioritization includes what actions and where. Presenters in this plenary session will provide examples and lessons learned from prioritizing restoration investments to address the diverse challenges we face. We will learn how restoration programs are prioritizing at different scales, with two examples from multi-state programs and one continental-scale wetland restoration program.</p> <p style="text-align: center;"><u>11:00am Moderator Introduction & Overview</u> Matthew Harwell, Chief, Pacific Coastal Ecology Branch, USEPA Pacific Ecological Systems Division, Newport, OR</p> <p style="text-align: center;"><u>11:10am Prioritization Tools Co-Developed with Northeastern States</u> Rachel Dawson, Program Director – Delaware River, National Fish & Wildlife Foundation (NFWF), Washington, DC</p> <p style="text-align: center;"><u>11:35am Gulf Coast Ecosystem Restoration</u> James E. Tillman, Sr. Regional Conservationist - Southeast, USDA, NRCS, Washington, DC</p> <p style="text-align: center;"><u>12:00pm Continental-Scale Perspective</u> Ellen Herbert, Ecosystem Services Scientist, Conservation, Ducks Unlimited, Memphis, TN</p> <p style="text-align: center;">12:25pm Closing Discussion</p> <p style="text-align: center;">12:30pm Adjourn</p>
12:30pm - 2:00pm (EDT)	<p>Lunch Break</p>

Tuesday, July 27, 2021				
Concurrent Sessions [2:00pm - 3:30pm] Eastern Daylight Time (EDT)				
	Session 1	Session 2	Session 3	Session 4
Session Title	Restoring the Columbia Lower River and Estuary Ecosystem: Evolution and Outcomes over Ten Years	It's Not Easy Being Green - Challenges and Solutions in Ecosystem Restoration	Right Project, Right Place: Supporting Science-based Restoration in the Sacramento-San Joaquin Delta	Willamette Ecosystem Restoration: Partners' Common Vision
Moderator	Ronald Thom Pacific Northwest National Laboratory	Jennifer Brunton WSP	Jamil Ibrahim Stantec Consulting Services Inc.	Anne Mullan National Marine Fisheries Service
2:00pm (EDT)	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
2:10pm (EDT)	Jason Karnezis Adaptive Management Structure of Columbia Estuary Ecosystem Restoration Program	Lori Fox The Role of Stakeholder Engagement in Endangered Species Reintroduction - Redwood National Park California Condor Reintroduction Plan	Dan Constable The Delta – Planning and Complexity	Kelly Reis Willamette Wildlife Mitigation Program: A Collaborative Approach to Implementing Mitigation
2:25pm (EDT)	Chanda Littles Restoration Effectiveness, Evidence-based Synthesis and Evaluation in Columbia Estuary Ecosystem Restoration Program	Justin Lennon Aquatic Organism Passage Success Monitoring at Culverts	Ramona Swenson Restoring Ecosystem Function	Andrew Dutterer Willamette Anchor Habitat Investments: A Public/Private Funding Partnership to Support Large-Scale Restoration on the Willamette River
2:40pm (EDT)	Greg Hood Landscape Ecology Theory Addressing What Projects to do Where and Why in the Columbia River Estuary	Kelly Lennon Challenges in Maximizing Environmental Uplift in an Alternative Delivery Environment	Kaylee Griffith Restoration in Action	Taylor Larson Willamette Anchor Habitat Working Group: Lessons for Regional Partnerships
2:55pm (EDT)	Dan Bottom Application of Landscape Ecology Theory in Locating and Designing Projects in the Columbia River Estuary	Edward Samanns Aligning Goals and Interests of Stakeholders and Land Managers for Peat Meadow Restoration Planning at the Paulinskill River	Campbell Ingram Agencies, Partners, and Local Interests	Matt Blakeley-Smith Large-Scale Floodplain Restoration: How Self-Driving Tractors Are Helping to Save Salmon
3:10pm (EDT)	Lynne Krasnow Targeting Restoration in the Columbia River Estuary for Endangered Fish Species	Peg McBrien Navigating Differing Opinions among Regulatory Agencies and Stakeholders to Establish the First Wetland Mitigation Bank in NYC	Discussion	Rose Wallick Willamette River Research and Monitoring to Inform Large-scale Restoration Programs
3:25pm (EDT)	Discussion	Discussion		Discussion
Plenary Session 4:00pm - 5:00pm Eastern Daylight Time (EDT)				
4:00pm - 5:00pm (EDT)	DIVERSITY 101: Where do we start? With our hearts! Benita Bannis , Assistant Director of the International Support Team (IIST) for the University of Florida's IFAS Office of Dean for Research will share her story and experience being black in academia. Benita will talk about the history of struggles black people encounter, with compelling images and stories from the past and present. This session is intended to unite us, reach our hearts and instill a desire for change by cultivating awareness at a deeper, more personal level. It is only when we become aware of racist behavior in our day-to-day lives, in our very own organizations (whether we know it or not and whether we are racist or not), that we can begin to effect change. Join us for the first of two sessions on addressing diversity and inclusion, and be a part of the discussion within the NCER Community.			
6:00pm - 8:00pm (EDT)	Poster Session & Networking Social 6:00pm - 8:00pm Eastern Daylight Time (EDT) A fun and interactive poster session will be conducted as a Zoom meeting. Those presenting posters virtually will be designated as individual Breakout Rooms. Attendees can jump from room to room (or poster to poster) to engage with presenters and attendees alike. Poster presenters will share their screens and show PowerPoint slides visualizing each section of their poster and describe their work in more detail. As an incentive for attendees to visit as many posters as possible, we are giving away four \$100 gift cards. The more posters one visits, the more times their name is entered in a drawing for each session. We are also giving a \$100 award to the top two poster presenters who receive the most visitors, so make plans to join us!			

Wednesday, July 28, 2021				
Concurrent Sessions [11:00am - 12:30pm] Eastern Daylight Time (EDT)				
	Session 5	Session 6	Session 7	Session 8
Session Title	USDA Restoration Strategy – Private Lands and Partnerships to Achieve Greater Ecosystem Restoration	Water Quality Model Development (Part 1 of 2)	Community Engagement to Restore Watersheds - a Look at Portland and DC's Small Grant Programs	Planning and Strategic Methods for Resilient Restoration
Moderator	Jon Morton USDA Gulf Restoration	Todd Steissberg U.S. Army Corps of Engineers	Jennifer Devlin City of Portland Bureau of Environmental Services	Lynn Wingard US Geological Survey
11:00am (EDT)	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
11:10am (EDT)	Robert Bendick Restoration and Conservation Strategies for Private Forest Lands in Southern Watersheds	John DeGeorge Integrating Water Quality into Reservoir System Modeling in HEC-ResSim	Jennifer Devlin Community Watershed Stewardship Grant Program: A Decade of Equity Measures and Outcomes	Lynn Wingard Role of Climate, Sea Level, and People in Coastal Change and Resiliency – An Example from South Florida
11:25am (EDT)	Mitch Hunter Restoring Soil Health in Agroecosystems: Decision Support & Ecosystem Service Tools	Billy Johnson Nutrient Simulation Module (NSM)	Bre'Anna Brooks Authentic Engagement, Capacity Building, and Watershed Restoration in Washington DC	Dylan Chapple Restoration and Climate Change in California's Sacramento-San Joaquin Delta: A Landscape Analysis
11:40am (EDT)	Bridget Collins Restoring Gulf Coast Agricultural Landscapes: Achievements and Lessons From a 10 Year, \$100 Million Partnership	Mark Jensen Creating a Custom Water Quality Kinetics Library for the Hydrologic Engineering Center's River Analysis System (HEC-RAS)	Judy Bluehorse Skelton Reclaiming the Urban Forest for Food, Medicine, and Ceremony: An Overview of Indigenous Cultural Collaborations in the Portland Metro Area	Marjorie Wolfe Designing for Failure – Rethinking How We Can Restore Ecosystem Resilience
11:55am (EDT)	Jay Jensen Knitting it Together and Getting to Scale - NFWF's Role in Restoring the Gulf	Zhonglong Zhang One-Dimensional Riverine Water Quality Model	Jeanne Braha People-Powered Restoration	Phyllis Klarmann Setting Environmental Flow Targets for Ecosystem Restoration: A Salinity Envelope Performance Measure for the Northern Estuaries Region of the Greater Everglades
12:10pm (EDT)	James Curtis RESTORE, Mississippi Gulf Coast Conservation Reserve Program	Scott Wells CE-QUAL-W2: TDG Modeling in Lake Roosevelt and Code Improvements for River Basin Modeling in a Cascade of Reservoirs	Mike Hands An Amazing Agroforestry Story: The Inga Model in Central America	Discussion
12:25pm (EDT)	Discussion	Discussion	Discussion	
12:30pm - 2:00pm (EDT)	Lunch Break			

Wednesday, July 28, 2021				
Concurrent Sessions [2:00pm-3:30pm] Eastern Daylight Time (EDT)				
	Session 9	Session 10	Session 11	Session 12
Session Title	Living Laboratories: Restoring National Parks in a Changing Climate	Water Quality Modeling Applications (Part 2 of 2)	Applying a Beneficial Cumulative Effects Paradigm to Advance Large-Scale Ecosystem Restoration	Agriculture, Ecosystems, and Climate Change: Integrated Strategies for Ecosystem Resilience
Moderator	Sarah Barmeyer National Parks Conservation Association	Todd Steissberg U.S. Army Corps of Engineers	Heida Diefenderfer Pacific Northwest National Laboratory	Jason Hatch Washington Water Trust
2:00pm (EDT)	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
2:10pm (EDT)	Melissa Abdo Elevating Protection and Restoration of National Parks in Our Changing Climate: Lessons & Challenges From Ground Zero	Jodi Ryder Modeling to Address Harmful Algal Blooms from a Systems Perspective	Marcus Beck Spatial Analysis of the Cumulative Effects of Pollution and Restoration on Water Quality and Seagrass Recovery	Spencer Easton Lessons Learned from Efforts to Integrate Agricultural Viability into Ecosystem Recovery
2:25pm (EDT)	Rajendra Paudel Evaluating Potential Impacts of Future Climate Projections on Everglades Hydrology	Jeff Tripe Missouri River Water Temperature Modeling	Andrew LoSchiavo Assessing the Compounding Effects of Restoration on the Food Web and Species Recovery in the Greater Florida Everglades	Beth Ledoux King County Fish, Farm, Flood: Comfortably Uncomfortable
2:40pm (EDT)	Christine Goepfert Restoring Keystone Species for Ecological Health of Public Lands	Eric Swain Utilizing the Everglades Depth Estimation Network for Estimating Wetland Flow Volumes and Management Effects	David Burdick Benefits to Living Shorelines Increase Over Time Lags Following Salt Marsh Restoration in the Northeast	Jason Hatch Recycled Water as a Sustainable And River Restoring Irrigation Source
2:55pm (EDT)	Steve Kopecky Salmon, Orcas & The San Juan Islands -- A Puget Sound Watershed Perspective	Tim Dekker HEC Models and Modeling Approaches Supporting Restoration of Urban Ecologies	Laurel Larsen Tracking the Progress of Restoration for Migratory and Wide-Ranging Species in the California Bay-Delta	Emily Dick How Dry Farming Can Build Equitable, Climate Resilient, and Water-Sustainable Communities
3:10pm (EDT)	Alex Zablocki Climate Change and Our Urban National Parks	Patrick Ray Water Quality Decision Support Modeling: Overcoming Barriers	Letitia Conway-Cranos Nearshore Restoration Adaptive Management in Puget Sound, WA: Improving Beach and Estuary Restoration Outcomes through Tool Development and Analyses	Discussion
3:25pm (EDT)	Discussion	Discussion	Discussion	


Thursday, July 29, 2021	
Plenary Session 11:00am - 12:30pm Eastern Daylight Time (EDT)	
11:00am - 12:30pm (EDT)	<p style="text-align: center;"><u>Plenary Session</u></p> <p style="text-align: center;"><u>Storytelling, Visualization, and Strategic Communications: Understanding the Social-Ecological Landscape</u></p> <p>Large-scale ecosystem restoration is not simply a matter of implementing the best science and technology. Sustainable restoration programs depend on developing and maintaining support from funders, policymakers, and communities—people. Restoration partnerships are increasingly working with storytellers who draw upon human dimensions and social science to deliver powerful messages across diverse types of media. In this plenary, we will learn how strategic communication is accelerating the pace of restoration across North America.</p> <p style="text-align: center;"><u>11:00am Introduction and Overview</u></p> <p>Matt Grabau, Conference Chair, Science Coordinator, Science Applications Program, U.S. Fish and Wildlife Service, and Former President, Large Scale Ecosystem Restoration Section (LERS) of the Society for Ecological Restoration, Tucson, AZ</p> <p style="text-align: center;"><u>11:10am A Different Perspective: Flights to Advance Policy and Communication</u></p> <p>Esther Duke, Western Program Director, LightHawk, Denver, CO</p> <p style="text-align: center;"><u>11:45am Using Imagery and Film to Raise Public Awareness of Biodiversity, Ecosystems, and Conservation</u></p> <p>Jeremy Monroe, Founder and Director, Freshwaters Illustrated, Corvallis, OR</p> <p style="text-align: center;">12:20pm Q&A with the Audience</p> <p style="text-align: center;">12:30pm Adjourn</p>
12:30pm-2:00pm (EDT)	Lunch Break

Thursday, July 29, 2021				
Concurrent Sessions [2:00pm - 3:30pm] Eastern Daylight Time (EDT)				
	Session 13	Session 14	Session 15	
Session Title	Science-Based Resources for Incorporating Nature-Based Solutions in the Private Sector	Solving Tidal Wetland Restoration Challenges	NERRS Nationwide Experience with Reserve Restoration and Adaptation Efforts	
Moderator	Lianna McFarlane-Connelly The Nature Conservancy	Amy Borde Pacific Northwest National Laboratory	Stuart Siegel San Francisco Bay National Estuarine Research Reserve	
2:00pm (EDT)	Introduction & Overview	Introduction & Overview	Introduction & Overview	
2:10pm (EDT)	Martha Rogers Mind the Gap: An Ecosystem Service Tool to Complement Financially-Driven Decision Making	Amy Borde Understanding Ecohydrology of Tidal Wetland Plant Communities to Inform Restoration	Rachel Stevens Assessing Tidal Marsh Resilience at the Landscape Scale: A National Product	
2:25pm (EDT)	France Guertin Valuing Nature Goal: Methods, Processes & Strategies for Driving Sustainability Goal Adoption Across a Corporation	Ian Sinks Field Experiment of Reed Canarygrass Control Methods in Two Tidal Freshwater Wetlands	Jonathan Pitchford Landscape-Scale Restoration and Monitoring of Pine Savanna Habitats on the Mississippi Gulf Coast	
2:40pm (EDT)	Kevin Halsey The ESII Tool: A Tool for Quantifying Ecosystem Service Performance - Applications & Lessons Learned	Shon Zimmerman Designing Topographic Heterogeneity in Tidal Wetland Restoration	Stuart Siegel Blending Technical Expertise and Active Community Participation to Define Adaptation Options for the Low Lying North San Pedro Road through China Camp State Park	
2:55pm (EDT)	Burton Suedel Resources and Tools for Implementing and Communicating Engineering with Nature Solutions	Heida Diefenderfer Wetland Channel Morphology and Sediment Characteristics of the Lower Columbia River and Estuary Floodplain	Roger Fuller Ghost Meadows: When Restoration, Climate Change, and Killer Moths Interact	
3:10pm (EDT)	Discussion	Kim Jones Large Woody Debris in Tidal Wetland Restoration	Monique Fountain Science Based Salt Marsh Ecosystem Restoration in Elkhorn Slough	
3:25pm (EDT)		Discussion	Discussion	

Thursday, July 29, 2021	
Plenary Session 4:00pm - 5:00pm Eastern Daylight Time (EDT)	
4:00pm - 5:00pm (EDT)	<p style="text-align: center;"><u>Plenary Session</u></p> <p style="text-align: center;"><u>Embracing our Differences – How the Structures of State Governments Influence Policy Making</u></p> <p>Large-scale ecosystem restoration is not possible without cooperation and collaboration among governing entities, which entails numerous intricacies and challenges when bringing diverse players together with varying political orientations. This session presents a fascinating, behind the scenes comparison of the structures of government – the states of Maryland, Pennsylvania, and Virginia, the Chesapeake Bay Program and the Chesapeake Bay Commission, and how these differences influence policy making and how science and politics inform decision-making.</p> <p style="text-align: center;"><u>PANELISTS:</u></p> <p style="text-align: center;">David Bulova (Discussion Facilitator), Chesapeake Bay Commission, Chairman Delegate of Virginia Sarah Elfreth, Chesapeake Bay Commission Member, Senator of Maryland Scott Martin, Chesapeake Bay Commission Member, Senator of Pennsylvania Ann Swanson, Executive Director, Chesapeake Bay Commission, Annapolis, MD</p> <p style="text-align: center;"><u>Presentations:</u></p> <p style="text-align: center;">4:00PM Opening Remarks - David Bulova</p> <p style="text-align: center;">4:05PM Governance Structures in the Chesapeake Bay - Ann Swanson</p> <p style="text-align: center;">4:25PM Film Presentation: Celebrating 40 years: How the Chesapeake Bay Commission Works</p> <p style="text-align: center;"><u>4:35PM Panel Discussion:</u></p> <p>Panelists will discuss how governance structures influence their work, the importance of understanding and tolerance, successful approaches to stakeholder/legislator interaction, and how science, politics and implementation experience informs policy and decision-making.</p> <p style="text-align: center;">5:00pm Adjourn</p>
NCER 2021 Week One Concludes	

NCER 2021 Week Two Commences

Monday, August 2, 2021

PRE-CONFERENCE	<p>Be Sure to Prepare Well in Advance to Participate</p> <p>Verify Zoom works on your PC and that you have the latest version so you may self-select which breakout you want to attend. [PLEASE NOTE: All session times are in the Eastern Daylight Time Zone]</p> <p>For an in-depth checklist on how to prepare for a Zoom meeting, please review this Zoom: Pre-Meeting Checklist.</p> <p style="text-align: center;">https://conference.ifas.ufl.edu/zoom-meeting-checklist.html</p>
	<p>ATTENTION: Please run or disable automatic software updates in advance of the conference.</p> <p>If you do not have administrative permission to do so, contact your IT department in advance to ensure your computer does not shut down or begin to run updates while you are presenting or attending a session.</p>
12:30pm - 1:30pm (EDT)	<p>Need help? Staff will be available at the Conference Help Desk during Arrival and Check-in</p> <p>Attendees can log into this session to ask questions about the conference, to get help logging into the Virtual Platform or for help using Zoom. You can also log in here and request a breakout room if you want to meet up with a colleague.</p>
<p>Plenary Session</p> <p>2:00pm - 3:30pm Eastern Daylight Time (EDT)</p>	
2:00pm - 3:30pm (EDT)	<p><u>Regional Plenary on Ecosystem Restoration in the Pacific Northwest (Part 2)</u></p> <p>2:00pm Moderator Introduction & Overview Rolf Gersonde, Forest Ecologist, Watershed Management Division, Seattle Public Utilities, Seattle, WA</p> <p>2:10pm <u>Wildfires and Fish Habitats: The Importance of Pulsed Disturbances</u> Paul Hessburg, Research Landscape Ecologist, USDA, Wenatchee, WA</p> <p>2:45pm <u>The Reciprocity Approach and First Foods Perspectives on Ecosystem Restoration and Natural Resource Management</u> Eric Quaempts, Director, Department of Natural Resources, Confederated Tribes of the Umatilla Indian Reservation, Pendleton, OR</p> <p>3:20pm Q/A and Open Discussion</p> <p>3:30pm Adjourn</p>
3:30pm - 6:00pm (EDT)	<p>AFTERNOON BREAK - come back and join us this evening for the Film Screening Watch Party!</p>
6:00pm - 8:00pm (EDT)	<p><u>Film Screening Watch Party 6:00PM - 8:00PM Eastern Daylight Time (EDT)</u></p> <p>Join us for Snacks, Refreshments and A Freshwaters Illustrated Film Screening</p> <p>Event Host: Darcy Austin, Science Manager, State Water Contractors (SWC), Sacramento, CA</p> <p>Film Producer & Emcee: Jeremy Monroe, Founder and Director, Freshwaters Illustrated, Corvallis, OR</p> <p>UPRIVER is a watershed film that explores one of the Nation's most active river conservation movements. Within Oregon's Willamette River system, the film focuses on people from all walks of life who are coming together to revive the health of this large river and the life it supports.</p>

Tuesday, August 3, 2021	
10:00am - 11:30am	<p>Need help? Staff will be available at the Conference Help Desk during Arrival and Check-in</p> <p>Attendees can log into this session to ask questions about the conference, to get help logging into the Virtual Platform or for help using Zoom. You can also log in here and request a breakout room if you want to meet up with a colleague.</p>
<p>Plenary Session 11:00am - 12:30pm Eastern Daylight Time (EDT)</p>	
11:00am - 12:30pm (EDT)	<p style="text-align: center;"><u>Plenary Session</u></p> <p style="text-align: center;"><u>Partnerships and Mechanisms to Develop Sustainable Funding</u></p> <p>To address restoration at the scale of the challenges we face, we must continue to increase the geographic scope of our efforts to support resources, habitat, and species that cross geopolitical boundaries. As scale increases, so does complexity and the need to develop and provide funding for partnerships that include multiple agencies, tribes, private landowners, and nonprofit organizations. This plenary session will provide lessons learned from innovative strategies to sustain long-term partnerships to fund restoration implementation at scale.</p> <p style="text-align: center;"><u>11:00am Moderator Introduction & Overview</u></p> <p style="text-align: center;">Howard Gonzales, Jr., Chief, Ecosystem Branch, Programs & Project Management Division, US Army Corps of Engineers Jacksonville District, Jacksonville, FL</p> <p style="text-align: center;"><u>11:10am Transformational Partnerships and the Tualatin River Watershed</u></p> <p style="text-align: center;">Bruce Roll, Director, Natural Systems, Enhancement & Stewardship, Clean Water Services and Clean Water Institute (CWI), Hillsboro, OR</p> <p style="text-align: center;"><u>11:45am Non-Traditional Partnerships to Support Everglades Restoration</u></p> <p style="text-align: center;">Robert Johnson, Science Advisor, US Department of Interior (DOI), Office of Everglades Restoration Initiatives (OERI), Homestead, FL</p> <p style="text-align: center;">12:20pm Q&A with the Audience</p> <p style="text-align: center;">12:30pm Adjourn</p>

Tuesday, August 3, 2021				
Concurrent Sessions [2:00pm - 3:30pm] Eastern Daylight Time (EDT)				
	Session 17	Session 18	Session 19	Session 20
Session Title	Restoring Coastlines: Innovative Living Shoreline Projects	Communication Platforms and Communities of Practice to Advance Conservation at the Landscape Scale and Beyond	More Than Just "... and ecosystem services benefits" – Connecting Ecosystem Services and Restoration	Partnering with Native Beavers for Ecological Restoration & Resilience
Moderator	Karina Johnston Loyola Marymount University Coastal Research Institute	Matthew Grabau U.S. Fish and Wildlife Service	Connie Hernandez Oak Ridge Institute for Science and Education	Alexa Whipple Methow Beaver Project
2:00pm (EDT)	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
2:10pm (EDT)	Melodie Grubbs Coastal Restoration and Planning: Merging Science and Stakeholders	Jessica Hitt Filling the Climate Change Adaptation Knowledge Gap through the Climate Adaptation Knowledge Exchange (CAKE) - An Online Platform to Connect Practitioners, Share Ideas, and Move the Field of Practice Forward	Theodore DeWitt A Top-Down Approach for Identifying and Prioritizing the Final Ecosystem Goods and Services Produced by Ecological Restoration	Holly Kinas Ecological Importance of Beavers & Historical & Contemporary Challenges to Their Success
2:25pm (EDT)	David Hubbard Coastal Resilience and Dune Restoration at Surfer's Point, CA: An Evaluation After Eight Years	Jessica Halofsky Communities of Practice in Climate Change Adaptation	Connie Hernandez An Application of the Final Ecosystem Goods and Services Scoping Tool at Restoration Sites in Tillamook Bay	Elyssa Kerr Living with Beavers: In-Place Management of Ecosystem Engineers
2:40pm (EDT)	Karina Johnston Living Shoreline Projects in Southern California: Coastal Adaptation in Urban Communities	Anna Weinberg Case Studies as the Foundation for Communities of Practice	Chloe Jackson The Value of Final Ecosystem Goods and Services in Restoration Monitoring	Molly Alves Beaver Relocation Strategies for Stream Restoration and Climate Resilience
2:55pm (EDT)	Christine Whitcraft Evaluating a Paired Oyster-Eelgrass Restoration Model for Southern California	Krystie Miner An Application of a Case Study-Based Community of Practice to Address Introduced Aquatic Species	Michael Kravitz Consideration of Ecosystem Services at Cleanup Sites: A Retrospective Analysis and Ongoing EPA/ORD Research	Alexa Whipple Smokey & Sooty the Beavers: A Better Way To Combat Wildfire Impacts
3:10pm (EDT)	Ellie Chetelat Coastal Resilience through Dynamic Living Shorelines	Alexis Gibson Restoration Principles and Standards as the Backbone for an International Community of Practice	Burnice Karimi Ileri Prospects of Willingness to Pay in Restoration of Water Quality and Water Quantity Ecosystem Services in Kapingazi Catchment, Embu County, Kenya	Chris Jordan Partnering with Beavers in Low-tech, Process-based Watershed Restoration
3:25pm (EDT)	Discussion	Discussion	Discussion	Discussion

Tuesday, August 3, 2021	
Plenary Session 4:00pm - 5:00pm Eastern Daylight Time (EDT)	
4:00pm - 5:00pm (EDT)	<p style="text-align: center;">DIVERSITY 102: The Conservation Journey</p> <p>Invited scientists will share their stories about how they overcame hurdles in the STEM fields to advance their careers, and how their journeys shape their approaches to ecological restoration. They will share specifics about roadblocks they encountered along the way; describe gatekeepers that control who goes in or is kept out and discuss specific actions we can take to support the career advancement of under-represented groups. An agency manager will share steps they have taken to increase diversity and inclusion within their operations and share concrete actions you can take to make a difference within your circle of influence. Join us for a conversation on how we as a restoration community can do our part to advance diversity and inclusion.</p> <p style="text-align: center;"><u>4:00pm Moderator Introduction & Overview</u></p> <p style="text-align: center;">Matthew Harwell, Chief, Pacific Coastal Ecology Branch, USEPA Pacific Ecological Systems Division, Newport, OR</p> <p style="text-align: center;"><u>Presenters & Discussants:</u></p> <p style="text-align: center;">Levi Steele Lewis, Principal Investigator, Otolith Geochemistry and Fish Ecology Laboratory, University of California, Davis, Davis, CA</p> <p style="text-align: center;">Chanda Littles, Coastal Ecologist, U.S. Army Corps of Engineers – Portland District, Portland, OR</p> <p style="text-align: center;">Jennifer Owen-White, Manager, Valle de Oro National Wildlife Refuge, US Fish and Wildlife Service, Albuquerque, NM</p>
6:00pm - 8:00pm (EDT)	<p style="text-align: center;">Film Screening Watch Party 6:00PM - 8:00PM Eastern Daylight Time (EDT)</p> <p style="text-align: center;">Join us for Snacks, Refreshments and A Freshwaters Illustrated Film Screening</p> <p style="text-align: center;"><u>Event Host:</u></p> <p style="text-align: center;">Ryan Clark, Research Scientist, The Water Institute of the Gulf, Baton Rouge, LA</p> <p style="text-align: center;"><u>Film Producer & Emcee:</u></p> <p style="text-align: center;">Jeremy Monroe, Founder and Director, Freshwaters Illustrated, Corvallis, OR</p> <p>Hidden Rivers - Ten years in the making, Hidden Rivers is Freshwaters Illustrated’s newest feature film that explores the rivers and streams of the Southern Appalachian region, North America’s most biologically rich waters. The film follows the work of conservation biologists and explorers throughout the region and reveals both the beauty and vulnerability of these ecosystems.</p>

Wednesday, August 4, 2021				
Concurrent Sessions [11:00am - 12:30pm] Eastern Daylight Time (EDT)				
	Session 21	Session 22	Session 23	Session 24
Session Title	Collaboration in Landscape-Scale Restoration	Getting to Use: Methods for Working with Stakeholders to Apply Science in Decisions	It's Not as Hard as it Sounds: Integrating Ecological Models into Ecosystem Restoration Practice	Successful Tools and Approaches for Restoration Projects within the Laurentian Great Lakes Region (Part 1 of 2)
Moderator	John Tull U.S. Fish and Wildlife Service	Kathleen Williams U.S. EPA Office of Research and Development	Bianca Charbonneau US Army Corps of Engineers	Craig Palmer General Dynamics Information Technology
11:00am (EDT)	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
11:10am (EDT)	Mark Buckley Habitat Conservation Plans as a Tool for More Socially Efficient Restoration Outcomes: Oregon State Forests	Matthew Harwell Applying Translational Science Frameworks for Ecosystem Services and Ecosystem Restoration	Brook Herman How Ecological Models Can Fill in the Gaps in Ecosystem Restoration Planning and Communication	Louis Blume Tools Used to Improve Data Quality in GLRI Restoration Projects
11:25am (EDT)	Emelie McKain Chehalis Basin Aquatic Species Restoration Plan: Basin-Scale Restoration in the Face of Climate Change	Susan Yee Final Ecosystem Goods and Services for Use by National Estuary Program Stakeholders to Inform Management and Restoration Planning Decisions	Todd Swannack Let's Model Together: Breaking Down Quantitative Barriers to Improve Stakeholder Engagement in Ecological Modeling	Molly Middlebrook Improving and Verifying Ecological Restoration Outcomes: Recently Published EPA Guidance
11:40am (EDT)	Amber Inggs Large Scale Coastal Wetland Restoration in Los Angeles	Leah Sharpe Use of Ecosystem Goods and Services and Community Engagement in the Restoration and Revitalization of Contaminated Sites	Darixa Hernandez-Abrams A Practical Toolbox for Restoration Planning and Decision-making	Joshua Unghire Restoring Wetlands and Coastal Resiliency at Braddock Bay
11:55am (EDT)	Nicholas Nelson River and Wetland Restoration Opportunities within Retired Agricultural Land	Kathleen Williams Health Impact Assessment Approach to Inform Habitat Restoration in the Great Lakes Region	Jeffrey Matthews Monitoring Restoration Sites with Floristic Quality Metrics – Pros and Cons	Brick Fevold Integrating QA/QC Into Adaptive Management: Revisiting the Plan-Do-Check-Act Cycle
12:10pm (EDT)	John Tull Incorporating Social Science into Collaborative Conservation: The Roger Example	Lori Miller Stakeholder-Driven Ecosystem-Based Management in the Florida Everglades	Don DeAngelis Using Modeling and Stable Isotopes to Understand and Predict the Effects of Sea Level Rise and Storm Surges on Coastal Ecosystem Restoration	Discussion
12:25pm (EDT)	Discussion	Discussion	Discussion	
12:30pm-2:00pm (EDT)	Lunch Break			

Wednesday, August 4, 2021				
Concurrent Sessions [2:00pm - 3:30pm] Eastern Daylight Time (EDT)				
	Session 25	Session 26	Session 27	Session 28
Session Title	Freedom Space For Rivers	Urban and Suburban Project Success Stories	Effective Decision-making Tools for Restoration (Part 1)	Workshop on Performance-Based Decision Making in Ecological Restoration Project Planning and Assessment (Part 2 of 2)
Moderator	Peter Skidmore Walton Family Foundation	Glen Leverich Stillwater Sciences	Gregory Steyer U.S. Geological Survey	Craig Palmer General Dynamics Information Technology (GDIT)
2:00pm (EDT)	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
2:10pm (EDT)	Pascale Biron Freedom Space for Rivers: An Approach Increasingly Accepted for Passive River Restoration in Quebec	John O'Meara The Rouge River Area of Concern – A Multi-Year, Multi-Level Successful Approach to AOC Restoration	Kate Buenau When Decision Criteria Get Complicated: Adapting Adaptive Management for Large Ecosystem Restoration	Workshop Instructors: Louis Blume , U.S. EPA Brick Fevold , Craig Palmer and Molly Middlebrook , GDIT A critical restoration planning component is to establish clear and relevant project goals, specific and measurable objectives, and data quality acceptance criteria for data quality indicators such as precision, bias and accuracy. The recently published "Application of Quality Assurance and Quality Control Principles to Ecological Restoration Project Monitoring" (EPA-905-K19-001, April 2019) guides individuals with strategies for maximizing the quality of data generated for their monitoring programs. This interactive workshop builds on information presented in Part 1. Attendees will examine a real-life case study and participate in planning-team exercises' to explore best practices for developing project goals and objectives in quantitative and qualitative terms.
2:25pm (EDT)	Emily Alcott Putting Freedom Space to Work: A Practitioner's Perspective	Tom Hesseldenz Using Large-Scale Inset Floodplain Creation along Incised Urban Streams to Resolve Flooding, Restore Ecological Functions, and Provide Social Benefits	Letitia Grenier Demonstration of User-Driven Science to Support Decision-Making for Large-Scale Restoration of a Unique, Critical, and Vast Ecosystem	
2:40pm (EDT)	Christine Hatch Developing and Mapping the River Process Corridor in the Northeastern U.S.	Glen Leverich Restoring Floodplain-Wetland Functions and Buffering Hydromodification Impacts through Enhancement of Beaver-Habitat Processes	Chadwin Smith Getting Unstuck – an Evaluation Framework for Governance and Adaptive Management in Large Restoration Programs	
2:55pm (EDT)	Discussion	Lindsey Sheehan Using Habitat Evolution Models as a Guide for Wetland Restoration Planning	David Hanson Use of Structured Decision Making for Restoration Scaling of Cultural Service Injuries Associated with Environmental Injuries	
3:10pm (EDT)		Wendy Katagi Reconnecting Lost Spaces Through Urban Biodiversity	William Trousdale Case Example of Structured Decision Support for Assessing Cultural Service Injuries	
3:25pm (EDT)		Discussion	Discussion	Discussion

Thursday, August 5, 2021				
Concurrent Sessions [11:00am - 12:30pm] Eastern Daylight Time (EDT)				
	Session 29	Session 30	Session 31	Session 32
Session Title	Updating the Restoration Tool Box: Everglades Restoration	Open Data in a Complicated Restoration Landscape: Multi-agency Data Coordination in the Gulf of Mexico	Effective Decision-making Tools for Restoration (Part 2)	Integrating Social Science and Cultural Resources into Restoration Planning and Implementation
Moderator	Laura Brandt U.S. Fish & Wildlife Service	Jessica Henkel Gulf Coast Ecosystem Restoration Council	Sarah Wheatley Samish Indian Nation	Jessie Grossman Yellowstone to Yukon Conservation Initiative
11:00am (EDT)	Introduction & Overview	Introduction & Overview	Introduction	Introduction & Overview
11:10am (EDT)	Tasso Cocoves A Collaborative Effort to Revise Everglades Conceptual Ecological Models through Advancement of Science and Knowledge	Lauren Showalter Incremental Progress: The Road Less Traveled Towards Data Sharing and Data Exchange in the Gulf of Mexico	Shannon Crossen ICF Ecosystem Connectivity Planning Tool: a Web-Based Tool Identifying Opportunities for Improved Ecosystem Connectivity	Stefanie Krantz Camas to Condors: Whole-Systems Restoration for Resilience, Justice, and Cultural Survival
11:25am (EDT)	Laura D'Acunto Identifying Ecological Vulnerability in the Everglades Using Bayesian Belief Networks	Kevin Suir RESTORE Council Monitoring and Assessment Program: Understanding the Data Landscape	Bethany Carl Kraft A Framework for Considering Climate Change Impacts in Project Selection for Deepwater Horizon Restoration Efforts	Megan Skinner The Upper Klamath Basin Watershed Action Plan
11:40am (EDT)	Michael Simmons RECOVER System-Wide Evaluation: Evaluating Project Alternatives for Ecological Effects to Inform Plan Formulation	Rosalie Rossi GRIIDC Application: A Research-based Data Repository's Experience in Building Capacity and Accessibility	Bernadette Kuhn When You Can't Restore It All: An Approachable Tool for Prioritizing Restoration Projects	Cassie Hauswald Restoring Instream Flows for People and Hellbender Salamanders
11:55am (EDT)	Laura Brandt Using Long-Term Monitoring Data on Crocodilians to Assess Progress Towards Everglades Restoration	Kathryn Keating Gulf Coast Long Term Data Management: Cross-agency Collaboration	Laura McMullen Multi-Factor Restoration Prioritization for Salmonids: Habitat, Feasibility, and Cost	Alice Bailey Engineering the Social Aspect of Ecosystem Restoration
12:10pm (EDT)	Fred Sklar Everglades Report Card: A New Restoration Status Communication Tool for the Everglades	Discussion	Sarah Wheatley Grassy Bald Research, Restoration, and Monitoring: Using Indigenous and Western Sciences to Manage Land for Resilience and Diversity	Discussion
12:25pm	Discussion			
12:30pm - 2:00pm (EDT)	LUNCH BREAK			

Thursday, August 5, 2021				
Concurrent Sessions [2:00pm - 3:30pm] Eastern Daylight Time (EDT)				
	Session 33	Session 34	Session 35	Session 36
Session Title	Community Engagement, Communication and Science to Support Ecological Assessments and Restoration	Restoring Ecosystems in Light of Climate Change: Strategies for Promoting Resiliency	Exploring Functional Lift in Urban Stream Restoration Projects Coast to Coast (U.S.A.)	Developing and Improving Science Enterprises to Support Ecosystem Recovery Initiatives
Moderator	Ted DeWitt U.S. Environmental Protection Agency	Michael Donahue AECOM	Stephanie Coffman Stantec Consulting Services	Darcy Austin State Water Contractors
2:00pm (EDT)	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
2:10pm (EDT)	Nathalie Hamel From Water to Whales: Tracking a Changing Ecosystem Via the Puget Sound Vital Signs	Joshua Oyer The Texas Coastal Resiliency Master Plan: An Innovative Approach to Ecosystem Restoration	Charles Gowan Urban Stream Restoration and Monitoring in Mechumps Creek, Virginia	<p>PANELISTS:</p> <p>Nick Aumen, Everglades Ryan Clark, Gulf of Mexico Mike Chotkowski, California Bay Delta Matthew Grabau, Desert Southwest Joel Hoffman, Great Lakes Bill Labiosa, Puget Sound Emily Trentacoste, Chesapeake Bay</p> <p>Coordinated, science-based approaches are essential for identification and prioritization of restoration and protection efforts to achieve goals for ecosystem restoration. Varying approaches are being developed to coordinate science contributions to system recovery across different ecosystem restoration programs around the US. Panel members representing large-scale ecosystems from around the country will discuss common features and important system-specific differences from each ecosystem programs. Panelists will identify opportunities to improve the creation and use of credible science to support their programs and share insights about how scientists can improve the relevance and use of their findings and expertise for ecosystem restoration.</p>
2:25pm (EDT)	Robert Knox Utilizing Practitioner-Directed Ecosystem Restoration Projects in Environmental Capstone Classes to Improve Educational Effectiveness and Enhance Community Impacts	Jeremy Mull Coastal Restoration Planning and Design: the Maplewood Marine Restoration Project	Michael Adams Wood as a Bank Treatment Element in Urban Systems	
2:40pm (EDT)	Sze Wing Yu Riparian Vegetation Community Response to Bison Restoration in the Northern Great Plains, Montana	Alexandra Carter Introducing the Louisiana Watershed Initiative: Showcasing Resiliency in Ecosystem Restoration	Rich Pflingsten Integrating Stream Restoration and Floodplain Reconnection Techniques to Improve Functional Uplift as Part of an Urban Golf Course Renovation Project, Crownsville, Maryland	
2:55pm (EDT)	Jennifer White-Owen Community Engagement in Designing Restoration at a National Wildlife Refuge	Claire Bonham-Carter The "100 Resilient Cities" Project: Case Studies in Urban Ecosystem Restoration	Stephanie Coffman Exploring New Frontiers: Introducing Urban Communities to Stream Restoration and Fluvial Geomorphology	
3:10pm (EDT)	Discussion	Discussion	Josh Running Water Quality Features In Urban Stream Restoration Projects	
3:25pm (EDT)			Discussion	Discussion

Thursday, August 5, 2021	
Plenary Session 4:00pm - 5:00pm Eastern Daylight Time (EDT)	
4:00pm - 4:55pm (EDT)	<p style="text-align: center;"><u>Closing Keynote Presentation Featuring Conservation Photographer Mac Stone</u></p> <p style="text-align: center;"><u>4:00pm Moderator Welcome and Introductions</u> Darcy Austin, Science Manager, State Water Contractors (SWC), Sacramento, CA</p> <p>Mac Stone is a National Geographic Explorer and an internationally acclaimed conservation photographer. His images help tell the complex stories of wetlands and wilderness through the wildlife and people who rely upon them. Photographing for publications and organizations around the world, Stone's roots come from the swamps, estuaries, springs, and Everglades of his home state. His images have been widely published and honored and his TED talk has been viewed over a million times. An author, speaker, and senior fellow with the International League of Conservation Photographers and Sea Legacy, he strives to expose the dynamic relationship between mankind and the natural world to drive conservation initiatives. His award-winning book, Everglades: America's Wetland, is a visual journey through the River of Grass and aims to bring awareness to Everglades restoration efforts. He is currently working on a new book that explores the remaining old growth swamps left in the United States. Join us for this upbeat and inspiring presentation as a reminder why what you do makes a difference.</p>
4:55pm - 5:00pm (EDT)	<p style="text-align: center;"><u>4:55pm Closing Remarks</u></p> <p>Matt Grabau, Chair, Science Coordinator, Science Applications Program, U.S. Fish and Wildlife Service, and Former Past President, Large Scale Ecosystem Restoration Section (LERS) of the Society for Ecological Restoration, Tucson, AZ</p>
5:00pm (EDT)	NCER 2021 Concludes