



National Conference on Ecosystem Restoration

April 14-19, 2024

Albuquerque, New Mexico

www.conference.ifas.ufl.edu/ncer

Sunday, April 14, 2024	
4:00pm- 7:00pm	<p>Conference Registration Opens Poster Presenters and Sponsors Move-In Displays</p>
9:00am - 2:30pm	<p>OPTIONAL FIELD TRIP: Santa Ana Pueblo Bosque Enhancement Projects [Morning refreshments are provided prior to boarding the bus.]</p> <p>This tour begins with an overview while traveling to the site on invasive species management and restoration work on the Rio Grande floodplain within the Santa Ana Pueblo. While at the Pueblo, participants will take part in a walking tour (~ 2 miles) through the bosque adjacent to the river featuring grassland and riparian restoration, and riverine and bank stabilization projects. The tour includes a box lunch to be provided at the Pueblo and then return trip to the hotel.</p>
Monday, April 15, 2024	
7:30am- 5:30pm	<p>Conference Registration Open</p>
7:30am- 8:30am	<p>Coffee Break in Poster & Sponsor Display Area (Breakfast on Own)</p>
8:30am-8:45am	<p>Opening Session and Regional Plenary The Desert Southwest - The Front Lines of Climate Change [Pavilion Ballroom I, II & III]</p> <p>Opening Remarks: Matt Grabau, NCCER Conference Chair, and Adaptive Management Group Manager, Bureau of Reclamation, Lower Colorado River Multi-Species Conservation Program, Tucson, AZ Matt Whiles, Department Chair, University of Florida, Soil, Water and Ecosystem Sciences Department, Gainesville, FL</p>
8:45am - 9:30am	<p>Moderators: Sharon Hausam, Climate Adaptation Planner & Research Scientist, South Central Climate Adaptation Science Center, Albuquerque, NM Jake Palazzi, New Mexico Tribal Liaison, South Central Climate Adaptation Science Center, Albuquerque, NM</p> <p>Keynote Presentation and Welcome to the Desert Southwest "Setting the Stage for Restoration: A Tribal Perspective on Historic and Contemporary Ecosystems and Culture in the Southwest" Blane Sanchez, Former 2nd Lieutenant Governor, Pueblo of Isleta (Jan 2021 - Dec 2022); and Former Commissioner, New Mexico Interstate Stream Commission, Isleta, NM</p>
9:30am - 10:00am	<p>Coffee Break in Poster & Sponsor Display Area</p>

Monday, April 15, 2024

10:00am - 11:30am	<p>Arid Landscape Restoration: Challenges and Opportunities for Landscape-Scale Restoration in the Southwest [Pavilion Ballroom I, II & III]</p> <p>Moderators: Leslie Hay, SW Region Wildlife Program Leader, U.S. Forest Service, Albuquerque, NM Genevieve Allan, Project Management Specialist, Bureau of Reclamation, Albuquerque, NM</p> <p>Presenters: "Managing Southwestern Forests in a Changing Climate" Matt Hurteau, Professor, Dept. of Biology, University of New Mexico, Albuquerque, NM</p> <p>"Planning for Cross-Border Conservation in the Chihuahuan Desert" Karen Chapman, Coordinator, Rio Grande Joint Venture (RGJV), Alpine, TX</p> <p>"Engaging Underserved Communities in Urban Restoration" Jennifer Owen-White, Refuge Manager, Valle de Oro National Wildlife Refuge, U.S. Fish and Wildlife Service, Albuquerque, NM</p>
11:30am - 12noon	<p>How the G20 Global Land Initiative is Addressing the Challenges of the Southwest at the Global Scale [Pavilion Ballroom I, II & III]</p> <p>Moderator: Matt Grabau, NCER Conference Chair, and Adaptive Management Group Manager, Bureau of Reclamation, Lower Colorado River Multi-Species Conservation Program, Tucson, AZ</p> <p>Presenter: Mohamed Abd Salam El Vilaly, Programme Officer - Information Management, United Nations Convention to Combat Desertification (UNCCD), UN Campus, Bonn, Germany</p>
12noon - 1:30pm	<p>Lunch on Own</p>
1:30pm - 3:00pm	<p>Panel Presentations & Discussion: Balancing Water Management for Ecosystems, Agriculture, and Human Communities [Pavilion Ballroom I, II & III]</p> <p>Moderators: Genevieve Allan, Project Management Specialist, Bureau of Reclamation, Albuquerque, NM Elroy Masters, National Wildlife Program Lead, U.S. Bureau of Land Management, Washington, DC</p> <p>Presenters & Panelists: "Overview of the Bureau of Reclamation's Management of the Rio Grande" Jennifer Falser, Albuquerque Area Office Manager, Bureau of Reclamation, Albuquerque, NM</p> <p>"Partnerships to Provide Water for Agriculture and Ecosystems along the Middle Rio Grande" Casey Ish, Conservation Program Supervisor, Middle Rio Grande Conservancy District, Albuquerque, NM</p> <p>"Environmental and Cultural Flows for the Colorado River in Mexico" Francisco Zamora, Senior Director of Programs, Sonoran Institute, Tucson, AZ</p>
3:00pm - 3:30pm	<p>Coffee Break in Poster & Sponsor Display Area</p>

Monday, April 15, 2024	
3:30pm - 4:50pm	<p>Invasive Species: Proactive and Reactive Approaches to Address Landscape-Scale Threats [Pavilion Ballroom I, II & III]</p> <p>Moderators: Becky Kirby, Southwestern Region Wildlife Ecologist, U.S. Forest Service, Albuquerque, NM Anna Weinberg, Aquatic Restoration Coordinator, Conservation and Adaptation Resources Toolbox/University of Arizona, Tucson, AZ</p> <p>Presenters: "Innovative Tools to Monitor Invasive Grasses and Restore Dryland Ecosystems" Seth Munson, Research Ecologist, U.S. Geological Survey, Flagstaff, AZ</p> <p>"A Balancing Act: Managing Native and Non-Native Fish in Grand Canyon National Park" Sarah Haas, Deputy Chief, Science & Resource Management, Grand Canyon National Park, National Park Service, Flagstaff, AZ</p> <p>"Non-Native Horses and Burros in the Southwest" Tolani Francisco, Wild Horse and Burro Coordinator, U.S. Forest Service, Southwestern Region, Albuquerque, NM</p>
4:50pm - 5:30pm	<p>Regional Plenary Closing & Keynote Presentation [Pavilion Ballroom I, II & III]</p> <p>Moderator: Matt Grabau, NCER Conference Chair, and Adaptive Management Group Manager, Bureau of Reclamation, Lower Colorado River Multi-Species Conservation Program, Tucson, AZ</p> <p>Keynote Speaker: "Historic and Contemporary Water Management in the West" Roque Sánchez, Senior Advisor, Bureau of Reclamation, Washington, DC</p> <p>Closing Remarks and Wrap-Up</p>
5:30pm - 6:30pm	<p>Welcome Networking Social (In the Whyte Room - First Floor Lobby Level)</p>

Tuesday, April 16, 2024	
7:30am-5:00pm	Conference Registration Open
7:30am-8:30am	Coffee Break in Poster & Sponsor Display Area (Breakfast on Own)
8:30am-10:00am	<p>Plenary Session Large Scale Restoration - National Perspectives [Pavilion Ballroom I, II & III]</p> <p>Moderators: Fahmida Khatun, Hydrologist/H&H Modeler, Restoration Sciences Branch, South Florida Natural Resources Center, National Park Service, Boynton Beach, FL Gina Paduano Ralph, Science Integration Branch Chief, Planning Division, U.S. Army Corps of Engineers (USACE), Jacksonville, FL</p> <p>Presenters: Sarah Greenberger, Associate Deputy Secretary, U.S. Department of the Interior, Washington, D.C., Baltimore Area Honorable Michael L. Connor, Assistant Secretary of the Army (Civil Works), Washington, D.C.</p>
10:00am-10:30am	Coffee Break in Poster & Sponsor Display Area

Tuesday, April 16, 2024				
Concurrent Sessions — 10:30am - 12:00noon				
Session 1	Session 2	Session 3	Session 4	
Fiesta Room	Enchantment A & B	Enchantment C&D	Enchantment E&F	
A Laboratory for Learning: Large-Scale Ecosystem Restoration and the Legacy of Secretary Bruce Babbitt	Integrating Restoration and Sustainable Agriculture for Improved Soil Health and Wildlife Habitat	Restoring the Sacramento-San Joaquin Delta and San Francisco Bay: Past, Present, and Future	Human-Built Natural Infrastructure in Dryland Streams (NIDS) – Lessons from the “20-Year Crew” (Part 1 of 2)	
Chad Smith Headwaters Corporation	Jennifer Neale Denver Botanic Gardens	Dylan Chapple Delta Stewardship Council	Laura Norman U.S. Geological Survey	
10:30am	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:35am	Jason Farnsworth, Headwaters Corporation James Lee, Bureau of Reclamation Howard (Howie) Gonzales, USACE William (Bill) Stewart, Bureau of Reclamation From 1993-2001, Interior Secretary Babbitt and his team worked at the cutting edge of developing some of the most unique large-scale restoration programs in the United States. The “big four” programs – the Platte River Recovery Implementation Program; the Trinity River Restoration Program; the Glen Canyon Dam Adaptive Management Program; and the Comprehensive Everglades Restoration Program – became a laboratory for adaptive governance structures and attempts at adaptive management. Still relevant today, the successes and failures of these programs are seen as examples to emulate or avoid, and the lessons learned speak volumes about the future of large-scale restoration programs. Senior agency personnel and managers, decision-makers, science coordinators, and restoration program stakeholders will benefit from this high-level panel discussion.	Larry Vickerman Integrating Natural Areas Management with Small-scale Agriculture and Restoration	Dylan Chapple Bridging the Estuary: The History, Current Status, and Future of Restoration Planning, Policy, and Implementation in The Sacramento-San Joaquin Delta AND San Francisco Bay	Valer Austin Clark Re-Watering the Ground
10:55am	Erik Geyer Enhanced Natural Areas: Impacts on Chatfield Farms	Erik Loboschefsky EcoRestore: Coordinating Large-scale Ecosystem Restoration in the Sacramento-San Joaquin Delta	Florence Cassassuce Building Rock Gabions and Check Dams Supports Sustainable Ecotourism in the Cacachilas Mountain Range, B.C.S., Mexico	
11:15am	Rebecca Hufft Enabling the Study of Multi-trophic Responses in Restoration	Karen Thorne Providing Science to Inform Restoration Efforts Considering Climate Change For the San Francisco Bay-Delta Estuary	Van Clothier Hydrological Restoration of Degraded Grasslands in Arid and Semi-Arid Communities	
11:35am	April Goebel Genetic Variation & Local Climate Adaptation in Grassland Species: Implications for Seed Sourcing	Jason Hassrick Managing Wetlands for Fish and Fowl	A. Thomas Cole Hinge-Felling, Best & Cheapest	
11:55am	Discussion	Discussion	Discussion	
12noon-1:30pm	Lunch on Own			

Tuesday, April 16, 2024				
Concurrent Sessions — 1:30pm - 3:00pm				
	Session 5	Session 6	Session 7	Session 8
	Fiesta Room	Enchantment A&B	Enchantment C&D	Enchantment E&F
	Adaptive Management: Is it Robust Enough to Handle Climate Change?	Comprehensive Everglades Restoration Plan (CERP): Comparison of Predicted and Realized Benefits	California's Agreements for Healthy Rivers and Landscapes: An Historic Approach to Integrating Flows and Habitat	Human-Built Natural Infrastructure in Dryland Streams (NIDS) – Lessons from the “20-Year Crew” (Part 2 of 2)
	David Wegner Woolpert Engineering	Gina Paduano Ralph U.S. Army Corp of Engineers Jacksonville District	Darcy Austin State Water Contractors	Laura Norman U.S. Geological Survey
1:30pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:35pm	<p>Roger Pulwarty, NOAA Kimberly Dibble, USGS Fred Sklar, SFWMD Lorie Staver, University of Maryland</p> <p>This session presents a vigorous discussion about planning, implementation, and use of adaptive management for water system management and whether current approaches robust enough to handle addressing climate change impacts, which are expanding boundaries and uncertainties. System responses are often non-linear and characterized by underlying feedback mechanisms among ecosystem components. The panel will discuss whether the current application of adaptive management has the capacity to integrate the variability and extreme nature of climate change impacts, such as changing thermal conditions, changing intensity of precipitation and runoff events, increased variability of hydrology and unpredictable nature of winds and surges.</p>	<p>Gina Paduano Ralph Comprehensive Everglades Restoration Plan: Framework to Restore, Protect and Preserve America's Everglades</p>	<p>Erik Loboschefskey Historic Agreements for New Instream Flows & Habitat Restoration in California's Bay-Delta Watershed</p>	<p>Allen Haden Lessons Learned using Stream Morphology and Simple Erosion Control Structures from the Past Decade that Improve Longevity and Project Performance</p>
1:55pm		<p>Michael Duever Lessons Learned from 23 Years Restoring a 55,000 Acre Residential Development in Southwest Florida</p>	<p>Lewis Bair Landscape Scale Restoration through Local Implementation</p>	<p>Clark Richins Juniper Tank, Pasture Rehab</p>
2:15pm		<p>Bahram Charkhian Restoration Benefits Observed from the Biscayne Bay Coastal Wetlands Project</p>	<p>Julie Rentner Agreements to Support Healthy Rivers and Landscapes – An Environmental NGO Perspective</p>	<p>Joaquin Murrieta-Saldivar Think Like a Watershed, Act like a River: The Culture of Community Based River Restoration in the Arizona-Sonora, MX Binational Watersheds</p>
2:35pm		<p>Brenda Mills Reducing Uncertainty in the CERP C-111 Spreader Canal Western Project</p>	Discussion	<p>Bill Zeedyk Why the Trilogy Matters: Hydrology, Geomorphology & Ecology</p>
2:55pm		Discussion		Discussion
3:00pm-3:30pm	Coffee Break in Poster & Sponsor Display Area			

Tuesday, April 16, 2024				
Concurrent Sessions — 3:30pm - 5:00pm				
	Session 9	Session 10	Session 11	Session 12
	Fiesta Room	Enchantment A & B	Enchantment C&D	Enchantment E&F
	<p style="text-align: center;">Build It, But Will They Come? Assessing the Benefits of Nearshore Habitat Restoration for Ecosystem Approaches to Fishery and Habitat Management</p> <p style="text-align: center;">Bruce Vogt NOAA Chesapeake Bay Office</p>	<p style="text-align: center;">Achieve Resilient Large-scale Ecosystem Restoration Benefits While Meeting Multipurpose Project Goals</p> <p style="text-align: center;">Andy LoSchiavo U.S. Army Corps of Engineers Jacksonville District</p>	<p style="text-align: center;">Restoration Programs in the Colorado River Basin</p> <p style="text-align: center;">Matthew Grabau Bureau of Reclamation</p>	<p style="text-align: center;">Restoration and Nature-Based Solutions</p> <p style="text-align: center;">Jason Hassrick ICF</p>
3:30pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:35pm	<p>Ian Zink, NOAA Restoration Center DWH Program Lydia Olander, Nicholas Institute at Duke University Jessica Coakley, Mid Atlantic Fishery Management Council</p> <p>This panel session will review approaches to assessing the benefits of habitat restoration with a specific focus on fish use and productivity and how the assessments can be used to advance ecosystem approaches to fishery and habitat management. Panelists in this session will discuss restoration monitoring approaches for quantifying fish use, movement and productivity and how the results of this science can be incorporated into fishery management. The session is relevant to modelers, researchers, and agency managers nationally and can inform future restoration designs.</p>	<p>Gretchen Ehlinger Integrating Flood Risk Management and South Florida Everglades Ecosystem Restoration</p>	<p>M. Tildon Jones Bridging the Gap: Adaptive Management Returns Wild Razorback Sucker to the Upper Colorado River Basin</p>	<p>Billy Johnson Urban Planning With Integrated Natural Systems (UPWINS)</p>
3:55pm	<p>Nancy Gleason Puget Sound Recovery: Partnering with Federal, State, and Tribal Governments on Fish Passage and Nearshore Restoration on Multiple-benefit Projects</p>	<p>Melissa Mata Progress and Recovery in the San Juan River Basin</p>	<p>Katie Warnell Designing a Nature-based Solutions Project Database to Meet Decision-maker Information Needs Related to Restoration Benefits</p>	
4:15pm	<p>Sean Mickal Upper Mississippi River Navigation and Ecosystem Sustainability Program</p>	<p>Jimmy Knowles Lower Colorado River Multi-Species Conservation Program</p>	<p>Amy Chadwick Partnerships and Nature-Based Restoration in Mitigation Banking Projects</p>	
4:35pm	<p>David Smith Ecohydraulics and its Application to Ecosystem Restoration and Maintaining Water Resource Infrastructure</p>	<p>Karl Flessa The Binational Effort to Restore the Colorado River Delta</p>	<p>Juan Rovalo Nature Positive, Recovering Ecological Function and Multiple Benefits in the Built Environment</p>	
4:55pm	Discussion	Discussion	Discussion	
5:00pm-6:30pm	<p>Featured Film Screening - Hosted by Freshwaters Illustrated Founder, Jeremy Monroe [Grab a drink at the 1922 Bar & Lounge and join us in the Fiesta Ballroom at 5:00pm for mingling and conversation.]</p> <p>Films create immersive visual stories that introduce viewers to the beauty, wonder, and value of freshwater ecosystems. Join us for a sneak preview of a forthcoming film featuring river conservation in the Southwest, followed by a full-length viewing of UPRIVER, a 'watershed film' that explores one of the Nation's most active river conservation movements. UPRIVER shares the story of Oregon's Willamette River system, and how scientists, restoration professionals, and community members came together to revive the health of this large river and the life it supports.</p>			

Wednesday, April 17, 2024	
7:30am-5:00pm	Conference Registration Open
7:30am-8:30am	Coffee Break in Poster & Sponsor Display Area (Breakfast on Own)
8:30am-10:00am	<p>Plenary Session Tribal Perspectives on Ecosystem Restoration [Pavilion Ballroom I, II & III]</p> <p>Moderators: Darcy Austin, Science Manager, State Water Contractors (SWC), Sacramento, CA Chad Smith, President, Headwaters Corporation, Kearney, NE</p> <p>Presenters: Aimee Roberson, Director, Southwest Region, American Bird Conservancy, Rio Arriba County, NM Tina Marie Osceola, Director, Tribal Historic Preservation Office, Seminole Tribe of Florida, Naples, FL</p>
10:00am-10:30am	Coffee Break in Poster & Sponsor Display Area

Wednesday, April 17, 2024				
Concurrent Sessions — 10:30am - 12:00noon				
	Session 13	Session 14	Session 15	Session 16
	Fiesta Room	Enchantment A&B	Enchantment C&D	Enchantment E&F
	Mitigation and Public Lands: How Good Business and Good Restoration Can Expedite Ecosystem Recovery	Building Resiliency with Everglades Restoration	Challenges and Opportunities in Large River Restoration	Science and On The Ground Actions to Restore Beavers In Coastal and Dry Land Ecosystems: Building Resilient Systems in Our Anthropocene Era (Part 1 of 2)
	Lindsay Teunis SWCA Environmental Consultants	Fahmida Khatun National Park Service	Chad Smith Headwaters Corporation	Anne Shaffer Coastal Watershed Institute
10:30am	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:35am	<p>Michelle Mattson, USACE IWR Jeremy Sueltenfuss, Colorado State University Deblyn Mead, BLM George Kelly, Earth Recovery Partners</p> <p>Federal, state, and local public lands exist in a degraded state with inadequate funding for restoration and management. Since 2019 a national group of regulators, land managers, consultants, investors and mitigation bankers have explored the hurdles and solutions to compensatory mitigation on public lands. In this session, panelists will share a pending white paper, a series of case studies, and discuss why expediting an influx of private dollars on public lands is critical to local and global ecosystem recovery.</p>	<p>Jason Engle Merging Lessons-Learned on System Resilience and Applying Those to a New Generation of Water Resources Projects</p>	<p>Robert Jacobson Not Too Big to Fail – The Missouri River Recovery Program</p>	<p>Sarah Milligan Beaver Restoration in Bandelier National Monument</p>
10:55am		<p>Fred Sklar Building Adaptive Foundational Resilience for Coastal Wetlands: An Everglades Experiment</p>	<p>Libby Casavant Evaluation of Sediment Augmentation in the Central Platte River, NE, USA</p>	<p>Laura Norman Beaver Dams and Their Analogs Are Natural Infrastructure in Drylands Streams (NIDS): A Synthesis</p>
11:15am		<p>Stephanie Romañach Everglades Ecosystem Restoration and Management Under Climate Change</p>	<p>Jeanne Godaire Collaborative Problem Solving in the Colorado River Basin: An Approach to Co-Developing Solutions</p>	<p>Emily Fairfax Smokey the Beaver: How Beavers Build Fire-resistant Riverscapes</p>
11:35am		<p>Jed Redwine and Andrea Nocentini Wetland Restoration as an Act of stewardship - a Seminole Perspective</p>	<p>Noelle Patterson Reimagining the San Joaquin River Using the EcoFIP Framework to Reconnect Floodplains</p>	<p>Anne Shaffer Coastal Beaver, Chinook, Coho, Chum Salmon and Trout Response to Nearshore Changes Resulting from Diking and Large-Scale Dam Removals: Synergistic Ecosystem Engineering and Restoration in the Coastal Zone</p>
11:55am		Discussion	Discussion	Discussion
12noon-1:30pm	Lunch on Own			

Wednesday, April 17, 2024				
Concurrent Sessions — 1:30pm - 3:00pm				
	Session 17	Session 18	Session 19	Session 20
	Fiesta Room	Enchantment A&B	Enchantment C&D	Enchantment E&F
	Strategies for Collaborative Conservation in North American Grasslands	Why Understanding The Past Is Critical for Restoration: The Role of Conservation Paleobiology (Part 1 of 2)	Tribal Partnerships and Perspectives for Ecosystem Restoration	Beavers & People: Societal Challenges & Effective Solutions to Advance Ecosystem Restoration (Part 2 of 2)
	Karlee Jewell U.S. Fish & Wildlife Service	Lynn Wingard U.S. Geological Survey	Drew Minert U.S. Army Corps of Engineers, Omaha District	Alexa Whipple Methow Beaver Project
1:30pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:35pm	<p>Ariel Léger, CART, Conservation and Adaptation Resources Toolbox Scott Feldhausen, BLM Julia Guglielmo, Altar Valley Conservation Alliance Robert Perez, Oaks and Prairies Joint Venture</p> <p>Participants will hear from those taking diverse approaches to grassland restoration leading efforts to coordinate landscape scale grassland restoration efforts in the central and western US. Presenters will share strategies they are using to increase coordination and address priority issues in their respective regions, and lessons learned from coordination within their region and between grassland biomes, so participants can implement them to improve coordination and outcomes of on-the-ground restoration and management activities in their regions of interest.</p>	<p>Michal Kowalewski What Does the Quaternary Fossil Record Tell Us about Marine Extinctions Threats?</p>	<p>Drew Minert Overview of U.S. Army Corps of Engineers Tribal Partnership Program and Working with Tribal Nations</p>	<p>Elyssa Kerr Beaver Coexistence: A Lesson in Innovation, Adaptation, and Compromise</p>
1:55pm		<p>Broc Kokesh Monitors with Memories: Death Assemblages Record a Century of Wastewater Pollution and Remediation</p>	<p>Greg Johnson & Joel Bich Partnering with the Lower Brule Sioux Tribe for Ecosystem Restoration and Natural Resources Preservation near Lower Brule South Dakota</p>	<p>Alexa Whipple It's About Dam Time to Modernize Beaver Management through Watershed-Wide Policy Change</p>
2:15pm		<p>Gregory Dietl Responses of Molluscan Communities to Improved Water Quality in Long Island Sound</p>	<p>Stephanie McKenna Ecosystem Restoration along the Rio Grande and Tributaries, Espanola, NM</p>	<p>Adam Burnett Building Bridges for Beavers - A Continental Coexistence Collaboration</p>
2:35pm		<p>Matthew Pruden Developing a Molluscan Biotic Index for Establishing Geohistorical Baselines of Benthic Conditions</p>	<p>Cindy Thomas Perspectives on the Comprehensive Everglades Restoration Plan Implementation Process</p>	<p>Brock Dolman Bringing Back Beaver in California: Lessons Learned from Changing Perceptions, Practices and Policies</p>
2:55pm		Discussion	Discussion	Discussion
3:00pm-3:30pm	Coffee Break in Poster & Sponsor Display Area			

Wednesday, April 17, 2024				
Concurrent Sessions — 3:30pm - 5:00pm				
	Session 21	Session 22	Session 23	Session 24
	Fiesta Room	Enchantment A&B	Enchantment C&D	Enchantment E&F
	The Urgency of Urban Ecosystem Restoration - Strategies and Motivations on the East Coast	Why Understanding The Past Is Critical for Restoration: The Role of Conservation Paleobiology (Part 2 of 2)	Environmental Modeling of Aquatic Systems for Ecosystem Restoration and Management	Data-Driven Natural Capital Valuation to Optimize Value and Ecological Uplift Potential on Private Lands
	Marit Larson New York City Department of Parks & Recreation	Erin Dillon Smithsonian Tropical Research Institute	Michael D. Porter U.S. Army Corps of Engineers Sacramento District	Randy Mandel Montrose Environmental Solutions
3:30pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:35pm	Pippa Brashear , SCAPE Studio Terry Doss , New Jersey Sports and Exposition Authority (NJSEA) James Duncan , Miami-Dade County Division of Environmental Resource Management Sarah Charlop-Powers , Natural Areas Conservancy	Stephen Durham Using Death Assemblages to Fill Historical Data Gaps and Estimate Long-Term Trends in Oyster Size	Jodi Ryder Water Quality Monitoring and Models for Decision Making	Andrew Bechard Natural Capital Valuation to Optimize Value on Private Lands
3:55pm	This session will take a broad look at urban restoration planning and design strategies and actions, with a focus on how they have changed over the last ten years. Panelists will provide perspectives on how restoration approaches transcend habitats at the landscape scale (e.g. from upland forest to coastal wetlands) while also interacting with dense urban development with studies in New York City, Miami and other urban areas and discussions to provide participants with actionable insights and tools to consider for their own cities.	Steven Mendoza Understanding Botanical Traits of Rancho La Brea Fossils for Conservation Purposes	Todd Steissberg Interdisciplinary Environmental Models: Water Quality, Hydrology, Hydraulics	Bea Covington Incentivizing Private Landowners to Invest in Ecosystem Restoration
4:15pm		Maria Viteri Assessing Large-scale Restoration Options using Fossil Data, Elk as a Case Study	Aubrey Harris The Habitat Suitability Index: Strengths, Weaknesses, and Emerging Opportunities via Model Validation	Rebecca Parsons Innovative On-Site and Remote Modeling Techniques to Quantify Biodiversity and Pollinator Habitat Potential
4:35pm		Panel Discussion	Michael Porter Fish Habitat Modeling on the Sacramento River	Randy Mandel Assessment of Biodiversity and Ecological Uplift Potential to Leverage Natural Capital
4:55pm		Discussion	Discussion	
5:00pm-8:00pm	Poster Session and Networking Reception			

Thursday, April 18, 2024				
7:30am - 5:00pm	Conference Registration Open			
7:30am - 8:30am	Coffee Break in Poster & Sponsor Display Area (Breakfast on Own)			
8:30am - 10:00am	Concurrent Sessions — 8:30am - 10:00am			
	Session 25	Session 26	Session 27	Session 28
	Fiesta Room	Enchantment A&B	Enchantment C&D	Enchantment E&F
	Tools for Complex Large-Scale Ecological Restoration	Integrating Our Values into Ecosystem Restoration: Qualitative and Quantitative Techniques	New Approaches to Restoration Monitoring in Dryland Streams	Small Stream, Big Challenges – Exploration of an Urban Stream Restoration Project
	Michelle Jeffries U.S. Geological Survey	Aubrey Harris U.S. Army Engineer Research and Development Center (ERDC) Environmental Lab	Eliza Gilbert University of New Mexico	Josh Burch D.C. Department of Energy and Environment
8:30am	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
8:35am	John Wolf Accelerated Chesapeake Restoration through Multi-Objective Targeting	Aubrey Harris Assessing the Social Suitability of Managed Aquifer Recharge Sites	Thomas Turner Stable Isotopes and Museum Samples Provide Baselines and Metrics for River Restoration	Matthew English Metrics for Success – Pre- & Post-Restoration Monitoring of Urban Streams
8:55am	Jan-Willem Jansens Restoring Ecological Functions From Landscape-Scale to Site-Scale in the Embudo Valley, New Mexico	Paul Grams Colorado River Basin Aridification and Resource Management in Grand Canyon	Gregor Hamilton How Connected are Your Food Webs? How to Include Hydrogen Stable Isotopes in Stream Restoration Monitoring	Josh Burch Small Stream, Big Challenges
9:15am	Nick Legg How Much Room Does a River Need? Approaches From Floodplain Restoration in the Pacific Northwest	Paul Tashjian A Collaborative Process for Determining Environmental Flow Recommendations for the Rio Grande in New Mexico	Eliza Gilbert An Analogy to the Natural Flow Regime: Quantification of River Drying with Satellite Imagery	Joe Arrowsmith Designing for Functional Uplift in Degraded Urban Streams
9:35am	Michelle Jeffries Accessible Adaptive Management: An Introduction to the Land Treatment Exploration Tool	Brian Zettle Incorporating Tribal Perspectives, Treaty Rights, and Knowledge in Ecosystem Restoration	Katelyn Driscoll and Laurel Martinez Process-based Stream Restoration Effectively Alters Riparian Plant Functional Traits and Functional Diversity	Donna An Synergistic D/B/M Team, the Foundation to Transformative Restoration
9:55am	Discussion	Discussion	Discussion	Discussion
10:00am - 10:30am	Coffee Break in Poster & Sponsor Display Area			

Thursday, April 18, 2024					
Concurrent Sessions — 10:30am - 12:00pm					
Session 29		Session 30		Session 31	Session 32
Fiesta Room		Enchantment A&B		Enchantment C&D	Enchantment E&F
Overcoming Restoration Challenges in the Great Lakes Region		Statewide Wetland Investment for Nutrient Removal: The H2Ohio Initiative Restoration & Monitoring Programs		Holistic Environmental Decision-Making Using Ecosystem Services	Evolution of Restoration along the Middle Rio Grande
Timothy Lewis, Sr. General Dynamics Information Technology (GDIT)		Lauren Kinsman-Costello Kent State University		Brook Herman U.S. Army Engineer Research and Development Center	Linnea Spears-Lebrun SWCA Environmental Consultants
10:30am	Introduction & Overview		Introduction & Overview		Introduction & Overview
10:35am	Matthew Jurjonas A Human Wellbeing Evaluation Framework for Ecosystem Restoration		Eric Saas The H2Ohio Initiative Restoration Program: An Ohio Partnership for Better Water Statewide		Brook Herman Assessing the Value of Ecosystem Services for Resource Management Decision Making
10:55am	Peter Smiley, Jr. Challenges for Restoring Agricultural Headwater Streams in the Midwest		Melanie Coulter Wetland Restoration in the Great Black Swamp		Lisa Wainger Developing and Testing a USACE Ecosystem Services Analysis Framework
11:15am	Meredith Holm Great Lakes Pollinator Task Force: Collaboration to Overcome Conservation Challenges		Lauren Kinsman-Costello Evaluating Nutrient Function Across Diverse Wetland Restoration, Construction, and Enhancement Projects: The H2Ohio Wetland Monitoring Program, Ohio, USA		Kat McCain Applying Ecosystem Goods and Services to Plan Army Corps of Engineers Aquatic Ecosystem Restoration Projects
11:35am	Timothy Lewis, Sr. Build It and They Will Come, <i>If it's Built Correctly</i> : Quality Control during Construction of Restoration Projects		Olivia Johnson Cultivating Science-Policy-Practitioner Partnerships in Wetland Restoration		Charles Theiling Dredge Placement Beneficial Use Comprehensive Benefits Tool
11:55am	Discussion		Discussion		Discussion
12noon-1:30pm	Lunch on Own				

Thursday, April 18, 2024				
Concurrent Sessions — 1:30pm - 3:00pm				
	Session 33	Session 34	Session 35	Session 36
	Fiesta Room	Enchantment A&B	Enchantment C&D	Enchantment E&F
	Modeling and Machine Learning: Applications for Assessing Effects of Climate Change	South Texas Bahia Grande Wetland Complex Restoration, Partnerships, and Studies	Building Resiliency into Ecosystem Management Projects: Case Study of Marsh Lake	Middle Rio Grande: Restoration, Long-term Citizen Science, Education, and Partnership
	Reed Thayer Jacobs	Allison Fischer Texas General Land Office	Kevin Bigalke U.S. Army Corps of Engineers St. Paul District	Ondrea Hummel TetraTech
1:30pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:35pm	Lewis Linker Assessment of Chesapeake Climate Change Using a Suite of Airshed, Watershed, and Estuary Models	Josh Carter One of the Largest Coastal Wetland Restoration Projects in the United States: The Bahia Grande Hydrologic Restoration Project	David Potter Creating Resiliency at Marsh Lake: Reverting a Shallow Freshwater Lake from a Turbid to Clear Water State	Ondrea Hummel Two Decades of Restoration in the Middle Rio Grande
1:55pm	Maria Teresa Hernandez Modeling the Effects of Climate Change and Potential Management Interventions on Pinyon Juniper Woodland Distribution Using Aerial Imagery	Jude Benavides & Sabas Lopez Flow Monitoring and Tidal Exchange Ratio Estimation for the Bahia Grande Bay and Coastal Wetland System Post-Tidal Connection Channel Widening	Kevin Hanson Tasking High-Resolution Satellite Imagery for Monitoring Ecosystem Projects	Stephanie Jentsch Using Long-term Community Science Monitoring to Inform Middle Rio Grande Bosque Restoration
2:15pm	Andrew Reicks Quantifying Ecosystem Health and Carbon Capture of Coastal Restoration Using Drones and Machine Learning	David Hicks Post-Channel Widening Water Quality Monitoring at Bahia Grande, Cameron County, Texas	Walt Gessler Marsh Lake – Project History, Vegetative Response, Monitoring and Observations of Fisheries and Shorebirds	Todd Caplan Monitoring and Adaptive Management Saves Money and Extends Functional Life of Middle Rio Grande Habitat Restoration Projects
2:35pm	Elizabeth Murray Leveraging Hydrologic Models to Compare Ecosystem Restoration Measures in a Bar-Built Estuary	Jamie Schubert Deepwater Horizon Restoration. Ecosystem Scale Restoration in Texas's Bahia Grande	Dan Kelner Restoring Aquatic Connectivity to a Historic Reach of the Pomme de Terre River and the Rapid Colonization of Freshwater Mussels and Fish	Ara Winter Bosque Ecosystem Monitoring Program - The Critical Role of Education, Equity, and Community/Citizen Science in Modeling Vegetation Response to Ecosystem Drivers
2:55pm	Discussion	Discussion	Discussion	Discussion
3:00pm-3:20pm	Coffee Break in Poster Hall & Sponsor Display Area <i>(NOTE: This break is 20 minutes long.)</i>			

Thursday, April 18, 2024				
Concurrent Sessions — 3:20pm - 4:30pm				
	Session 37	Session 38	Session 39	Session 40
	Fiesta Room	Enchantment A&B	Enchantment C&D	Enchantment E&F
	Tools to Support Ecosystem Monitoring and Evaluation	Ecosystem Restoration in Action: Access for All	Emerging Policy and Legal Challenges for Ecosystem Restoration	Large-Scale Adaptive Management from Planning to Evaluation
	Andrew Reicks Sky Wave at CDM Smith	Darcy Austin State Water Contractors	Becca Madsen Environmental Policy Innovation Center (EPIC)	Ryan Clark Half, Inc.
3:20pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:25pm	Roy Petrakis Remote Sensing of Evapotranspiration to Assess Water Budget Response Across a Restoration Landscape	Ariel Elliott Community-based Conservation: Making a Community's Vision of a Refuge a Reality (Part 1)	Alicia Marrs Implications of Sackett vs. EPA for Ecosystem Restoration: Lanes of Response to Protect Our Waters and Wetlands	Gretchen Ehlinger Updating a System-Wide Monitoring and Assessment Plan for a Large-Scale Ecosystem Restoration Project
3:45pm	Eric Swain A Hydrodynamic Surface-Water/Groundwater Salinity-Transport Model for Biscayne Bay and the Southeastern Everglades Restoration	Cameron Weber Community-based Conservation: Making a Community's Vision of a Refuge a Reality (Part 2)	Lydia Olander How Advances in Federal Benefit Cost Analysis and Natural Capital Accounting Will Impact Restoration	Natascia Tamburello Dam Removal and the Klamath Basin Integrated Fisheries Restoration and Monitoring Plan (Part 1)
4:05pm	Lindsey Bunting Automated Monitoring to Support Adaptive Management of Actively Managed Riparian Restoration Areas	Nathalie Hamel Vital Signs and Vibrant Lives: Ecosystem Restoration and Wellbeing in Puget Sound	Becca Madsen More Nature, Less Paperwork: Insights from Research on Streamlining Permits for Restoration Projects	Clint Alexander Dam Removal and the Klamath Basin Integrated Fisheries Restoration and Monitoring Plan (Part 2)
4:25pm	Discussion	Discussion	Discussion	Discussion
4:30pm - 5:30pm	Closing Plenary and Keynote Speaker [Pavilion Ballroom I, II & III]			
	Moderators: Nick Aumen , Regional Science Advisor, South Florida Region, U.S. Geological Survey, Davie, FL Matt Grabau , NCER Conference Chair, and Adaptive Management Group Manager, Bureau of Reclamation, Lower Colorado River Multi-Species Conservation Program, Tucson, AZ			
	Closing Keynote Speaker: Secretary Deb Haaland , U.S. Department of the Interior, Washington, D.C.			
Friday, April 19, 2024				
7:30am - 2:00pm	OPTIONAL POST-CONFERENCE FIELD TRIP: Valle de Oro National Wildlife Refuge and Rio Grande Valley State Park [Morning refreshments are available for field trip attendees in the Enchantment Ballroom Foyer prior to boarding the bus.]			
	This tour begins with an orientation while on the bus traveling to the site. A welcome presentation will be provided by U.S. Fish and Wildlife Service (USFWS) staff. While onsite, participants will take part in a walking tour (~ 1.7 miles) featuring stops at restoration sites including floodplain habitat, irrigation infrastructure, and stormwater features being used as waterflow and native avian habitat. At the end of the tour, participants will be taken to the Visitor Center for lunch and time will be giving to visit the surroundings and gift shop.			
2:00pm	NCER 2024 Concludes			