

ACES 2024 — Tentative Agenda

A Community on Ecosystem Services

Monday, December 9, 2024

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| 11:00am - 5:30pm | Conference Registration Open Space Available for Impromptu Meetings |
| 2:00pm - 5:00pm | Exhibitors and Poster Presenters Move-in Displays |
| 3:00pm - 5:00pm | OPTIONAL PRE-CONFERENCE WORKSHOP "Working with Tribal Governments" [There is no charge to participate. Attendance is limited. Advance registration required by November 15, 2024.] This informative session conducted by trainers from The Whitener Group and The Nature Conservancy will present the origins and application of the popular "Indian Country 101" training curriculum, emphasizing the importance of establishing a foundation of knowledge about tribal governments before advancing to more comprehensive partnership and engagement initiatives. Visit the ACES website for more information https://conference.ifas.ufl.edu/aces/pre-conference-training-session.php |
| 5:00pm - 6:00pm | Welcome Networking Social in the Poster Hall |

Tuesday, December 10, 2024

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| 7:30am - 5:00pm | Conference Registration Open Space Available for Impromptu Meetings |
| 7:30am - 8:30am | Morning Refreshments and Poster Set-Up (<i>Exhibit Hall</i>) |
| 8:30am - 9:45am | Opening Plenary Session (Grand Ballroom A) Moderator: Dr. Marc Russell U.S. Environmental Protection Agency Plenary Session Schedule: 8:30am Welcome from Organizers 8:40am Introduction and Overview by Moderator 8:45am Speaker Presentations SPEAKERS: Dr. Daniel R. Wildcat (Yuchi, Muscogee), Professor, Scholar, and Coauthor of <i>Power and Place: Indian Education in America</i> Haskell Indian Nations University, Lawrence, Kansas Dr. Sonny Ramaswamy , President Northwest Commission on Colleges and Universities, Redmond, Washington |
| 9:45am - 10:15am | AM Break in the Exhibit Hall |

Tuesday, December 10, 2024 (continued)

Concurrent Sessions - 10:15am - 12noon

| | Session 1 | Session 2 | Session 3 | Session 4 | Session 5 |
|----------------|--|--|--|--|---|
| | SABINE | TRINITY A | TRINITY B | SAN ANTONIO | PECOS |
| | Incorporating Ecosystem Services in Federal Decision-Making | A Comprehensive Look at Ecosystem Service Valuation in Sanctuaries and the Great Lakes | Investing and Putting Nature to Work | Bringing it All Together: How Do We Establish Systems of Ecosystem Services for Ongoing Monitoring? | Graduate Training in Ecosystem Services and Related Sciences |
| | Emily Pindilli Executive Office of the President, Office of Science & Technology | Danielle Schwarzmann NOAA Office of National Marine Sanctuaries | Ben Sherrouse U.S. Geological Survey | Gretchen Greene Greene Economics LLC | Ray Ali USDA-NIFA |
| 10:15am | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview |
| 10:20am | PANELISTS: Matthew Oreska , OMB Christian Crowley , DOI Kate Quigley , NOAA Travis Warziniack , FS | PANELISTS: Robert C. Burns , WVU Charles Goodhue , ERG Lou Nadeau , ERG Jeff Gray , NOAA TBNMS | Ken Cousins Valuing the Co-Benefits of Source Water Protection: Modeling the Effects of Forest Management on Ecosystem Services | Bea Covington Positioning State Lands for the Energy Transition | Anita Antoninka Training Culturally Responsive Leaders for Managing Resilient Forests |
| 10:40am | This panel will focus on ecosystem services used by federal agencies in decision-making. Topics include the OMB's Ecosystem Services Guidance and the National Science and Technology Council Subcommittee on the Frontiers of Benefit-Cost Analysis. Agency representatives will provide perspective on the state of ecosystem services research and use in regulatory decisions. | This panel will focus on methods and outcomes used in ecosystem service valuation to inform the decision making process. Panelist discussion will heavily draw from work from the National Oceanic and Atmospheric Administration and the National Marine Sanctuary Foundation that is supporting the Sanctuary designation process. | Glen Delaney The Value of Restoring Forested Wetlands: The Avahoula Climate Mitigation Project | Juliet Sinisterra Mimicking Historical Ecology for Urban Ecosystem Service Targets and Metrics | Yoko Kusunose A Nationally Recognized Master's Program for Extension Training in Agricultural Economics |
| 11:00am | | | Mila Pruiett Building Resilience to Climate Change in the Colorado River Basin | Michele Arquette-Palermo Model to Mishap: Making a Case for Protection of Water Quality in Southwest Florida | Zakiya Leggett Forestry of the Future: Improving Student Readiness and Workforce Participation of Underrepresented Minority Populations in Forest Resources |
| 11:20am | | | Laila Racevskis Cost-Effectiveness of Natural Resource-Based Adaptation Strategies in the Florida Keys | Sabine Postma Accounting for Ecosystem Services via Sustainability Frameworks in Canada | Krishnaswamy Jayachandran Graduate Training in Agroecology |
| 11:40am | | | Mark Ducey Silvicultural Principles for Northern Forest Restoration Based on Financial Productivity and Avian Functional Diversity | Susan Burke Environmental Accounting and Measuring Change and Improvement | Sarah Castle Agroforestry Transitions: Opportunities and Barriers to Agroforestry Adoption in Illinois |
| 12:00pm-1:00pm | | | Lunch Buffet Provided in Exhibit Hall | | |

Tuesday, December 10, 2024 (continued)

Concurrent Sessions - 1:00pm - 2:45pm

| | Session 6 | Session 7 | Session 8 | Session 9 | Session 10 |
|-----------------|---|--|---|--|--|
| | SABINE | TRINITY A | TRINITY B | SAN ANTONIO | PECOS |
| | Progress on Bipartisan Infrastructure Law and Inflation Reduction Act Implementation | The North American Great Lakes: Powering the Economic Engine in the Region | Investing in Equity and Agriculture: USDA-Funded Collaborations at Hispanic-Serving Institutions | Recent Scientific Advances in Forest Ecosystem Management for Numerous Ecosystem Services | Tools and Approaches Measurements |
| | Marc Russell US EPA | Rajendra Poudel International Joint Commission / Great Lakes Regional Office | Irma Lawrence USDA-NIFA | Diomides (Diomy) Zamora USDA-NIFA | Alanna Shapiro Florida Atlantic University |
| 1:00pm | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview |
| 1:05pm | Nausheen Iqbal Inflation Reduction Act Investments in Urban and Community Forestry | PANELISTS: Roy Brouwer , University of Waterloo John Livernois , University of Guelph Salim Hayder , Division of Fisheries and Oceans Kate Quigley , NOAA The panel session will focus on sharing best practices, lessons learned, and concerted efforts that the United States and Canada are working on to fulfill the Great Lakes water Quality Agreement (GLWQA). This panel session offers insights on how the US\$6 trillion vibrant economy of the North American Great Lakes is accelerating the growth of regional economy, conserving aquatic, terrestrial and atmospheric environments & wildlife, and safeguarding the Indigenous culture. | Alok Arun Farming for Future: Integrated Interventions to Improve Student Success and Experimental Learning in Controlled Environmental Agriculture | Brian Connolly Context Matters: Adapting Vegetation Management Strategies to Various Forest Types | Mustapha Alhassan Application of a Use Estimating Model in Reservoir Recreation Benefits Estimation |
| 1:25pm | Gayle Barry USDA-NRCS and the Inflation Reduction Act | | Mahadev Bhat Enhancing Agri-Education and Diversity through Multistate Collaborative Approach | Solomon Dobrowski Quantitative Prediction, Prioritization, and Decision Support for Reforestation Efforts in the Western USA | Robert Botta The Challenges of Valuing Ecosystem Services: Qualifying the Benefits of Science and Conservation |
| 1:45pm | Astrid Martinez USDA-NRCS and the Bipartisan Infrastructure Law | | Bob Vasquez Caminos For Success: An Overview and Lessons Learned | Akihiro Koyama Investigation of Mechanisms for Oak Seedling Success Under Pine in the Lake States Region | Diana Del Angel Socioeconomic Outcomes of Oyster Reef Restoration Projects: Case Study of Galveston Bay, TX and Calcasieu Lake, LA |
| 2:05pm | Jessica Grannis NOAA's BIL-IRA Investments in Nature-Based Solutions | | Shad Nelson Getting Occupational Student Training in Agricultural Research Through Novel Workshops | A. Christopher Oishi Quantifying Changes in Evapotranspiration and Carbon Sequestration in a Restored Longleaf Pine System | Angela Fletcher Outdoor Recreation on State Lands in Washington: What Mobile Device Data Reveal About Visitation |
| 2:25pm | George Gardner Valuing the Wetlands Ecosystem Services Using Meta-Regression: Applications to Bipartisan Infrastructure Law Grant-Funded Projects | Tanner Machado Manager Education and Agriculture Technical Skills Workforce | Kathleen Conroy Forest Management Impacts on Ecosystem Services – A Bayesian Belief Network Approach | Darius Semmens A Tiered Assessment Framework for Interregional Flows of Ecosystem Services from Migratory Species | |
| 2:45pm - 3:15pm | PM Break (Exhibit Hall) | | | | |

Tuesday, December 10, 2024 (continued)

Concurrent Sessions - 3:15pm - 5:00pm

| | Session 11 | Session 12 | Session 13 | Session 14 | Session 15 |
|-----------------|---|---|---|---|---|
| | SABINE | TRINITY A | TRINITY B | SAN ANTONIO | PECOS |
| | Decolonizing Ecosystem Valuation and Environmental Management | Rewilding the Shoreline: Biodiverse Infrastructure on Lake Erie's Waterfront | Emerging Technologies and Their Implications for the Provisioning of Ecosystem Services to People | Community and Ecological Resilience | Tools and Approaches for Valuation |
| | Nejem Raheem Emerson College | Daniel Affleck NBBJ | Megan Rippy Virginia Tech | Tammy Newcomer- Johnson US EPA | Zachary Ancona United States Geological Survey |
| 3:15pm | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview |
| 3:20pm | <p>PANELISTS:</p> <p>Erin Genia, MIT Doreen E. Martinez, Colorado State University Ronee Penoi, Emerson College</p> <p>This panel will focus on: The term "Decolonization" is used in many fields, but has made few inroads into ecosystem valuation and management. Indigenous communities often see natural resources and ES in ways that federal or state agencies are just coming to explore or know. It is crucial to build mutual respect and comprehension of these knowledges and practices to effectively and ethically incorporate values into policy and management.</p> | <p>PANELISTS:</p> <p>Jennifer Grieser, Cleveland Metroparks Allison Lukacsy-Love, Greater Cleveland Partnership Kevin Grieser, Biohabitats Gordon Thomson, P.E., BC.CE, Baird & Associates</p> <p>This session will highlight three Lake Erie waterfront projects where built infrastructure enhances natural systems to build climate resilience. We will explore soft engineering techniques, from design to construction, and discuss installation, operations, and lessons learned. Additionally, we'll provide context by examining the history of Lake Erie's waterfront urbanization, the harmful effects of habitat fragmentation, and the accelerating impacts of climate change. We'll also examine public-private partnerships, policies, and funding strategies for reconnecting fragmented shorelines.</p> | <p>Tripp Shealy Embodied Virtual Reality: The Impacts on Human-Nature Connection and Nature-Based Stormwater Solutions</p> | <p>Nesisa Analisa Nyathi Perceptions of Cultural and Provisioning Ecosystem Services and Human Wellbeing Indicators Amongst Indigenous Communities Neighboring the Greater Limpopo Transfrontier Conservation Area</p> | <p>Lucila Corro Increasing Accuracy of National-Scale Urban Ecosystem Service Accounts</p> |
| 3:40pm | | | <p>Megan Rippy Leveraging Virtual Spaces for Human-Centered Design</p> | <p>Catherine O'Reilly gROWing Chicago Habitat and Developing a Habitat Network for the Chicago Wilderness Region</p> | <p>Jeffrey Kline Update of the Recreation Use Values Database for Estimating Outdoor Recreation Benefits</p> |
| 4:00pm | | | <p>Megan Blumenauer Leveraging Virtual Reality for Green Infrastructure Design: Implications for the Cultural Services Aesthetics & Sense of Place</p> | <p>Maxwell Perkins Exploring the Potential Energy Resilience Benefits of Coastal Ecosystems and Protected Areas in Puerto Rico</p> | <p>Simone Maynard An Assessment and Valuation of Ecosystem Services Derived from National Parks in Queensland (Australia)</p> |
| 4:20pm | | | <p>Mark Lindquist Increasing Co-Benefits of Green Infrastructure Using Interactive Decision Support Systems</p> | <p>Hamid Arrum Harahap No Cent in Incentives: Sustaining Ecosystem Services Through Indigenous Payment Practices in Tapanuli, Indonesia</p> | <p>Barbara Wyse Payments for Ecosystem Services from Agricultural Conservation Practices in Oregon</p> |
| 4:40pm | | | <p>Stanley Grant Smart and Green: Water Supply and Stormwater Retention Benefits of Real Time Control in Different Climate Regimes</p> | <p>Hebin Lin Sustainability and Resilience: An Ecosystem Service Perspective for the National Environmental Policy Act</p> | <p>Elanur Ural Using SEEA EA in Valuing Fisheries: Deriving Exchange Values of Nearshore Fisheries for the Main Hawaiian Islands</p> |
| 5:00pm - 6:00pm | Welcome Reception | | | | |

Tuesday, December 10, 2024 (continued)

Pollinator Workshop

Bees and other pollinators are critical to ecosystem health and our food supply. Despite significant advances in science, in many areas pollinators are in decline.

We are interested in advancing a science-based conversation that will support better metrics and business models to promote investments in pollinators.

Come to this Pollinator Mixer to hear perspectives from the private sector, Federal agencies, practitioners and researchers and to share your own thoughts on general principles that land managers can use to support pollinators.

6:00pm - 7:00pm

Wednesday, December 11, 2024

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|---|--|--|---|--|--|
| 7:30am-5:30pm | Conference Registration Open Space is Available for Impromptu Meetings | | | | |
| 7:30am-8:30am | Morning Refreshments - Exhibit Hall | | | | |
| Concurrent Sessions - 8:30am - 10:15am | | | | | |
| | Session 16 | Session 17 | Session 18 | Session 19 | Session 20 |
| | SABINE | TRINITY A | TRINITY B | SAN ANTONIO | PECOS |
| | Leveraging Federal Guidance and Tools for Assessing Ecosystem Services | Creating Space for Diverse Knowledge Systems and Plural Values in Federal Resource Management | Geospatial Big Data and Machine Learning for Quantifying Ecosystem Services and Biodiversity | Value of Forests and Risks They Face | “Where” Matters! Better Measuring, Monitoring and Modeling of Carbon and GHG Cycles in Landscapes |
| | Kelly Garbach USDA-NIFA | Sarah Wise AFSC-NOAA | Chang Zhao University of Florida | Travis Warziniack US Forest Service | Terry Nipp Texas A&M/AgMIP |
| 8:30am | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview |
| 8:35am | PANELISTS: Lydia Olander , National Ecosystem Services Partnership; Nicholas Institute for Energy Environment & Sustainability at Duke University Fushcia-Ann Hoover , University of North Carolina Leah Sharpe , U.S. EPA, Gulf Ecosystem Measurement and Modeling Division Tammy Newcomer-Johnson , U.S. EPA, Center for Environmental Measurement and Modeling | PANELISTS: Carolina Behe , Office of National Marine Sanctuaries, NOAA Doreen E. Martinez , Colorado State University Department of Ethnic Studies Deborah McGregor , Osgoode Hall Law School Daniel Wildcat , Haskell Indian Nations University Richard Begay , Navajo Historic Preservation Department | Xiao Huang Simulating Visible Greenness in Urban Settings: Computational Approaches to Assessing and Enhancing Urban Green Spaces Brittany Mason Citizen Science as an Approach for Valuation of Biodiversity in Environmental Impact Statements | Travis Warziniack What is the Value of a Forest? | Yushu Xia Integrating Soil Carbon and Greenhouse Gas Monitoring Into Regionalized Ecosystem Service Evaluation |
| 8:55am | | | | Christian Crowley FICOR (Federal Council on Outdoor Recreation) Coordinating Federal Recreation Efforts | Anthony Aufdenkampe Coupling Soil Hydrology and Carbon Process-Models to Transform the Accuracy of Greenhouse Gas and Water Co-Benefits of Applying Nature Based Solutions to AgroEcosystems |
| 9:15am | This panel will focus on recent federal policy guidance and tools to evaluate ecosystem services and how they can be leveraged to evaluate tradeoffs among services and potential beneficiaries in agricultural and rural communities. We will discuss the Guidance for Assessing Changes in Ecosystem Services, Nature-Based Solutions Roadmap, and related decision-support tools. | This panel will explore Federal agencies' increasing efforts to elevate multiple knowledge systems alongside western scientific approaches to resource management and ecosystem valuation. Panelists have diverse experience and expertise working across knowledge systems in the context of ecosystem management in both the United States and Canada. They will discuss common barriers encountered in their efforts to support elevation of Indigenous Knowledge, identify success stories, and highlight needs and opportunities to improve meaningful consideration of diverse knowledges. | Nataly Miguez Exploring the Synergies Between Biodiversity and Human Use of Urban Greenspaces | Katie Warnell Order out of Chaos: A Dashboard for Forest Accounts | Xuesong Zhang Integrated Watershed Modeling and Accounting of Terrestrial and Aquatic Carbon Budgets |
| 9:35am | | | Jiangxiao Qiu Spatial Patterns and Interactions Among Multiple Cultural Ecosystem Services Across Urban Greenspaces | Kenneth Bagstad Accounting For Hazards and Natural Capital Within the U.S. Natural Capital Accounting System | Matthew Sheffer and Ben Dobson You Can't Do Just One Thing: The Case for a Watershed-Based Payment for Ecosystem Services Framework |
| 9:55am | | | Chang Zhao Mapping Flows of Nature-Based Outdoor Recreational Services at Large-Scale Based on Crowdsourced Data and Multimodal Learning | Matthew Sloggy Investing in Watersheds to Increase the Pace and Scale of Forest Management | Terry Nipp Greater Than the Sum of the Parts – Working Together to Support Data Collection and Multi-Model Ensembles for Carbon and GHG Services at Field, Watershed and Regional Scales |
| 10:15am - 10:45am | AM Break (Exhibit Hall) | | | | |

Wednesday, December 11, 2024 (continued)

Concurrent Sessions - 10:45am - 12:30pm

| | Session 21 | Session 22 | Session 23 | Session 24 | Session 25 |
|----------------|---|--|--|--|--|
| | SABINE | TRINITY A | TRINITY B | SAN ANTONIO | PECOS |
| | Unlocking Capital and Understanding Risk: The Business Case for Investing in Nature | Nature-Based Solutions at DOI | Improving Consideration of Diverse Cultural Benefits in U.S. Federal Decision-Making | Tools and Approaches for Measurement and Valuation; EPA's HAWQs and BenSPLASH Models | One Health: A Joint SETAC/ACES Session on the interface of Ecosystem Toxicology and Services |
| | Lauren Knight International Trade Administration | Liza Khmara U.S. Department of Interior, Office of Policy Analysis | Kristin Hoelting USGS | Hale Thurston US EPA | Jeff Steevens USGS |
| 10:45am | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview |
| 10:50am | <p>PANELISTS:</p> <p>Ken Bagstad, USGS Tania Briceno, Intrinsic Exchange Group Laura Costadone, Institute for Coastal Adaptation and Resilience, Old Dominion University Ethan Aumann, American Property Casualty Insurance Association</p> <p>This panel session focuses on why the private sector should consider investing in nature as a key source of untapped potential and provides a nuanced understanding of risks and opportunities. Panelists will bridge the gap between stakeholders who often operate on two different planes: those developing measurement and valuation practices and those who they hope will benefit (market participants) from these practices. Attendees will leave with a practical understanding of the current state of play and considerations for private sector players interested in investing in nature. This session is especially beneficial for attendees from the private sector and scientists/practitioners.</p> | <p>PANELISTS:</p> <p>Alisa Wade, U.S. Department of the Interior Sara Ward, U.S. Fish and Wildlife Service Courtney Schupp, National Park Service Cameron Adams, The Nature Conservancy</p> <p>This panel will focus on the adoption of nature-based solutions (NBS) by the U.S. Department of the Interior (DOI), discussing DOI's efforts to advance community and ecological resilience.</p> | <p>Lucas Bair Receptivity to Diverse Cultural Benefits-Knowledges in the Glen Canyon Dam Adaptive Management Program</p> | <p>Joel Corona An Overview of the HAWQS and BenSPLASH Tools; Development and Use</p> | <p>Bryan Brooks Towards Precision Ecotoxicology: Embracing One Health to Advance the Science and the Practice</p> |
| 11:10am | | | <p>Erik Stanfield Making Navajo Cultural-Benefits-Knowledge Available to Inform the Glen Canyon Dam Adaptive Management Program</p> | <p>Baishali Bakshi The Water Quality Index: Bringing Water Quality to the Table</p> | <p>Daniel Schlenk One Health Approach for Evaluating Risks of Pharmaceuticals Discharged via a Norwegian Wastewater Treatment Plant in the Marine Environment</p> |
| 11:30am | | | <p>Giselle Samonte Integrating Place-Based Understandings of Well-Being in NOAA National Marine Sanctuary Condition Reports</p> | <p>Matthew Heberling Estimating Avoided Drinking Water Treatment Costs from Improved Source Water Quality</p> | <p>Jeffery Steevens Linking Restoration Efforts to Ecosystem Services: The Case of Freshwater Mussels in Clinton River, Michigan</p> |
| 11:50am | | | <p>Katie Wrubel Expanding Ecosystem Service Considerations in Olympic Coast National Marine Sanctuary</p> | <p>Chris Moore A National Study Valuing Ecological and Recreational Improvements in Water Quality</p> | <p>Li Li Model-Based Tandem Assessment of Human and Ecological Exposures to Environmental Chemicals</p> |
| 12:10pm | | | <p>Sarah Wise Considering Culture in Federal Bering Sea Fisheries Management</p> | <p>Kristen Swedberg Disentangling Sources of Water Quality Variation in Property Sale Models</p> | <p>Charles Menzie Cumulative Impact Assessment and Actions in the Context of Environmental Justice</p> |
| 12:30pm-1:30pm | Lunch Buffet Provided in Exhibit Hall | | | | |

Wednesday, December 11, 2024 (continued)

Concurrent Sessions - 1:30pm - 3:15pm

| | Session 26 | Session 27 | Session 28 | Session 29 | Session 30 |
|-----------------|--|---|--|--|---|
| | SABINE | TRINITY A | TRINITY B | SAN ANTONIO | PECOS |
| | Just and Resilient Landscapes: Green Infrastructure, Community, and Climate in Austin, TX | Longleaf for All: Working with Historically Underserved Landowners to Strengthen a Legacy of Resilience | Science and Art of Rangeland Ecosystem Management for Resilient Ecosystem Services | Restoration in the Great Lakes: Healing Ecosystems and Communities | Insights From the New Routledge Handbook on Cultural Ecosystem Services (CES) |
| | Pamela Abee-Taulli City of Austin, Texas | Tiffany Woods National Wildlife Federation | Wendy Flatt USDA-NIFA | Joel C. Hoffman US EPA | Deborah McGrath University of the South |
| 1:30pm | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview |
| 1:35pm | <p>PANELISTS:</p> <p>Katherine Lieberknecht, University of Texas at Austin, Community & Regional Planning</p> <p>Marc Coudert, City of Austin, TX</p> <p>Frances Acuña, Go Austin / Vamos Austin</p> <p>Jana McCann, McCann Adams Studio</p> <p>This panel will focus on policy frameworks and planning approaches supporting integration of green infrastructure into urban development strategies, emphasizing the role of inclusive community engagement to ensure equitable access to benefits across diverse populations</p> | <p>PANELISTS:</p> <p>Shelby Diehl, National Wildlife Federation</p> <p>Jamelle Ellis, Theodore Roosevelt Conservation Partnership</p> <p>Herbert Hodges, Willie E. Hodges Family Farm</p> <p>Brian Branciforte, USDA Forest Service</p> <p>This panel focuses on the collective work being done with historically underserved landowners and communities to address challenges, such as access to resources, legal counsel, financial markets, and outreach, and optimize opportunities for owning forested land through longleaf pine restoration. Our goal is to demonstrate the potential to engage in existing and emerging markets for forest ecosystems by highlighting the ecological, economic, and cultural advantages and resiliency of longleaf pine.</p> | <p>Jennifer Funk</p> <p>Applying Trait-Based Approaches to Restore Drought-Resilient and Invasion-Resistant Rangeland</p> | <p>Kathleen Torso</p> <p>Exploring Cumulative Environmental Factors on Health Outcomes with Tribal Nations in the Great Lakes Region</p> | <p>Beth Allgood</p> <p>Understanding and Supporting Cultural Ecosystem Services for Positive and Enduring Wildlife Conservation and Community Outcomes</p> |
| 1:55pm | | | <p>Torre Hovick</p> <p>Restoring Dynamic Disturbance Processes to Promote Ecological Services</p> | <p>Kaitlyn Hines</p> <p>Ecosystem Services Identified in Great Lakes Area of Concern Planning Documents</p> | <p>Tatiana Marquina</p> <p>Methods to Measure Relative Importance of Cultural Ecosystem Services</p> |
| 2:15pm | | | <p>Nancy Shackelford</p> <p>The Impacts of Heterogeneity on the Provision of Rangeland Ecosystem Services in Agricultural Restoration</p> | <p>Molly Wick</p> <p>Waterfront Reconnection: Linking Ecosystem Restoration to Community Revitalization</p> | <p>Kristin Hoelting</p> <p>Constraints and Enablers for Meaningful Consideration of Plural CES Values in Decision-Making</p> |
| 2:35pm | | | <p>Christine Nieman</p> <p>Developing Resilient Grazing Systems for the Fescue Belt with Native Warm-Season</p> | <p>Megan Dwyer Baumann</p> <p>Bringing Community Capacity into Conversation with Ecosystem Services and Equity in Great Lakes Coastal Communities</p> | <p>Deborah McGrath</p> <p>Cultural Ecosystem Services Enhance Investments in Other Ecosystem Services: Carbon Credits in Haiti</p> |
| 2:55pm | | | <p>Perry Williams</p> <p>Sustaining Rural Livelihoods, Livestock Grazing, and Sage-Grouse Habitat in Western Sagebrush Systems</p> | <p>Joel Hoffman</p> <p>Benefits to Human Health from Improving Great Lakes Ecosystem Services</p> | <p>Discussion of CES Book Themes with Co-presenters and Attendees</p> |
| 3:15pm - 3:45pm | PM Break (Exhibit Hall) | | | | |

Wednesday, December 11, 2024 (continued)

Concurrent Sessions - 3:45pm - 5:30pm

| | Session 31 | Session 32 | Session 33 | Session 34 | Session 35 |
|-----------------|---|---|--|---|---|
| | SABINE | TRINITY A | TRINITY B | SAN ANTONIO | PECOS |
| | Imagining How a National Nature Statistical Bureau Could Help Quantify Ecosystem Services | Great Lakes Coastal Resiliency | Science of Cropland Ecosystem Management | Knowledge Production and Inclusive Decision-Making Through Community Engagement, Lessons Learned | Early Career Researchers in Ecosystem Services and Related Sciences |
| | Lydia Olander Duke University | Nicole Zacharda Great Lakes Commission | Kaushlendra Tingi USDA-NIFA | Doreen E. Martinez Colorado State University | Erika Kraus USDA-NIFA |
| 3:45pm | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview |
| 3:50pm | PANELISTS: Chris Hartley , US Department of Agriculture Ken Bagstad , US Geological Survey Jacob Malcom , US Department of the Interior Regan Smyth , NatureServe | PANELISTS: Jim Luke , US Army Corps of Engineers Stevie Adams , The Nature Conservancy Bridget Brown , Great Lakes-St. Lawrence Cities Initiative Chiara Zuccarino-Crowe , NOAA Kat Cameron , Michigan Sea Grant | Ian Kaplan Enhancing Arthropod-Mediated Ecosystem Services by Alleviating Key Stressors in Specialty Crop Production | Kenneth Kokroko Supporting Inclusive Community Engagement and Equitable Development in Underserved Communities: Lessons from Detroit's Joe Louis Greenway | Emma Rice Uncovering Cover Crop Mixture Root Abundance and Composition to Maximize Ecosystem Service Provisioning |
| 4:10pm | Three major federal activities, the Conservation and Stewardship Atlas, Natural Capital Accounting, and National Nature Assessment highlighted the need for coordinated national nature data. This session will discuss options for more efficient, credible, interoperable, and automated nature data systems that clearly document the strengths and weaknesses of data while balancing data privacy and accessibility needs. The discussion will be of interest to those with a stake in improved data credibility and accessibility to facilitate quantification of and investment in ecosystem services. | Through significant U.S. federal investment in the Great Lakes Restoration Initiative and state initiatives, federal and state agencies and Indigenous Nations are partnering with local governments and conservation organizations to build a resilient Great Lakes basin capable of withstanding the highs and lows predicted by our region's climate models. | Srinivasulu Ale Enhancing Soil Health and Ecosystem Services Through Pasture Cropping | Alexander Martin Wildfire Risk Reduction in the Wildland-Urban Interface: Conflicts, Politics, and Urban Ecology | Molly Levy Examining the Influence of Diverse Stakeholder Collaboration on Land Management & Agricultural Sustainability in the Thunder Basin Ecoregion |
| 4:30pm | | | Wenjuan Huang A Trade-Off Between Soil Carbon Storage and Nitrogen Supply in a Diversified Cropping System | Jeffrey Thomas Acknowledging Native Land Ethics & Uses in South-Central Puget Sound | Sarah Richards Directed Evolution of a Beneficial Microbial Inoculant to Improve Survival in Soil |
| 4:50pm | | | Humberto Blanco Planting Green to Improve Ecosystem Services in Row Crop Production Systems | Simone Maynard Ecosystem-Based Adaptation to Climate Change of Indigenous Women in Indonesia (Sumatra) and Australia (Queensland) | Haley Netherton-Morrison Regional Place Meanings as Precursors to Attitudes Toward Socioeconomic Change |
| 5:10pm | | | Stacy Philpott Ecological Networks, Management Shifts, and Ecosystem Services in Urban Agroecosystems | Chloe Jackson Reviewing the Recruitment and Qualitative Methods in Deliberative Valuation Experiments | Samantha Maher Costs and Benefits of Living with Migratory Wildlife in the American West. |
| 5:30pm - 7:00pm | Poster Session and Networking (Exhibit Hall) Poster presentations play a key role in the exchange of information. Considerable time is dedicated to viewing them, giving scientists, policy makers, planners, practitioners and managers valuable opportunities to interact and share details of their work, successes and lessons learned. Don't miss this opportunity to network with colleagues and learn more about national and global ecosystem services. | | | | |

Thursday, December 12, 2024

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|---|---|--|--|--|--|
| 7:30am-5:30pm | Conference Registration Open Space is Available for Impromptu Meetings | | | | |
| 7:30am-8:30am | Morning Refreshments (<i>Exhibit Hall</i>) | | | | |
| Concurrent Sessions - 8:30am - 10:15am | | | | | |
| | Session 36 | Session 37 | Session 38 | Session 39 | Session 40 |
| | SABINE | TRINITY A | TRINITY B | SAN ANTONIO | PECOS |
| | Metrics and Data Needs for Nature-Based Solutions Monitoring, Evaluation, and Design Guidance | Nature Based Solutions | Translation of Ecosystem Service Science to Action | The Power of Connection: Integrated Set of Tools For Ecosystem Analysis | Equity in Ecosystem Services |
| | Lydia Olander Duke University | Erika Kraus USDA-NIFA | Adam Wilke USDA-NIFA | Leah Sharpe US EPA | Kristin Hoelting USGS |
| 8:30am | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview | Introduction & Overview |
| 8:35am | <p>PANELISTS:</p> <p>Emily Corwin, Solano Stormwater Alliance Manager Ellen Bolen, National Fish and Wildlife Foundation Vamsi Krishna Sridharan, Tetra Tech Todd Jones-Farrand, US Fish and Wildlife Service</p> | <p>Ulsia Urrea Mariño Building Urban Resilience to Climate Change with Nature-, Community- and Infrastructure-Based Solutions: A Mixed Methods Study in the Gulf of Mexico. Ciudad del Carmen, Mexico as Case Study</p> | <p>Kari Veblen Protecting Rangelands in a Changing Climate: Using a Heritage Cattle Breed to Maintain Ecosystem Function under Livestock Production</p> | <p>Susan Yee The Final Ecosystem Goods and Services (FEGS) Document Reader: A Tool to Extract, Identify, and Prioritize Ecosystem Services and Their Beneficiaries from Documents</p> | <p>Libby Kula How Equitably Are Ecosystem Services Distributed in U.S. Metropolitan Areas?</p> |
| 8:55am | This session will bring together NBS practitioners, planners, and researchers to explore various needs for evaluating NBS, so we can learn and build better over time. Our goal is to instigate a discussion on what a national strategy to collect data on the effectiveness of NBS would look like. | <p>Katie Warnell Evaluation of Publicly Accessible Nature-Based Solutions Databases as Sources for Evidence of Effectiveness</p> | <p>Jacob Lucero A Biogeographic Contrast of Invasive <i>Bromus tectorum</i> Abundance and Management in its Native vs. Non-native Ranges</p> | <p>Kristen Rappazzo The Eco-Health Relationship Browser through the National Ecosystem Services Classification System Plus Framework.</p> | <p>Season Martin The Colorado River Basin Post-2026 Operations Exploration Tool: Using Decision Making under Deep Uncertainty Methods in a Web-Based Decision Support Tool to Connect Policymakers and Stakeholders</p> |
| 9:15am | | <p>Laura Costadone Ecological and Socio-Economic Valuation of the Ecosystem Services Provided by a Multifunctional Green Infrastructure for Flood Mitigation</p> | <p>Jodi Brandt Developing a Systematic Approach to Protecting Farmland and Ecosystem Services in the Western United States</p> | <p>Leah Sharpe The Ecosystem Service Gradient: An Integrated Approach for Describing Shifts in Ecosystem Service Production</p> | <p>Chloe Wardropper Midwestern USA Farmers' Perceptions of Distributive Justice in Voluntary Soil Carbon Markets</p> |
| 9:35am | | <p>Erin Mackey The Economic Benefits of Natural Climate Solutions in Minnesota</p> | <p>Ashley Larsen Integrating Multidisciplinary Approaches to Understand Ecosystem Services in Changing Agricultural Landscapes</p> | <p>Tammy Newcomer-Johnson Using Ecosystem Service Tools in Environmental Justice Community Development Projects</p> | <p>Mary Allen Valuing the Monetary and Non-Monetary Ecosystem Services of U.S. Coral Reefs</p> |
| 9:55am | | <p>Olivia Molden Ecological Economics for Community-Driven Solutions: Lessons for Integrating Equity in Ecosystem Services Valuation Through Pro Bono Partnerships</p> | <p>Nouman Afzal Using Values-Informed Mental Models to Understand Farmer, Policy Actor, and Scientist Use and Perceptions of Hydrologic Models</p> | <p>Richard Fulford Integrated Response to Flood Resilience Planning Based on Ecosystem Services and an Eco-Decisional Network.</p> | <p>Gillian Davies Pathways to Preserving Wetland Carbon III: First in Nation Policy Goal Confers Community Resilience, Equity, & Climate Mitigation!</p> |
| 10:15am-10:30am | AM Break - <i>Exhibit Hall</i> [NOTE: This is a 15-minute break.] | | | | |

Thursday, December 12, 2024 (continued)

Closing Plenary Session

(Grand Ballroom A)

Moderator: **Ms. Shonté Jenkins**

U.S. Geological Survey

Plenary Session Schedule:

10:30am Welcome from Organizers

10:40am Introduction and Overview by Moderator

10:45am Speaker Presentations

11:45am Closing Comments

SPEAKERS:

Dr. Lydia Olander, Program Director

Nicholas School of the Environment, Duke University, Durham, NC

Dr. Deborah McGregor, Associate Professor & Canada Excellence Research Chair

Indigenous Knowledge and Planetary Well Being, Faculty of Science

University of Calgary, Calgary, Alberta

10:30am-12noon

11:30am -
12:30pm

Sponsors and Poster Presenters Dismantle Displays

OPTIONAL POST CONFERENCE FIELD TRIP

"Lady Bird Johnson Wildflower Center"

1:00pm-4:30pm | \$50.00 to participate

This year's ACES features an optional post-conference field trip you won't want to miss!

The Wildflower Center is a top destination, boasting Texas' largest collection of native plants in one spot for your viewing pleasure. The Center's mission is to inspire the conservation of native plants through its internationally recognized sustainable gardens, education and outreach programs, and research projects. Enjoy stunning gardens and unique architecture with an expert guide to show you the way. We will also take a guided tour of a prescribed burn site and discuss the role of fire ecology in managing unwanted vegetation on large landscapes, and its impact on increasing plant diversity and wildlife habitat and providing beneficial ecosystem services.

1:00pm - Board bus to Lady Bird Johnson Wildflower Center (advance registration required)

4:30pm - Arrive back at Renaissance Hotel

<https://conference.ifas.ufl.edu/aces/optional-field-trip.php>

12:30pm - 4:30pm

Conference Concludes