



ACES 2016 - Detailed Program Agenda
A Community on Ecosystem Services
Linking Science, Practice and Decision Making

Sunday, December 4, 2016

5:00pm-7:00pm	Pre-Conference Registration Opens Early Exhibitor Move-In and Poster Set-Up
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Monday, December 5, 2016

7:30am-6:00pm	Conference Registration Open - Second Floor Sky Bridge Pre-Conference Field Trip Ad Hoc Space Available - City Terrace Rooms 5, 6, and 8
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7:30am-8:30am	Morning Refreshments and Exhibit/Poster Set-Up - Grand Ballroom 5 and Foyer
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Morning Pre-Conference Workshops

8:30am-12:00pm	Workshop 1 (All Day)	Workshop 2	Workshop 3	Workshop 4
Location	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Grand Ballroom 6
Organizer	Lydia Olander, Duke University	Morgan Erhardt, EcoMetrix Solutions Group	William Kepner, U.S. Environmental Protection Agency Ken Boykin, New Mexico State University	Jeffrey Thomas, Puyallup Tribe of Indians
8:30am-10:00am	Methods for Incorporating Ecosystem Services into Decision-Making: From Benefit Relevant Indicators to Monetary Values	Hands-On Ecosystem Services: Interactive Training of the ESII (Ecosystem Services Identification & Inventory) Tool	National Biodiversity Metrics & Mapping Workshop	Linking Social-Ecological Systems & Community Empowerment to Ecosystem Services Concepts

10:00am-10:30am	AM Break - Grand Foyer			
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10:30am-12:00pm	Morning Workshop Continued	Morning Workshop Continued	Morning Workshop Continued	Morning Workshop Continued
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12:00pm-1:30pm	Lunch Break - On Own			
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Afternoon Pre-Conference Workshops

1:30pm-5:00pm	Workshop 1 (Continued)	Workshop 5
Location	Grand Ballroom 1	Grand Ballroom 2
Organizer	Lydia Olander, Duke University	Morgan Erhardt, EcoMetrix Solutions Group
1:30pm-3:00pm	Continued : Methods for Incorporating Ecosystem Services into Decision-Making: From Benefit Relevant Indicators to Monetary Values	The ESII Tool in Practice: Using the Results of the ESII Tool for Multiple Applications

3:00pm-3:30pm	PM Break -Grand Foyer			
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3:30pm-5:00pm	Afternoon Workshop Continued	Afternoon Workshop Continued
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Workshops Conclude

5:30pm-6:30pm	Welcome Networking Social - River Terrace			
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Tuesday, December 6, 2016		
7:30am-5:30pm	Conference Registration Open - Second Floor Sky Bridge Ad Hoc Space Available - City Terrace Rooms 5, 6, and 8	
7:30am-8:30am	Morning Refreshments and Poster Set-Up - Grand Ballroom 5 and Foyer	
8:30am-9:45am	Opening Plenary Session - Grand Ballroom 4	
	<p>ACES 2016 Welcome and Announcements</p> <p>Dianna Hogan, Eastern Geographic Science Center, U.S. Geological Survey, ACES 2016 Planning Committee Chair</p> <p style="text-align: center;"><u>Opening Plenary Session</u></p> <p style="text-align: center;">Ecosystem Services: Accomplishments and Future Direction</p> <p>Moderator: Ann Bartuska, Deputy Under Secretary for Research, Education and Economics, U.S. Department of Agriculture</p> <p style="text-align: center;"><u>Panel Members</u></p> <p>Suzette Kimball, Director, U.S. Geological Survey</p> <p>Lynn Scarlett, Global Managing Director, Public Policy, The Nature Conservancy</p> <p>Tim Male, Associate Director for Conservation and Water, Executive Office of the President, Council on Environmental Quality</p> <p>Margaret Walls, Senior Fellow and Interim Vice President for Research, Resources for the Future</p> <p style="text-align: center;"><u>Plenary Description</u></p> <p>This opening plenary session provides a forum for leaders in the ACES community to discuss the accomplishments and challenges since ACES 2014 in the implementation of ecosystem services. Panelists will discuss how the science and the ability to value ecosystem services has changed, how institutional structures have evolved, and where we have made progress in advancing science and practice. The panelists will also consider how the new administration may approach implementation of ecosystem services and how we may best connect.</p>	
9:45am-10:15am	AM Break - Grand Foyer	
10:15am-11:30am	Plenary Session 2 - Grand Ballroom 4	
	<p>Implementation Advances and Challenges</p> <p>Moderator: Olivia Ferriter, Deputy Assistant Secretary for Budget, Finance, Performance and Acquisition, Department of the Interior</p> <p style="text-align: center;"><u>Panel Members</u></p> <p>Robert Costanza, Vice-Chancellor's Chair in Public Policy, Crawford School of Public Policy, the Australian National University</p> <p>Ione Taylor, Executive Director of Earth and Energy Resources Leadership, Department of Geological Sciences and Geological Engineering, Queen's University</p> <p>Ricardo Bayon, Founder and Partner, Encourage Capital</p> <p>Stephen Polasky, Regents Professor and Fesler-Lampert Professor of Ecological/Environmental Economics, University of Minnesota</p> <p style="text-align: center;"><u>Plenary Description</u></p> <p>This plenary session will provide a discussion on implementation advances and challenges from a diversity of perspectives. The speakers will provide thoughts on their experience and recommendations, and will include aspects of finance and how to consider and balance potentially competing objectives.</p>	
11:30am-1:00pm	Lunch Provided	
11:45am-12:50pm	Tuesday Lunch Town Hall Meetings	
	Ecosystem Finance 101: Natural Capital Meets Financial Capital	Science and Decisions
	Collaborative Processes to Advance Markets-based Solutions to Clean Water Goals	Grand Ballroom 1
	Grand Ballroom 2	Grand Ballroom 3
	Organized By: Leigh Whelpton , The Conservation Finance Network and Eric Hallstein , The Nature Conservancy	Organized By: Carl Shapiro , U.S. Geological Survey
	Organized By: Neil Crescenti , Willamette Partnership	Introduction & Overview (5 min)
	Introduction & Overview (5 min)	Introduction & Overview (5 min)
	Town Hall Discussion (1 hour)	Town Hall Discussion (1 hour)

Tuesday, December 6, 2016

Concurrent Sessions - 1								
1:00pm-2:45pm	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8
Location	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Grand Ballroom 6	Grand Ballroom 7	Grand Ballroom 8	River Terrace 2	River Terrace 3
	Successful Financing of Large-Scale Watershed Protection and Restoration	Human Well-Being	Building Consistency into Ecosystem Services Assessments and Decision Making	Ecosystem Services in Planning, Management, and Decision Making I	Ecosystem Services and Resilient Communities: The Smart Money's on Floodplains	Measuring, Modeling and Mapping Ecosystem Services	Multi-Resource Analysis: Valuing Natural Resources and Ecosystem Services Under Scenarios of Change	Carbon and Greenhouse Gas
Moderator	Peter Stangel	Laura Jackson	George Van Houtven	Rob Winthrop	Sara O'Brien	Rachel Sleeter	Karen Jenni	Brad Reed
1:00pm-1:05pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:05pm-1:25pm	<p>PANELISTS: Michael Curley Patti Cale-Finnegan Laura Walker</p> <p>This session presents a variety of examples of successful, multi-million dollar funding for watershed protection focusing on state revolving funds and water utilities. A key goal of this session is to provide practical guidance on how to employ these strategies in your own environment.</p>	<p>Susan Yee Predicting Effects of Climate and Landuse Change on Human Well-Being Via Changes in Ecosystem Services</p>	<p>Lydia Olander Consistency in Ecosystem Services Measures for Decision Making</p>	<p>Clay Henderson Integrating Protection of Ecosystem Services into the Comprehensive Planning Process: The Florida Experience</p>	<p>Zachary Christin Life After the Memo: A Look at How Federal Agencies Incorporate Ecosystem Services into Floodplain Management Policy</p>	<p>Charles Rhodes Classifying Ecosystem Services for Ecosystem Accounting and Research Purposes - State of the Art and Key Challenges</p>	<p>Katherine Walton-Day A Prototype Environmental Health Assessment of Developing Undiscovered Sandstone-hosted Uranium Resources in the Texas Coastal Plain</p>	<p>Open Slot - Session will begin at 1:25pm</p>
1:25pm-1:45pm		<p>Marc Russell An Operational Structured Decision-Making Framework for Assessing Changes in Final Ecosystem Goods and Services with Consequences for Human Well-Being</p>	<p>Heather Tallis Getting Specific: Consistent Identification of Ecosystem Service and Human Well Being Outcomes from Environmental Management Decisions</p>	<p>Darius Semmens Implementation Challenges for Ecosystem Services in the Public Sector: Lessons Learned from a BLM Case Study</p>	<p>Jonathon Loos Linking Natural Floodplain Functions, Floodplain Management, and ecosystem Services to Advance Floodplain Restoration and Policy Objectives</p>	<p>Deborah January-Bevers Looking Beyond Ecological Functions to the Value of Ecosystem Services</p>	<p>Mark Mihalasky Multiresource Integrated Assessment (MRIA): Challenges and Possible Refinements to a Proof-of-Concept Application, Anosy Region, Madagascar</p>	<p>Lauri Green Can a Model Transferability Framework Improve Ecosystem Service Estimates? A Case Study of Soil Forest Carbon Sequestration in Tillamook Bay, OR, USA</p>
1:45pm-2:05pm	<p>The need for financing for large-scale watershed protection is acute, as climate change, development, and other threats adversely affect watershed health. New approaches for financing are developing that can be used in many places and situations. A key challenge to scaling these approaches is sharing success stories and helping interested groups better understand how these options may be applied to their situation.</p>	<p>Discussion/Q&A</p>	<p>George Van Houtven Building Consistency through Hierarchical Classification Systems for Ecosystem Services.</p>	<p>Kari Cohen Incorporating Ecosystem Services into Private Lands Conservation</p>	<p>Sara O'Brien Oregon Dips its Toe in the Water: Market-based Approaches to Floodplain Management</p>	<p>Marcello Hernández-Blanco The Future of Ecosystem Services in Latin America and the Caribbean</p>	<p>Karen Jenni USGS Multi-Resource Analysis: Powder River Basin Proof-of-Concept</p>	<p>Jan Lewandrowski Managing Agricultural Land for Greenhouse Gas Mitigation Within the United States</p>
2:05pm-2:25pm		<p>Katherine von Stackelberg Quantitative Tools for Linking Adverse Outcome Pathways with Process Models: Bayesian Relative Risk Networks</p>	<p>Tamara Blett Using Classification and Causal Chains to Consider Air Quality Impacts to Federal Lands</p>	<p>Susan Preston Mainstreaming Ecosystem Services in Policy and Decision Making: Practical Guidance</p>	<p>Marjorie Wolfe Accounting for Floodplain Functions</p>	<p>Gustavo Perez-Verdin What Lessons Have Left the Economic Valuation Studies of Ecosystem Services in Mexico?</p>	<p>Monica Dorning Probabilistic Integrated Resource Assessment Tool with Ecosystem Services (PIRATES)</p>	<p>Patricia Townsend Using Ecosystem Services to Build a Hardwood Biofuels Program</p>
2:25pm-2:45pm		<p>Discussion/Q&A</p>	<p>Lisa Wainger Limitations of Classification Systems and Rationale for Flexible Design</p>	<p>Bedilu Amare Reta Integrated Assessment of Ecosystem Services for Sustainable Management of Natural Resource, A Case of Lake Hawassa Basin, Ethiopia</p>	<p>Discussion/Q&A</p>	<p>Solen Le Clec'h Spatial and Temporal Modelling of Ecosystem Services</p>	<p>Craig Broadbent The Net Resources Assessment: Assessing the Tradeoff Between Economic Development and Conservation of Ecosystem Services</p>	<p>Johanes Belle Managing Wetlands for Climate Change Adaptation and Disaster Risk Reduction: A Case Study of the Eastern Free State; South Africa</p>
2:45pm-3:15pm	PM Break - Grand Foyer							

Tuesday, December 6, 2016

Concurrent Sessions - 2								
	Session 9	Session 10	Session 11	Session 12	Session 13	Session 14	Session 15	Session 16
Location	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Grand Ballroom 6	Grand Ballroom 7	Grand Ballroom 8	River Terrace 2	River Terrace 3
3:15pm-5:00pm	Financing Watershed Protection: New Horizons	Avoiding Random Acts of Restoration: Ecosystem Services as a Framework for the Gulf of Mexico	Evidence-based Approaches for Linking Ecosystem Services and Human Health	Ecosystem Services in Planning, Management, and Decision Making II	Managing for Multiple Ecosystem Services in Agricultural Landscapes	Quantifying and Valuing Ecosystem Services	Building Resilience and Measuring Success in the Wake of Hurricane Sandy	Counting the Carbon: The Importance of Quantifying Greenhouse Gas Flows on Farms and Ranches
Moderator	Jeff Lerner	Erica Goldman	Rebeca de Jesus Crespo	Rob Winthrop	Rodd Kelsey	Dixon Landers	Olivia Barton Ferriter	Kari Cohen
3:15pm-3:20pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:20pm-3:40pm	PANELISTS: Naomi Young Spencer Meyer Nina Chen Mark McPherson	David Yoskowitz An Opportunity to Measure the Impact of Investment of Gulf of Mexico Restoration Activities	Bobby Cochran The Oregon Health and Outdoors Action Framework	Mary Jo Kealy An Ecosystem Services Approach Toward Assessing Benefits of Flood Planning in the Central Valley of California	Mark Reynolds Managing for Water Supplies and Waterbirds in Irrigated Farmlands of California	Krissy Hopkins Quantifying and Valuing Floodplain Nutrient and Sediment Retention	Olivia Barton Ferriter Department of the Interior's Approach to Achieving Coastal Resilience in the Wake of Hurricane Sandy	Marci Baranski USDA's Climate Change Plan and Benchmarking Progress
3:40pm-4:00pm	This session focuses on exciting, new approaches for financing watershed protection and restoration. While these approaches may still be developing, they offer innovative approaches that can help diversify and grow financing opportunities for watershed protection.	Decision-Maker Panel: Buck Sutter	Mark Myer Human and Environmental Influences on Ecosystem Services and West Nile Virus Vector Infection in Suffolk County, New York (USA)	Heidi Huber-Stearns The Evolving Role of Government in the Adaptive Governance of Freshwater Social-Ecological Systems in the Western US	Stephen Wood Building Soil Carbon for Environmental and Human Wellbeing	Spencer Phillips Prioritizing Bottomland Hardwood Forest Conservation	Michael Tupper Department of the Interior's Approach to Science and Ecosystem Services Following Hurricane Sandy	Kari Cohen Working Lands Carbon Sequestration and GHG Reductions: The Importance of Quantifying Greenhouse Gas Flows on Farms and Ranches
4:00pm-4:20pm		Heather Tallis Incorporating Ecosystem Services into Causal Chains to Inform Restoration Decisions	Val Garcia Impact of Increased Corn Production on Ground Water Quality and Human Health	Discussion/Q&A	Aaron Iverson Managing Coffee Agroforests for Biodiversity and Ecosystem Services	Lena Dempewolf An Assessment of Crop Yield Dependence on Insect Pollination Services in the Neotropics	Wendi Weber Developing and Using Ecological Resilience Metrics to Measure Project Performance After Hurricane Sandy	Discussion/Q&A
4:20pm-4:40pm		James Boyd Mississippi River Diversions: Community Impacts and Ecological Restoration	Laura Jackson Fine-Scale Environmental Indicators of Well-Being for Urban Communities	Laurence Jones Evidence for How Natural Capital Underpins the Delivery of Ecosystem Services	Cheryl Palm Recovering Ecosystem Services Through Agricultural Intensification in Degraded Landscapes	Craig Broadbent Valuing Changes to Ecosystem Services from Gas and Mineral Development	Susan Taylor Developing and Using Socio-Economic Metrics to Measure Project Benefits and Ecosystem Services after Hurricane Sandy	Teresa Lang GHG Emission Reduction Quantification on Farms and Ranches the Offset Registry Perspective
4:40pm-5:00pm		Discussion/Q&A	Richard Fulford Applying Eco-Health Science in Environmental Governance	Maria Jeaneth Delgado-Aguilar Community Mapping of Ecosystem Services In Tropical Rain Forest of Ecuador	Rodd Kelsey The Promise and Challenges of Diversified Farm Management Practices for Delivering Multiple Ecosystem Services: A Review of the Evidence	Vera Agostini Pelagic Ecosystem Service Assessments can Reveal an Underappreciated Source of Ocean Wealth	Amanda Bassow Evaluating Ecological and Community Resilience Benefits Resulting from Department of the Interior Hurricane Sandy Projects	Michael Lohuis Establishing a Carbon-neutral Goal for Monsanto Company by 2021
Tuesday Evening Town Hall Meetings								
5:15pm-6:45pm	Ecosystem Markets and Finance: Where's the Money?				Nexus of Indigenous Knowledge and Ecosystem Services			
Location	Grand Ballroom 1				Grand Ballroom 2			
Organizer	Patrick Coady, Seale & Associates, Inc., Jessica Fox, EPRI and Kaola Swanson, The Freshwater Trust				Jon Waterhouse, Oregon Health and Science University			
5:15pm-5:20pm	Introduction & Overview				Introduction & Overview			
5:20pm-6:45pm	Town Hall Discussion				Town Hall Discussion			

Wednesday, December 7, 2016

7:30am-5:30pm	Conference Registration Open - Second Floor Sky Bridge Ad Hoc Space Available - City Terrace Rooms 5, 6, and 8
7:30am-8:30am	Morning Refreshments - Grand Ballroom 5 and Foyer
8:30am-9:30am	<p style="text-align: center;">Plenary Session 3 - Grand Ballroom 4</p> <p style="text-align: center;"><u>Plenary Session</u></p> <p style="text-align: center;">Human Health and Ecosystem Services: People and the Environment Are Not Separate Moderator: Bobby Cochran, Executive Director, Willamette Partnership</p> <p style="text-align: center;"><u>Panel Members</u></p> <p style="text-align: center;">Geoff Plumlee, Associate Director, Environmental Health, U.S. Geological Survey Paul Sandifer, Research Associate (Professor), College of Charleston, South Carolina Jon Waterhouse, Indigenous Peoples Scholar, Oregon Health and Science University</p> <p style="text-align: center;"><u>Plenary Description</u></p> <p style="text-align: center;">This plenary session focuses on themes to directly connect human well-being and the environment. The speakers will reinsert the role of people into ecosystem service assessments from the perspectives of indigenous peoples, human health, and the ecological links.</p>
9:30am-10:00am	AM Break - Grand Foyer

Wednesday, December 7, 2016

Concurrent Sessions - 3

10:00am-11:45am	Session 17	Session 18	Session 19	Session 20	Session 21	Session 22	Session 23	Session 24
Location	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Grand Ballroom 6	Grand Ballroom 7	Grand Ballroom 8	River Terrace 2	River Terrace 3
	Financing Green/ Grey Coastal Infrastructure	Incorporating Ecosystem Services Values and Benefits into Land-Use Management and Investment Decisions: Applications from Across the Landscape	Integrated Market-like Strategies to Meet the Iowa Nutrient Reduction Strategy: A Solution to Gulf Hypoxia?	Water Ecosystem Services	Designing Ecosystem Services Metrics and Supporting Technology Solutions for Scalable Implementation	Agricultural Ecosystem Services	Adaptive Management of Ecosystem Services	Ecosystem Services, Environmental Management, and Decision Making
Moderator	Erik Meyers	Tracy Stanton	Mark Kieser	Mike Tupper	Sara O'Brien	Craig Landry	Ahjong Garmestani	Wayne Munns Anne Rea
10:00am-10:05am	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:05am-10:25am	PANELISTS: Shannon Cunniff Deborah Larson-Salvatore Gregory Biddinger Murray Starkel	PANELISTS: Tracy Stanton Zachary Christin Kathleen Wolf Given the massive influx to urban areas and the regions that support their sustainability, where are the concrete examples of ecosystem service values and benefits informing and influencing planning processes, resource management and investment decisions across a spectrum of scales?	Dustin Miller State Revolving Loan Funds: Innovative Financing Under the Iowa Nutrient Reduction Strategy	Ashley Camhi How Does Spatial Patterning of the USDA's Conservation Reserve Program Impact Water Quality in Iowa's Lakes?	Erik Anderson Designing Environmental Metrics to Scale: Lessons from the Monarch Butterfly	Sasathorn Tapaneeyakul Spatial Valuation of Ecosystem Services in Agricultural Lands	Craig Allen Adaptive Management for Ecosystem Services	Anne Rea Use of Ecosystem Services in EPA Decision Making for Criteria Air Pollutants
10:25am-10:45am	This panel will examine the recent SAGE (Systems Approach to Geomorphic Engineering) Initiative to integrate green (natural and nature-based) approaches with traditional grey (engineered structures) infrastructure for coastal protection and the tandem effort to utilize more private funding, from philanthropic and impact investors to market-based needs, in green/grey coastal defense projects, providing greater resiliency to climate change and sea level rise impacts. Speaker experiences span private markets, large corporation, government and NGO/ philanthropic institutions.	This discussion will highlight innovative work across multiple scales including: Landscape restoration and conservation along the urban to rural gradient; the connection between trees and human health at a local scale; and how a new multi-criteria Open Space Assessment Tool, based on ecosystem service benefits, can inform better land-use planning decisions at a regional scale.	Brooks Smith Pressing Legal Questions for Multiple Credits and Funding Streams Under the Iowa Nutrient Reduction Strategy	David Hanson Monitoring Indicators for Evaluating Restoration Program Success for the Gulf of Mexico	Amy Merrill The Central Valley Habitat Exchange: Quantifying Benefits for Multiple Species at Parcel and Landscape Scales	Deborah McGrath A New Approach for Using Payments for Ecosystem Services (PES) To Encourage Adoption of More Resilient Agroecosystems: A Case From Central Haiti	Robin Craig Fixing the Law to Allow for Agency Adaptive Management for Ecosystem Services	Wayne Munns Ecosystem Services in Risk Assessment and Management
10:45am-11:05am			Mark Kieser A Nutrient Reduction Exchange to Unify Interests and Efforts Under the INRS	Todd Gartner Protecting Drinking Water: Lessons from Watershed Investment Programs in the United States	Sara O'Brien Using Ecosystem Services Quantification to Drive Better Management Decisions: Can Simple Succession Models Help?	Angela Fletcher and Ryan Smith Catalyzing Impact Investment in Sustainable Agricultural Lands and Practices	Lance Gunderson Adaptive Governance of Wetland and Riverine Ecosystem Services	David Moore Application of Ecosystem Services in Natural Resource Management Decision-making
11:05am-11:25am			George Kelly The Farmer Part of the Investment Equation	David Hanson Restoration Scaling of Lost Ecosystem Services in Complex Aquatic Systems	Gregg Simonds Spatially-Explicit Technology Solutions for Greater Sage-Grouse Habitat Assessment	Jan Lewandrowski A Retrospective and Current Examination of the Life-cycle Greenhouse Gas Emissions of Corn-based Ethanol	J.B. Ruhl Adaptive Management of Ecosystem Services Across Land Use Regimes	George Van Houtven Using Ecosystem Service Indicators to Prioritize Land Conservation Investments: An Application for the Taunton River Watershed
11:25am-11:45am	Discussion/Q&A	Discussion/Q&A	Mark Kieser Integration and Extrapolation: Where Can This Go?	Jonas Epstein Evaluating Forest Service Performance Metrics for Fisheries & Aquatic Resources: Shifting from Outputs to Integrated Outcomes	Matt Deniston Technology Tools to Scale Conservation & Mitigation Programs	Discussion/Q&A	Byron Williams Ecosystem Services and Adaptive Management: a Framework for Synthesis	Stephen Posner The Impact of Ecosystem Services on Decisions
11:45am-1:15pm	Lunch Provided							

Wednesday, December 7, 2016

Concurrent Sessions - 4

1:15pm-3:00pm	Session 25	Session 26	Session 27	Session 28	Session 29	Session 30	Session 31	Session 32
Location	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Grand Ballroom 6	Grand Ballroom 7	Grand Ballroom 8	River Terrace 2	River Terrace 3
	Forest Resilience Bond – Financing Fire Management for Water Benefits through Conservation Finance Approaches	Framing Climate Change Science and Adaptation in the Context of Ecosystem Services – Moving the Ball Forward	Environmental-Economic Accounting: Lessons Learned and Experiences from Pilot Studies	Evidence Chains to Take Ecosystem Services from Popular Concept to Widespread Impact	Cultural Ecosystem Services	Ecosystem Services and Business	Irrational Insights into Ecosystem Services: Using Behavioral Economics to Understand Ecosystem Services	Ecological Production Functions: Telling Compelling Stories About Why Ecosystem Change Matters
Moderator	Todd Gartner	Janet Cushing/ Gerard McMahon	Miroslav Honzak	Heather Tallis	Monique Fordham	Nikola Smith	David Chapman	Tamara Blett Mike Bell
1:15pm-1:20pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:20pm-1:40pm	PANELISTS: Todd Gartner Nick Wobbrock Ricardo Bayon Tommie Herbert Adam Carpenter What if the Forest Service and other land managers could access capital from the private sector to accelerate the pace of forest restoration? This panel will focus on a new financial instrument under development, called the Forest Resilience Bond (“FRB”), which enables private capital to invest in natural resources by placing a value on ecosystem services (such as reduced wildfire risk and augmented water quality and quantity).	PANELISTS: James Boyd Mitch Eaton Robert Johnston Elizabeth Murray Richard Palmer This panel will focus on what we know and don't know both in terms of climate change science and ecosystem services assessments, and lay out a way forward to focus research efforts on how climate change scientists and social scientists can work together to help planners and decision-makers consider ecosystem services in the context of climate change.	John Matuszak Natural Capital Accounting and the GEO EO4EA Initiative	Heather Tallis The Need for a Universal Evidence Base for Environment, Health and Development	Benson Sherrouse National Forest Visitation Scenario Impacts on Cultural Ecosystem Services	Valerie Were The Department of Commerce Initiative to Support the Private Sector in Incorporating Natural Capital Values into Business Decisions	Kent Messer Behavioral Nudges in Competitive Environments: A Field Experiment Examining Defaults and Social Comparisons in a Conservation Contract Auction	Randy Bruins Key Attributes of Ecological Production Functions
1:40pm-2:00pm			Mahbubul Alam Experimental Ecosystem Accounting: Recent Developments and Research Gaps	Lydia Olander A Case in Point: Ecosystem Service Causal Models in Southeast US Fire Management	Zach Ancona Incorporating Ecosystem Services into Monarch Habitat Restoration Planning at a Regional Scale	Ione Taylor Upstream, Midstream, and Gently-Down-the-Stream: Integrating Ecosystem Services into the Energy Business	Paul Ferraro Developing Evidence-Based Ecosystem Service Policy Using Behavioral Science and Experimental Design	Michael Bell Developing EPFs: A Process for Linking Environmental Stressors to Ecosystem Services via the STEPS Framework
2:00pm-2:20pm			Kenneth Bagstad Ecosystem Accounting: Applying International Lessons Learned to the United States	Edward Game What Constitutes "Evidence" and How Should We Assess It?	Laurence Jones Modelling Cultural Ecosystem Services: Examples from Four Projects	Robert Griffin Incorporating the Visibility of Coastal Energy Infrastructure into Multi-Criteria Siting Decisions	Michael Hand Behavioral Science in Action: Insights from the White House Social and Behavioral Sciences Team	Claire O'Dea Using the STEPS Framework to Define the Impacts of Air Pollution on Aquatic Final Ecosystem Goods and Services
2:20pm-2:40pm	Discussion/Q&A	Discussion/Q&A	Julian Chow Advancing the SEEA-EEA Framework: Experience from the UN Pilot Project	Jimmy Kagan Using Causal Models for Prioritizing Wetlands	Melissa Kreye Forest Landowner Cultural Values and Willingness to Accept Compensation for Protecting Imperiled Species on Private Forest Lands in Florida	Arturo Sánchez-Porras Implications of Industrialization to the Provision of Ecosystem Services	Jason Shogren Behavioral Environmental Economics and Nudges	Jiangxiao Qiu Causal Networks Linking Ecosystem Change and Society: From Theory to Application
2:40pm-3:00pm			Discussion/Q&A	Discussion/Q&A	Felix Kalaba Forest Cultural Ecosystem Services in Zambia's Forest Ecosystems	Discussion/Q&A	Discussion/Q&A	Christina Wong Strategic Use of Ecological Production Functions to Advance Policy

3:00pm-3:30pm

PM Break - Grand Foyer

Wednesday, December 7, 2016

Concurrent Sessions - 5								
3:30pm-5:15pm	Session 33	Session 34	Session 35	Session 36	Session 37	Session 38	Session 39	Session 40
Location	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Grand Ballroom 6	Grand Ballroom 7	Grand Ballroom 8	River Terrace 2	River Terrace 3
	Pay-for-Success Strategies for Government and Philanthropic Funders to Buy Ecosystem Outcomes and Overcome Demand Uncertainties in New Markets	Climate Change and Ecosystem Services	Spatial Dimensions of Ecosystem Service Values	Carbon Management: Approaches to Assess Sequestration Potential, Value Carbon as a Service, and Inform Land Use Decisions	Guidance for Implementation	Conservation Program and Practice Effects on Wetland Ecosystem Services in Agricultural Landscapes across the U.S.	Critical Gaps and Challenges in the Definition and Implementation of Ecosystem Services	Tools and Assessment
Moderator	Eoin Doherty	Tania Ellersick	Robert Johnston	Emily Pindilli	Erica Goldman	William Effland	Carl Shapiro	Kawa Ng
3:30pm-3:35pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:35pm-3:55pm	Dave Groves Pay for Success — Its Benefits and Limitations in Financing Ecosystem Service Restoration	Chanda Littles A Hypothesis-Driven Framework for Assessing Climate Induced Changes in Coastal Final Ecosystem Goods and Services	Austin Troy A Framework for Categorizing the Spatial Delivery of Ecosystem Services	Bradley Reed National Assessment of Ecosystem Carbon Sequestration and Greenhouse Gas Fluxes	Susan Preston Integrating Biophysical Sciences, Social Sciences, and Economics in Ecosystem Service Assessment: New Guidance	David Mushet Conservation Effects on Ecosystem Services in the U.S. Prairie Pothole Region	Robert Costanza Spatially Explicit Modelling and Gameification of Ecosystem Services	James Meldrum Estimating Ecosystem Service Benefits From a Western US Wilderness Area
3:55pm-4:15pm	Kari Cohen Pay-for-Success — Opportunities for Federal Agencies and Working Lands Conservation	Baishali Bakshi Climate Change, Vegetation Change, and Recreation in Minnesota	Lisa Wainger More than the Sum of Its Parts: Spatial Agglomeration and Network Effects on Ecosystem Service Benefits	Leslie Richardson Valuing Carbon Sequestration Across the National Park System	Jack Cosby Strengths and Weaknesses of Three Ecosystem Services Model Applied in a Diverse UK Catchment	Loren Smith Conservation Program and Practice Effects on Ecosystem Services in the U.S. High Plains	Robert Winthrop Cultural Services as a Limiting Case for the Ecosystem Services Paradigm	Brian Quay Updates to the Benefit Transfer Toolkit for Nonmarket Valuation
4:15pm-4:35pm	Jim Lawrence Implementing a Public-Private Investment Strategy to Overcome Demand Uncertainties of Nevada's Conservation Credit System	Yongyut Trisurat Basin-Wide Assessment on Impacts of Climate Change on Ecosystem Services in the Lower Mekong Basin	Dana Bauer Managing Spatially Distributed Small Natural Features that Provide Large-Scale Ecosystem Services	Rachel Sleeter Carbon Balance Modeling for the Great Dismal Swamp Ecosystem	Jack Cosby Guidance for Users on Ecosystem Service Assessment	Sharon Kahara Drought, Hydrology and Management Implications for Ecosystem Services in Wetlands of California's Central Valley	Ahjong Garmestani Adaptive Governance of Urban Social-Ecological Systems	Jewel Lipps Understanding and Evaluating Ecosystem Services at Superfund Cleanups
4:35pm-4:55pm	Eoin Doherty Pay for Success Contracting Strategies, and Considerations for Selecting the Right Strategy for Your Scenario	Shruti Mishra Estimating the Impacts of Climate Induced Change on River Flow and Ecosystem Services	Ben Gramig Optimization of Agro-Ecosystem Services with Spatial Spillovers	Kristin Byrd Increasing Rangeland Soil Organic Carbon to Mitigate Greenhouse Gases and Increase Climate Resiliency for California	Simone Maynard A Regional Scale 'Stock-Take' of National Policy Implementation of the Ecosystem Services Concept	Gregory McCarty Conservation Program and Practice Effects on Ecosystem Services in the Mid-Atlantic Region of the U.S.	Pierre Glynn Beliefs, Biases, Simplifications, and Other Challenges for the Ecosystem Services Paradigm	Kiichiro Hayashi Spatial Assessment of Equivalency of Urban Forest Ecosystem Services in Nagoya, Japan
4:55pm-5:15pm	Eric Letsinger Pay for Success: DC Water's Green Infrastructure Environmental Impact Bond Overview	Rebecca Runting Incorporating Climate Change into Ecosystem Services Assessments and Decisions: A Review	Robert Johnston Multidimensional Spatial Heterogeneity in Ecosystem Service Values: Advancing the Frontier	Marci Baranski Tools and Methods to Manage Carbon Sequestration in Agriculture and Forestry	Discussion/Q&A	William Effland Integrating Wetland Conservation Practices into CEAP Cropland Assessment	Kenneth Bagstad Synthesis and Discussion	Ruchi Badola Application of Economic Tools for Wildlife Conservation: Case Studies From Protected Areas of India
5:30pm-6:45pm	Wednesday Evening Town Hall Meetings							
The Value of Natural Capital to Business - The Application of the Natural Capital Protocol			What's Next for Ecosystem Services in Decision Making: Priorities and Pathways			Native American Sacred Sites and Climate Change: Spiritual and Cultural Aspects		
Grand Ballroom 1			Grand Ballroom 2			Grand Ballroom 3		
Organized By: Doug MacNair, Natural Capital Coalition			Organized By: Lydia Olander, Duke University			Organized By: Monique Fordham, U.S. Geological Survey		
Introduction & Overview (5 min)			Introduction & Overview (5 min)			Introduction & Overview (5 min)		
Town Hall Discussion (1 hour, 10 min)			Town Hall Discussion (1 hour, 10 min)			Town Hall Discussion (1 hour, 10 min)		

Thursday, December 8, 2016

7:30am-5:30pm

Conference Registration Open - Second Floor Sky Bridge
Ad Hoc Space Available - City Terrace Rooms 5, 6, and 8

7:30am-8:30am

Morning Refreshments - Grand Ballroom 5 and Foyer

8:30am-9:30am

Plenary Session 4 - Grand Ballroom 4

Plenary Session

Implementation Status and Challenges: International Perspectives

Moderator: Simone Maynard, Principal, Simone Maynard Consulting and Scholar, Australian National University

Panel Members

Yongyut Trisurat, Professor of Forestry, Kasetsart University

Ruchi Badola, Scientist/Senior Professor, Ecodevelopment Planning and Participatory Management, Wildlife Institute of India

Laurence Jones, Ecologist, UK Centre for Ecology & Hydrology

Bedilu Amare Reta, Environmental Compliance Advisor, Feed the Future Ethiopia Farm Service Project, Cultivating New Frontiers in Agriculture (CNFA), Ethiopia Field Office

Plenary Description

Panelists in this plenary session will discuss and compare international ecosystem service implementation status and challenges with perspectives from Australia, UK and the EU, Thailand, India, and Africa. The discussion will include the theory, practice and use of ecosystem services, and what lessons could be learned.

9:30am-10:00am

AM Break - Grand Foyer

Thursday, December 8, 2016

Concurrent Sessions - 6								
10:00am-11:45am	Session 41	Session 42	Session 43	Session 44	Session 45	Session 46	Session 47	Session 48
Location	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Grand Ballroom 6	Grand Ballroom 7	Grand Ballroom 8	River Terrace 2	River Terrace 3
	State of Private Investment in Natural Capital	Using Ecosystem Services as a Shared Language for Effective Stakeholder Engagement	Coastal Ecosystem Services I	Optimization of Ecosystem Services in Urban and Landscape Planning	Sustaining Environmental Capital Initiative: Integrating Ecosystem Services in Public Land & Water Management & Policy	Markets	Valuation of Ecosystem Services Available from Farms and Forests	Efforts and Experiences Incorporating Ecosystem Services into the USDA Forest Service Mission
Moderator	Ricardo Bayon	Kevin Halsey	Ariana Sutton-Grier	Richard Wenning	Rudy Schuster	Tracy Stanton	Christopher Hartley	Jeffrey Kline
10:00am-10:05am	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:05am-10:25am	PANELISTS: Roger Williams Kari Cohen Eric Hallstein George Kelly This interactive panel discussion will review the findings of a new report – State of Private	Kevin Halsey Identifying Service Flows During the Ecosystem Services Quantification Process	Jarrold Loerzel Economic Valuation of Shoreline Protection Provided by Natural Infrastructure	Ingrid Boklund MatrixGreen as an Application to Identify the Connections of Liveability in Udaipur	Rudy Schuster Incorporating Ecosystem Services Into Natural Resource Decision Making: Department of the Interior Work Plan & the Sustaining Environmental Capital Initiative	Marzieh Motallebi Impact of Relative Demand for Ecosystem Services on Their Stacking Markets	Lisa Wainger Crucial Elements of a Systematic Reporting System for Ecosystem Service Valuation	Kawa Ng Ecosystem Services Assessed in Forest Planning: Indicators, Trends, and Beneficiaries
10:25am-10:45am	Investment in Conservation – and will reflect both on the evolution of conservation finance and investment in natural capital in the last decade and on trends and opportunities for the immediate future.	Jennifer Molnar Enabling Businesses to Incorporate the Economic Value of Ecosystem Services into Project Evaluation	Sarah Gonyo The Non-Market Value of the Outer Coast of Washington State	Gretchen Greene Ecosystem Services in Climate Change Adaptation Planning	Emily Pindilli Chesapeake Bay Watershed: Stream and Floodplain Ecosystem Services	John Diaz Market-Based Conservation for Working Lands, Natural Resources and Military Training: Lessons Learned From the Market Based Conservation Pilot	Kate Zook Carbon Sequestration Valuation of United States Forests and the Potential for Policy Impacts	Matt Elmer Indicators and Methods for Water-related Ecosystem Services in Forest Planning
10:45am-11:05am	Discussion/Q&A	France Guertin Using the ESII Tool to Improve Corporate-External Stakeholder Engagement Outcomes	Jonathan Halfon Lessons Learned from Applying an Ecosystem Services Framework for Post-Hurricane Sandy Recovery and Resiliency	Lars Johansson Practical Applications of Social-Ecological Urbanism (Ecosystem Services) Within a Liveable City Framework	Dan Spooner Linking Water Management and Natural Capital Using an Ecosystem Services Framework	John Raffensperger A "Smart" Nutrient Market for Point and Nonpoint Source Users and Wetland Builders	Noel Gollehon Determination and Valuation of Water-Quality Ecosystem Services Available From Farms	Nikola Smith Incorporating Ecosystem Services in Tradeoff Analysis to Facilitate Forest Planning
11:05am-11:25am		Doug MacNair Building Stakeholder Consensus Using Multi-Criteria Decision Analysis Tools	Danielle Schwarzmann Applying the DPSEr Framework to Channel Islands National Marine Sanctuary	Kaisa Mustajärvi Ecosystem Services Approach as a Tool for Regional Planning	Chris Huber Leveraging the USGS National Water-Quality Assessment Program Data in Hedonic Property Models	Katherine Sever Pinot or Potatoes? A Case Study of Governance & Accountability in Emerging Water Quality Markets	Rich Iovanna Pollinator Habitat: A Case-study in Policy-Relevant Ecosystem Service Valuation	Robert Deal Integrating Ecosystem Services into USFS Policy and Operations
11:25am-11:45am		Discussion/Q&A	Discussion/Q&A	Sean O'Malley Landscape Infrastructure as Framework for City-Building	Tim Kern Designing and Implementing an Ecosystems Services Data Integration and Distribution Framework	Laura Wood Streamlining Practices for Generating Water Quality Trading Credits: BMP Guideline National Templates	David Ervin Lessons and Implications for Ecosystem Service Valuation Beyond USDA	Discussion/Q&A
11:45am-1:15pm	Lunch Provided							

Thursday, December 8, 2016

Thursday Lunch Town Hall Meetings

12:00pm-1:05pm	<p>EnviroAtlas' New Environmental Markets Decision Support Tools: Linking Ecosystem Services with Environmental Markets Data and Policies</p> <p>Grand Ballroom 1</p> <p>Organized By: Christopher Hartley, USDA</p> <p>Introduction & Overview (5 min)</p> <p>Town Hall Discussion (1 hour)</p>							
		<p>Ecosystem Services 2.0: Enabling Civic Ecology through Participatory Science and Open Innovation</p> <p>Grand Ballroom 2</p> <p>Organized By: Sophia Liu, U.S. Geological Survey</p> <p>Introduction & Overview (5 min)</p> <p>Town Hall Discussion (1 hour)</p>			<p>ACES Fellows: The Next Generation</p> <p>Grand Ballroom 3</p> <p>Organized By: Dianna Hogan, U.S. Geological Survey</p> <p>ACES Fellows providing thoughts and discussion about their ACES experience and perspectives on the future direction of ecosystem services.</p>			
Concurrent Sessions - 7								
1:15pm-3:00pm	Session 49	Session 50	Session 51	Session 52	Session 53	Session 54	Session 55	Session 56
Location	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Grand Ballroom 6	Grand Ballroom 7	Grand Ballroom 8	River Terrace 2	River Terrace 3
	Do Offshore Oil and Gas Platforms and Infrastructure Provide Valuable Ecosystem Services?	Research to Enhance Ecosystem Services in Southeastern US Agriculture through Landscape Planning and Design	Common Ground for Ecosystem Services and Marine Ecosystem-Based Management at the Intersection of Science and Policy	Urban Ecosystem Services I	Recreation, Wilderness and Ecosystem Services	If You Don't Like the Outcome Change the Rules: Incentivizing Market Development	Governing Ecosystem Service Flows: Minding the Gap Between Landscape-level Processes, Local Management Decisions and Policy	
Moderator	Joe Nicolette	Alisa Coffin	Stephen Posner	Gretchen Greene	Kaisa Mustajarvi	Christopher Hartley	Kim Hall	
1:15pm-1:20pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	
1:20pm-1:40pm	PANELISTS: Joe Nicolette Tom Campbell Larry Johnson Victoria Todd Mark Rockel	PANELISTS: Dixon Landers Dawn Olson Hilary Swain Steve Traxler Charlie Walthall	Heather Leslie Ecosystem Services and Sustaining Coupled Social-Ecological Marine Systems	José Soto Scale Effects & Consumer Demand for Urban Forest Services and Disservices	Marie Donahue Using Social Media to Assess Urban Park Visitation and Recreation Services	Christopher Galik Early Action Incentives in U.S. Environmental Markets	Mindy Crandall Connecting Economic, Social, and Ecological Information for Forest-Located Rural Communities	
1:40pm-2:00pm	The question as to the value of offshore oil and gas platforms and subsea infrastructure to provide ecosystem services is of increasing importance.	This panel presents perspectives from some leading research agencies envisioning the future of agricultural landscapes of the southeastern USA.	Ariana Sutton-Grier The Potential for Managing Coastal Systems to Provide Ecosystem Services and Enhance Resilience	Ram Pandit Economic Valuation of Tree Cover in Perth, Australia	Jeffrey Kline Recreation Use Values for Estimating Outdoor Recreation Benefits	Kurt Stephenson The Role of In-Lieu Fee Programs in Accelerating Third Party Compensatory Mitigation	Jane Harrison When Ecosystem Service Flows Break Down: Barriers to Applying Ecosystem Service Science to Fisheries Management	
2:00pm-2:20pm	Recent fisheries and marine mammal data indicate that offshore structures can create significant ecological productivity above natural reef systems and support a variety of marine mammal populations.	Panelists will discuss current research activities and knowledge gaps related to agricultural ecosystem services. They will address questions about designing and creating agricultural landscapes of the future that will enhance, on the one hand, crop and livestock yields that have long supported human populations, and on the other hand, ecosystem services that are critical to the long-term resilience of the region.	Frank Schwing Federal Ecosystem-Based Management to Sustain Marine Ecosystem Services: From Concept to Practice	M.J. Van Maasackers New Approaches to Engaging Stakeholders Regarding Urban Ecosystem Services on Vacant Land	Leslie Richardson Valuing On-Site and Virtual Bear Viewing in Katmai National Park & Preserve	Stephanie Larson Changing Conservation Easement Structures: Payments for Ecosystem Services (PES)	Marco Vizzari Mapping Livability by Integrating Ecosystem and Urban Services with Stakeholder Perceived Importance	
2:20pm-2:40pm	This session will focus on applying net environmental benefit analysis (NEBA) approach to evaluate options for offshore decommissioning by applying scientific data to case studies.		Anne Guerry Getting to Transformation: The Science and Practice of Using Ecosystem Service and Ecosystem-Based Management Approaches in Decisions	Theodore Weber Spatial Valuation of Ecosystem Services in the Chicago Metropolitan Region, USA	James Meldrum Evaluating the Economic Benefits of Invasive Species Management in Non-Timber Forests: Stakeholder Groups and Means-Versus-Ends	Jordan Wellwood If You Don't Like the Outcome, Change the Rules: Pop-Up Habitat	Kathleen Williams Using Volunteered Geographic Information to Visualize Community Values of Ecosystem Services for Habitat Restoration and Neighborhood Revitalization	
2:40pm-3:00pm	Discussion/Q&A	Discussion/Q&A	Discussion/Q&A	Discussion/Q&A	Paul Ringold What Information Do We Have to Identify and Evaluate Ecological Metrics and Indicators that Directly Matter to People?	Christopher Hartley Who Makes the Rules, Anyway?	Mahbulul Alam Sustainable Landscapes: The Future We Want	
3:00pm-3:30pm	PM Break - Grand Foyer							

Thursday, December 8, 2016

Concurrent Sessions - 8

3:30pm-5:15pm	Session 57	Session 58	Session 59	Session 60	Session 61	Session 62	Session 63	Session 64
Location	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Grand Ballroom 6	Grand Ballroom 7	Grand Ballroom 8	River Terrace 2	River Terrace 3
	Using the Ecosystem Service Approach to Help Understand Trade-offs for Resources Management Decisions at the Department of the Interior	Innovative Approaches to Scaling Stormwater Green Infrastructure	Valuing Ecosystem Services of Coastal Natural Infrastructure	Urban Ecosystem Services II	Ecosystem Services and Biodiversity	Examining the Link Between Transaction Costs and Private Landowner Participation in Environmental Markets	Using Ecosystem Services to Inform Conservation Decisions at a Landscape Scale	
Moderator	Emily Pindilli	Neil Crescenti	Margaret Walls	Lars Johansson	Lisa Wainger	Mindy Selman	Steve Traxler	
3:30pm-3:35pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	
3:35pm-3:55pm	PANELISTS: Edward Mailett Emily Pindilli Rebecca Moore This panel will focus on the use of Ecosystem Service Analysis at the Department of the Interior, provide some information policy directions and examples from DOI Bureaus.	PANELISTS: Seth Brown Brian Van Wye Laura Kimes Claudio Ternieden This panel will explore a variety of approaches to scaling green infrastructure for stormwater management. Green infrastructure can be highly cost effective, and it provides a suite of ecosystem services that can address multiple priorities for city planners. To date, few cities are implementing green infrastructure at a broad scale. This session will address: driving down costs through strategic implementation; creative business models that leverage multiple funding streams; unique partnerships and finance mechanisms that connect project developers with impact investors; and integrative approaches to build broad support within and outside of local agencies.	Elizabeth Schuster Integrating Nature Based Tourism into Coastal Resilience	Charmaine Dahlenburg Defining the Best Natural Enhancements and Innovative Technologies to Deliver Ecosystem Services to Highly Urbanized Waterfronts	Claudia Sattler 66 Ways to Save the World: Forms of Online Engagement for Ecosystem Services and Biodiversity Protection	Kate Zook Transaction Costs in U.S. Environmental Markets	Cynthia Edwards Ecosystem Services as Part of the Southeast Conservation Adaptation Strategy (SECAS)	
3:55pm-4:15pm	Discussion/Q&A		Luke Boutwell Estimating the Cost of Wetland Loss in Louisiana in Terms of Vulnerability to Hurricane Damages	Douglas Shoemaker The Impact of Urban Pattern on Ecosystem Services: Exploring the Potential for Sprawl Alternatives to Reduce Environmental Degradation and Accommodate Economic Growth	S. Lan Smith Towards Bridging Theory and Practice to Consider Biodiversity and Resilience for Ecosystem Services	Billy Gascoigne Case Study--Generating Grassland Carbon Offsets	Emily Powell A Synthesis of Habitat Threshold Data for Use in Coastal Resilience Planning	
4:15pm-4:35pm			Craig Landry Economic Values of Coastal Erosion Management: Joint Estimation of Use and Passive Use Values with Recreation and Contingent Valuation Data	Monica Hammer Ecosystem Services in Peri-Urban Planning for Sustainable Urban Development - Experiences from the Stockholm Region, Sweden	William Kepner A National System to Map and Quantify Terrestrial Vertebrate Biodiversity	Robert Parkhurst Reducing the Verification Costs for Carbon Offsets on Working Lands	Lars Pomara Cumulative Impacts - New Sustainability Framework for the Appalachian LLC	
4:35pm-4:55pm			Margaret Walls Valuing Ecosystem Services of Coastal Wetlands: Protection from Storm Surge	Tingting Liu Do Combined Sewer Overflows Have an Impact on Housing Prices?	Kenneth Boykin Representation of Reptile Biodiversity and Ecosystem Services Within the Protected Areas of the Conterminous United States	Mindy Selman Influence of Risk on Transaction Costs in Water Quality Trading Markets	Chris Kelble Investigating the Resiliency of Ecosystem Services to Climate Change in South Florida Coastal Ecosystems	
4:55pm-5:15pm		Discussion/Q&A	Lou Nadeau Valuing Ecosystem Services from Salt Marsh Restoration Related to Hurricane Sandy	Discussion/Q&A	Discussion/Q&A	Kurt Stephenson Transaction Costs for Nonpoint Source WQT Credits: Implications for the Chesapeake Bay	Lydia Olander and Sara Mason Assessment of Ecosystem Service Supply and Landowner Priorities and Their Implications for Program Delivery: A Model for Targeting Landowner Engagement	

5:30pm-7:30pm

Poster Session Reception - Grand Ballroom 5 and Foyer

Friday, December 9, 2016

7:30am-12:00pm	Conference Registration Open - Second Floor Sky Bridge Ad Hoc Space Available - City Terrace Rooms 5, 6, and 8							
7:30am-8:30am	Morning Refreshments & Poster Removal - Grand Ballroom 5 and Foyer							
Concurrent Sessions - 9								
8:30am-10:15am	Session 65	Session 66	Session 67	Session 68	Session 69	Session 70	Session 71	Session 72
Location	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Grand Ballroom 6	Grand Ballroom 7	Grand Ballroom 8	River Terrace 2	River Terrace 3
	Willingness to Pay	Connecting Tribal Cultural Knowledge, Well-Being & Governance to Ecosystem Services Concepts	Coastal Ecosystem Services II	Soil Health for Ecosystem Goods and Services: Interactions, Climate Effects, and Valuation	Payment for Ecosystem Services	Putting a Value on Conservation: Using Environmental Markets in the Midwest	Mainstreaming the Value of Nature in Business: Groundbreaking Results as the 6-year TNC-Dow Collaboration Culminates	
Moderator	Leslie Richardson	Jeffrey Thomas	Valerie Were	Kristie Maczko	Robert Deal	James Klang	Jennifer Molnar	
8:30am-8:35am	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	
8:35am-8:55am	Margaret Walls Payments for Ecosystem Services from Forests: Do They Represent Willingness to Pay?	Session in Formation	Matt Luxon Mud or Money - Simple Tools to Offset City of Seattle Marine Shoreline Ecosystem Service Losses With Equal Gains or Payment	Dennis Chessman Soil Health: The Foundation for Sustainable Provision of Ecosystem Goods and Services	Robert Griffin Quality Information and Procurement Auction Outcomes: Evidence From a Payment for Ecosystem Services Laboratory Experiment	Brian Brandt A Pollinator Habitat Credit Program on Permanently Protected Farms in Michigan	Jennifer Molnar Making a Case for Integrating Nature in Business: Lessons From a Unique NGO-Corporate Collaboration	
8:55am-9:15am	Melissa Kreye Analysis of Voter Preferences and Willingness to Pay for Clean Water Services in the Eastern US		Susan Lovelace Social Values of Charleston Area Beaches	Urs Kreuter Framework for Soil Health as Natural Capital that Generates Ecosystem Services	Elizabeth Porter The Case For Conserving and Regenerating Ecosystems Through the Creation of an "Ecosystem Equity Line of Credit"	Gregory Bohrer Field Stewards: Growing a Market for Clean Water	Kevin Halsey Making Nature Valuation "ESII": Enabling Decision-making	
9:15am-9:35am	Yui Takase Trend of the Public's Evaluation of Ecosystem Services by WTP from a National Survey in Japan		Laura Bankey Beyond Planning and Restoration: Using Strategic Partnerships to Support, Enhance, and Expand Coastal Restoration Projects in Urban Areas	Caitlin Rottler Potential Effects of Climate Change on Soil Health and Ecosystem Goods and Services	Jennifer Egan Simulating Substitutable Water Quality Policies: Payments for Outcomes Versus Payments for Practices	Paul Helgeson Reducing GNP Company's Environmental Footprint Across Our Value Chain	Todd Guidry Dow's 2025 Nature Goal: Scaling Corporate Decisions and Culture Change in Valuing Nature	
9:35am-9:55am	Ram Pandit Mainstreaming Payment for Ecosystem Services in Drinking Water Schemes: Evidences from Koshi Hills, Nepal		Lawrence Martin Using a Sustainability Context to Drive Ecosystem Services Analysis for Decision Making	John Ritten Methods and Challenges For Valuation of Soil Health Benefits	Sarun Kamolthip Landowners' Preferences for a Payments for Environmental Services Program: A Case Study in East Thailand	James Klang Payment for Ecosystem Services to Reduce Bacteria from Agricultural Livestock	Thomas Polzin Next Steps in Mainstreaming the Value of Nature: Changes in Culture, Policy, and Industry	
9:55am-10:15am	Discussion/Q&A		Discussion/Q&A	Holly Dyer Valuing Soil Health Benefits for Wyoming Ranchers	Discussion/Q&A	Discussion/Q&A	Discussion/Q&A	Discussion/Q&A
10:15am-10:45am	AM Break/Exhibit Removal - Grand Ballroom 5 and Foyer							
Friday, December 9, 2016								

10:45am-12:00pm	<p style="text-align: center;">Closing Plenary Session - Grand Ballroom 4</p> <p style="text-align: center;"><u>Closing Plenary Session</u></p> <p style="text-align: center;">Synthesis: Key Findings and Next Steps</p> <p style="text-align: center;">Moderator: Erica Goldman, Director of Policy Engagement, COMPASS</p> <p style="text-align: center;"><u>Panel Members</u></p> <p style="text-align: center;">Christopher Hartley, Deputy Director and Senior Environmental Markets Analyst, U.S. Department of Agriculture Kaola Swanson, Associate Conservation Director, The Freshwater Trust Susan Preston, Senior Policy Analyst, Government of Canada Murray Hitzman, Associate Director for Energy and Minerals, U.S. Geological Survey Lydia Olander, Director, Ecosystem Services Program, Nicholas Institute for Environmental Policy Solutions, Duke University</p> <p style="text-align: center;"><u>Plenary Description</u></p> <p>The closing session at ACES 2016 will provide a synthesis of conference findings, lessons learned, and next steps. Panelists were chosen to provide a diversity of perspectives by including a mix of seasoned ecosystem service experts with those newer to the field to provide a unique angle. Panelists will discuss opportunities, needs, and challenges for advances in ecosystem service implementation.</p>
12:00pm-1:00pm	<p style="text-align: center;">Conference Concludes</p> <p style="text-align: center;">Post-Conference Field Trip</p> <p style="text-align: center;">Last Call - Poster, Display, and Exhibit Removal</p>