

# ACES 2018 - A Community on Ecosystem Services

## Detailed Agenda

### Sunday, December 2, 2018

5:00pm-7:00pm	Pre-Conference Registration Opens, Early Exhibitor Move-In and Poster Set-Up - Arlington Ballroom Salons 1-3
5:00pm-5:30pm	ACES Volunteer Meeting - Skyview Terrace

### Monday, December 3, 2018

7:30am-6:00pm	Conference Registration Open - Skyview Terrace
7:30am-8:30am	<b>Morning Refreshments and Exhibit / Poster Set-Up - Arlington Ballroom Salons 1-3</b>

#### Morning Pre-Conference Workshops

	Workshop 1 All Day	Workshop 2 All Day	Workshop 3 - AM	Workshop 4 - AM	Workshop 5 - AM	Workshop 6 - AM	Workshop 7 - AM
8:30am-12:00pm	Grand Ballroom Salon A	Grand Ballroom Salon B	Grand Ballroom Salon C	Grand Ballroom Salon DE	Grand Ballroom Salon FG	Grand Ballroom Salon H	Grand Ballroom Salon J
<b>Organizer</b>	Ken Bagstad, U.S. Geological Survey	Kevin and Kenna Halsey, EcoMetrix Solutions Group	Richard Wenning, Ramboll	Brian Wee, Neptune and Company Inc.	Scott Chiavacci, U.S. Geological Survey	Doug MacNair, Natural Capital Coalition	Lydia Olander, Duke University
8:30am-10:00am	A Tool for Rapid and Customizable Ecosystem Service Assessment: the ARIES Explorer	Hands-On Ecosystem Services: Interactive Training of the ESII (Ecosystem Services Identification & Inventory) Tool	Applying an Ecosystem Services Framework to Urban Planning and Design	Conceptual and Practical Tools for Navigating the Environmental, Social, and Economic Trade-Offs for Stakeholder-Driven Sustainability Planning	Development of a How-to Guide for Building Quantification Tools Used in Habitat and Biodiversity Markets	Informing Business Decision Making with the Natural Capital Protocol	Methods for Incorporating Ecosystem Services into Decision-Making: Conceptual Models and Benefit Relevant Indicators

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

	Workshop 1 All Day	Workshop 2 All Day	Workshop 8 - PM	Workshop 9 - PM	Workshop 10 - PM	Workshop 11 - PM
1:30pm-5:00pm	Grand Ballroom Salon A	Grand Ballroom Salon B	Grand Ballroom Salon C	Grand Ballroom Salon DE	Grand Ballroom Salon FG	Grand Ballroom Salon H
<b>Organizer</b>	Ken Bagstad, U.S. Geological Survey	Kevin and Kenna Halsey, EcoMetrix Solutions Group	Jeffrey Thomas, Puyallup Tribe of Indians	Patrick Coady, Seale & Associates, Inc.	Christine Jacobs, The Nature Conservancy	Roseimery Portela, Conservation International
1:30pm-3:00pm	A Tool for Rapid and Customizable Ecosystem Service Assessment: the ARIES Explorer	The ESII Tool in Practice: Using the Results of the ESII Tool for Multiple Applications	Baseline Program Concepts to Use to Protect Cultural Ecosystem Services	Environmental Markets: Developing a Business and Finance Plan	Linking Ecosystem Services to Human Health and Development Impacts – with Evidence	Streamlining the Inclusion of "Marine Natural Capital" Into Business Decision Making

3:00pm-3:30pm	PM Break - Foyer
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3:30pm-5:00pm	Afternoon Workshops Continued
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5:15pm-5:30pm	Moderator Meeting - Salon H
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5:30pm-7:30pm	Pollinator Workshop - Salon JK
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Tuesday, December 4, 2018	
7:30am-5:30pm	Conference Registration Open - <i>Skyview Terrace</i>
7:30am-8:30am	<b>Morning Refreshments and Poster Set-Up</b> - <i>Arlington Ballroom Salons 1-3</i>
8:30am-9:45am	<b>Opening Plenary Session</b> - <i>Arlington Ballroom Salons 4-6</i>
	<b>ACES 2018 Welcome</b> <b>Dianna Hogan</b> , Deputy Regional Director for Science, Southeast Region, U.S. Geological Survey, ACES 2016/2018 Conference Chair
	<b>Opening Plenary Session</b> <b>Ecosystem Services: Opportunities and Challenges</b> <b>Moderator: Ione Taylor</b> , Executive Director, Earth and Energy Resources Leadership, Queen's University  <b>Panel Members</b> <b>Bill Werkheiser</b> , Deputy Director, U.S. Geological Survey <b>Mark Gough</b> , Executive Director, Natural Capital Coalition <b>Robert Costanza</b> , Professor of Public Policy, Crawford School of Public Policy, Australian National University
	<b>Plenary Description</b> The opening session is a forum for leaders in the field of ecosystem services to provide welcoming keynote addresses to discuss recent accomplishments, challenges, and direction in the field.
9:45am-10:15am	<b>AM Break - Arlington Ballroom Salons 1-3</b>

Tuesday, December 4, 2018									
Concurrent Sessions - 1									
10:15am-12:00pm	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8	
Location	Grand Ballroom Salon A	Grand Ballroom Salon B	Grand Ballroom Salon C	Grand Ballroom Salon DE	Grand Ballroom Salon FG	Grand Ballroom Salon H	Grand Ballroom Salon J	Grand Ballroom Salon K	
	<b>Informing Policy</b>	<b>Valuation: Theory and Methods</b>	<b>Nature-Based Infrastructure in Water Resources and Disaster Risk Management: Insights from the World Bank</b>	<b>Incentivizing Participation in Forest Carbon Markets</b>	<b>Ecosystem Service Valuation and Culture Change in the Private Sector</b>	<b>Cultural Ecosystem Services: Spiritual and Heritage Benefits</b>	<b>Does Energy Sector Generate Significant Ecosystem Services Benefits?</b>		
<b>Moderator</b>	<b>Aliza Wasserman</b>	<b>Frank Casey</b>	<b>Suzanne Ozment</b>	<b>Marzieh Motallebi</b>	<b>Thomas Polzin</b>	<b>Rudy Schuster</b>	<b>Shruti Mishra</b>		
10:15am-10:20am	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction		
10:20am-10:40am	<b>Stephanie Larson</b> Incentivizing Ecosystem Services - Presumption to Practice to Policy	<b>Rosalind Bark</b> Valuing Landscape Futures: Ecosystem Services and Beneficiaries Trade-Offs	PANELIST NAMES: <b>Raul Munoz Castillo</b> <b>Beth Bafford</b> <b>Irene Rehberger Bescos</b> <b>Denis Jordy</b>	<b>Mustapha Alhassan</b> Forestland Owners' Willingness to Participate in Carbon Markets	PANELIST NAMES: <b>Thomas Polzin</b> <b>Todd Guidry</b> <b>France Guertin</b> <b>Martha Rogers</b> <b>Kevin Halsey</b>	<b>Rachelle Gould</b> Cultural Ecosystem Services and Decision-Making: A Review	<b>Cristina Negri</b> Valuation of Benefits from Alternative Bioenergy Landscape		
10:40am-11:00am	<b>Seth Soman</b> Virtual Watershed: a Spatial Decision Support System for an Agricultural Watershed	<b>Jean-Michel Larivière</b> The Environmental Valuation Reference Inventory (EVRI) 2.0	This panel will focus on the expanding role of nature-based infrastructure in development projects, especially those that address water security and disaster risk concerns. It will feature perspectives from the World Bank and other investors in nature-based infrastructure, and highlight findings of a new report from the World Bank and World Resources Institute.  <b>Discussion/Q&amp;A</b>	<b>Lucas Clay</b> South Carolina Forests' Potential to Contribute to the California Carbon Market	How can a company whose core business is turning feedstocks into chemicals derive financial value from ecosystem services? Dow's Valuing Nature corporate sustainability goal has confronted new opportunities and new challenges, challenges that have required new approaches, new processes and ultimately a new vision for culture change. The discussion will focus on lessons learned and tools in order to integrate the value of ecosystem services into their work.	<b>Rémi Jaligot</b> Participatory Mapping of Cultural Ecosystem Services in a Federal State: Lessons Learnt From Switzerland	<b>Shruti Mishra</b> Estimation of the Benefits of Solar Pollinator Habitat in the Conterminous US		
11:00am-11:20am	<b>Craig Beatty</b> Landscapes, at Your Service: Optimizing Ecosystem Services Decision-Making in Restoration Using the Restoration Opportunities Optimization Tool (ROOT)	<b>Hermine Vedogbeton</b> Commodity Consistent Meta-Analysis of Wetland Ecosystem Service Values		<b>Brian Kittler</b> Forest Carbon Management and Incentives for Non-Industrial Forests: Lessons from the Pacific Northwest		<b>Discussion/Q&amp;A</b>	<b>Alison Adams</b> Cultural Ecosystem Services and Coral Reefs in West Hawai'i	<b>Meltem Urgun Demirtas</b> Ecosystem Services of Livestock Waste Based Energy Generation	
11:20am-11:40am	<b>Elliott Campbell</b> Mapping Ecosystem Services for Decision Making in Maryland	<b>James Meldrum</b> Estimating Ecosystem Damages from Wildfire: Comparison of Two Valuation Methods		<b>Jane Rice</b> Cracking the Aggregation Nut: A Cooperative Approach to Forest Carbon Crediting			<b>Tatiana Gladkikh</b> The Impact of Interactions with Nature on Well-Being Amongst Refugee Communities	<b>Sujith Ravi</b> Benefits of Intercropping in Solar Facilities	
11:40am-12:00pm	<b>Darius Semmens</b> Mapping Aggregate Flows of Ecosystem Services from Multiple Migratory Species	<b>Kristen Vitro</b> Cost Benefit Analyses of Ecosystem Services: Some Fundamental Economic Considerations and Contradictions		<b>Mark McPherson</b> National Monetization of Ecosystem Services in Urban Forests	<b>Discussion/Q&amp;A</b>	<b>Israel Borokini</b> Conservation and Ecosystem Services of Sacred Natural Sites in Nigeria Through Traditional Knowledge and Laws	<b>Discussion/Q&amp;A</b>		
12:00pm-1:30pm <b>Lunch Provided</b>									
<b>Tuesday Lunch Town Hall Meetings</b>									
12:15pm-1:15pm	<b>Don't Forget the People - Environmental Justice and Ecosystem Services</b>				<b>Incorporating Ecosystem Services Through Natural Infrastructure: Diverse Perspectives from the Business World</b>				
<b>Location</b>	<b>Grand Ballroom Salon FG</b>				<b>Grand Ballroom Salon H</b>				
<b>Organizer</b>	<b>Chris Hartley</b>				<b>Martha Rogers</b>				
12:15pm-12:20pm	<b>Introduction</b>				<b>Introduction</b>				
12:20pm-1:15pm	<b>Town Hall Discussion</b>				<b>Town Hall Discussion</b>				

Tuesday, December 4, 2018

Concurrent Sessions - 2

1:30pm-3:15pm	Session 9	Session 10	Session 11	Session 12	Session 13	Session 14	Session 15	Session 16	
Location	Grand Ballroom Salon A	Grand Ballroom Salon B	Grand Ballroom Salon C	Grand Ballroom Salon DE	Grand Ballroom Salon FG	Grand Ballroom Salon H	Grand Ballroom Salon J	Grand Ballroom Salon K	
	Using Ecosystem Services to Improve Federal Agency Efficiency and Communication: US Forest Service Perspectives	Measuring the Value of Ecosystem Services within USDA: The Prospects and Potentials of Innovative Approaches		Lessons from the Front Lines of Agricultural Water Quality Markets	Toward One Billion Acres: a Vision for Growing the Carbon Sink	Models	Exploring Ecosystem Services in the Chesapeake Bay	Valuation of Ecosystem Services – Costs and Benefits of Sustainable Land Management	
Moderator	Robert Deal	Daniel Hellerstein		Kristiana Teige Witherill	James Mulligan	Sarah Ryker	Mindy Selman	Ida Kubiszewski	
1:30pm-1:35pm	Introduction	Introduction		Introduction	Introduction	Introduction	Introduction	Introduction	
1:35pm-1:55pm	Jonas Epstein Applying an Ecosystem Services Framework to Forest Plan Assessments	Robert Johnston Extending the Use of Meta-analysis for Ecosystem Services Valuation		Jessica Fox Advancing Sustainable Farms Through Environmental Markets: Ohio River Basin Water Quality Trading Project	PANELIST NAMES: James Mulligan Debbie Reed Jad Daley Alexander Rudee Pipa Elias	Tammy Newcomer-Johnson EPA's EcoService Models Library (ESML): A New Tool for Quantifying and Valuing Ecosystem Services	Anne Neale Ecosystem Services in the Chesapeake Bay Watershed Through the Lens of Enviroatlas	Mark Schauer ELD 6+1 Approach	
1:55pm-2:15pm	Lindsay Buchanan Collaborative Forest Landscape Restoration (CFLR) Program Challenges and Opportunities: A Template for Landscape Scale Restoration	Klaus Moeltner Nonlinear Meta-regression for Benefit Transfer		Dustin Miller Developing a Market Framework for Ag Water Quality Credit Trading in Iowa and Laying the Groundwork for Expansion to the Mississippi River Basin	This panel aims to build momentum, new ideas, and new partnerships for a broad-based coalition to accelerate carbon storage and other ecosystem services in natural and working lands. The panel will explore challenges and opportunities across both the forest and agricultural sectors, linkages to ecosystem services and the profitability of working lands, and near-term strategies to catalyze long-term transformation.	Theodore DeWitt Assessing the Transferability of Ecological Models to New Settings	Lisa Wainger Valuing Ecosystem Service Changes from Chesapeake Bay Restoration	Paul Sutton A Web Mapping Application for Ecosystem Service Valuation	
2:15pm-2:35pm	Emma Underwood Evaluating the Impact of Climate Change on Ecosystem Services in Southern California	Thomas Holmes Using Hedonic and Life Satisfaction Models to Estimate Shadow Costs of Forest Ecosystem Degradation		Rich Duesterhaus Enlisting Conservation Districts to Accelerate Participation in Environmental Markets	Nicole Zacharda Erie P Market: Multijurisdictional Agricultural Water Quality Markets In the Western Lake Erie Basin	Elizabeth Smith Beyond the Service-Shed: Translating Ecosystem Services into Human Well-Being	Thomas Ihde Estimating the Ecosystem Services of Oyster Reef Restoration	Richard Thomas Promoting Sustainable Land Management Through a Robust Science / Policy Dialogue	
2:35pm-2:55pm	Jeffrey Kline Developing and Demonstrating a Carbon Sequestration Performance Metric for Evaluating USDA Policies	Roger Von Haefen Using NOAA's Marine Recreational Information Program Data for Policy Analysis: Applications and Opportunities for Measuring Ecosystem Services		John Munsell Conservation Credit for Agroforestry Production (C-CAP): Balancing Agricultural Production and Nutrient Credit Trading in the Chesapeake Bay Watershed	Discussion/Q&A	Simon Willcock Continental Scale Validation of Ecosystem Service Models	Mindy Selman Water Quality Trading Markets in The Chesapeake Bay: Who Pays, Who Benefits and Why It Matters	Robert Costanza Natural Capital and Modelling	
2:55pm-3:15pm	Robert Deal USFS Perspectives on Using Ecosystem Services to Improve Agency Efficiency and Communication	Jeff Englin Travel Cost Models Using Continuous Non-Negative Distributions and Out of Sample Performance: an Application to Administrative Use Permits				Gunwoo Kim Modeling of Ecosystem Services on Green Infrastructure	Discussion/Q&A	Discussion/Q&A	
3:15-3:45pm	PM Break - Arlington Ballroom Salons 1-3								

**Tuesday, December 4, 2018**

**Concurrent Sessions - 3**

3:45pm-5:30pm	Session 17	Session 18	Session 19	Session 20	Session 21	Session 22	Session 23	Session 24
Location	Grand Ballroom Salon A	Grand Ballroom Salon B	Grand Ballroom Salon C	Grand Ballroom Salon DE	Grand Ballroom Salon FG	Grand Ballroom Salon H	Grand Ballroom Salon J	Grand Ballroom Salon K
	<b>Ecosystem Services: A Foundation for Management and Restoration on the Monongahela National Forest</b>	<b>What's the Use of Non-Use Values? Linking Ecology, Economics and Ecosystem Services to Quantify Non-Use Ecosystem Services</b>	<b>Natural Capital Approaches in the Public and Private Sector: Differences and Synergies Across Approaches and Spatial Scales</b>	<b>A Year In: Lessons Learned from a Web-based Sage-grouse Habitat Impact Calculator and Conservation Credit System</b>	<b>From Practice to Payment: Partnering with Landowners to Develop Credits for Environmental Markets</b>	<b>Planning and Enforcement Concepts to Use to Protect Cultural Ecosystem Services</b>	<b>Addressing Resilience and Adaptation in Ecosystem Services Assessment</b>	<b>Green-Gray Infrastructure in Latin America: Building the Case for Investment</b>
<b>Moderator</b>	<b>Stephanie Connolly</b>	<b>Jeffrey Kline</b>	<b>Mark Gough</b>	<b>Matt Deniston</b>	<b>Lindsay White</b>	<b>Jeffrey Thomas</b>	<b>Cary Ehrman</b>	<b>Suzanne Ozment</b>
3:45pm-3:50pm	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction
3:50pm-4:10pm	<b>Stephanie Connolly</b> Introduction of Ecosystem Services Incorporation into Land Management and Restoration on the Monongahela National Forest	<b>James Boyd</b> Non-Use Values: The Importance and Challenge of Commodity Definition	<b>PANELIST NAMES:</b> <b>Mark Gough</b> <b>Bill Rahill</b> <b>Bram Edens</b> <b>Elizabeth White</b> <b>Chris Brown</b>	<b>Eoin Doherty</b> How to Maximize Program Effectiveness Using Performance-driven Conservation Tools and Practices	<b>PANELIST NAMES:</b> <b>Dennis Carman</b> <b>Max DuBuisson</b> <b>Jessica Fox</b> <b>Robert Veldman</b>	<b>Erika Kraus</b> Cultural Ecosystem Services in Michigan, USA: Concepts and Mechanisms of Cultural Heritage, Cultural Identity, and Spirituality	<b>Gregory Biddinger</b> Relevance of Ecosystem Services and Ecological Resilience in Managing Corporate Lands	<b>Suzanne Ozment</b> Nature's Return on Investment in São Paulo's Water Supply System
4:10pm-4:30pm	<b>Pam Edwards</b> Soil Carbon – More than Just the O-horizon	<b>Robert Johnston</b> Selecting Biophysical Indicators for Economic Valuation of Non-Use Ecosystem Services	This session will take participants through the public and private approaches landscape, and will introduce several 'country cases' that the Coalition is running with IFC / World Bank Group in Rwanda, Indonesia and the Philippines at a landscape scale, which brings together elements of a public and private sector approach. Workshop Topics: 1. Exploration of the different public and private sector approaches and how they inform each other 2. How does finance (specifically within the development agenda) promote and benefit from these approaches? 3. Overview of Rwanda and Indonesia country case applications	<b>Matt Deniston</b> How Modern Day Technology is Instrumental in Ensuring Conservation Program Success	This panel will focus on the process of working with landowners to develop and market credits for participation in greenhouse gas reduction, wildlife habitat and water quality markets. Panelists will cover the landowner outreach, evaluations, and agreements that go into developing credits on working lands. Challenges and key lessons learned will be shared by four USDA NRCS Conservation Innovation Grant (CIG) recipients who have worked with private landowners to generate credits for environmental markets.	<b>David Hanson</b> Restoration Scaling of Cultural Service Injuries Using Structured Decision Support	<b>Cary Ehrman</b> A Resilience Model for the Restoration of the Rio Doce Basin, Brasil	<b>Gabriela Morales</b> Informing Investment & Policy for Urban Green-Gray Water Solutions
4:30pm-4:50pm	<b>Luanne Lohr</b> The Monongahela National Forest Pilot Gis Ecosystem Services Decision Aid	<b>Paul Ringold</b> Metrics to Represent Non-Use Values of Streams and Lakes		<b>Carolyn Sime</b> Harnessing Technology to Conserve a Wild Icon of the West: Greater Sage-grouse, the Web, and Proactive Decision Support Tools		<b>Miramanni Mishkin</b> Managing with Logic: A Rapid Assessment Using BCN Analysis and the Critical List of Variables for Sustaining the Commons	<b>William Browning</b> Thinking About Resilience in the Urban Environment	<b>David Moreno</b> What Do Investors Look for in Green Infrastructure Projects?
4:50pm-5:10pm	<b>Shane Jones</b> Mineland Restoration on the Monongahela National Forest, Randolph County, WV, USA: Something in it for Everybody	<b>Colin Phifer</b> Biophysical Metrics for Quantifying Non-Use Values: Examples from Three Ecosystem Types in the United States		<b>Kelly McGowan</b> Innovative Tools for Applying the Nevada Conservation Credit System Within the Sagebrush Ecosystem		<b>Frank Lake</b> Traditional Fire Knowledge and Cultural Burning: Human Services for Ecosystems	<b>Lucy Rummier</b> Solutions for Ecological Resiliency in Coastal City Design	<b>Denis Jordy</b> Mainstreaming Green Infrastructure Projects at The World Bank
5:10pm-5:30pm	<b>Cynthia Sandeno</b> From Restoration to Recreation: Integrating Community Voices to Develop a Landscape-Scale Vision and Economy Founded on Ecosystem Services	<b>Julie Hewitt</b> Incorporating Non-Use Values in Regulatory Decision Making		<b>Discussion/Q&amp;A</b>	<b>Discussion/Q&amp;A</b>	<b>Matthew Helmer</b> Heritage as an Ecosystem Service: Identifying Methods, Benefits, and Challenges of Integrating Cultural Resource Management into Ecosystem Services	<b>Richard Baldwin</b> An Intersection and Opportunity: Enhancing Community Climate Adaptation and Ecosystem Services	<b>Panel Discussion</b> Strengthening the Business Case for Green-gray Infrastructure Investments
<b>Tuesday Evening Town Hall Meetings</b>								
5:45pm - 6:45pm	<b>How Do We Achieve an Integrated Approach to Valuation?</b>				<b>Conservation Innovation Grants: Over a Decade of Supporting Environmental Markets Development—Where Do We Go from Here?</b>			
<b>Location</b>	<b>Grand Ballroom Salon FG</b>				<b>Grand Ballroom Salon H</b>			
<b>Organizer</b>	<b>Doug MacNair</b>				<b>Kari Cohen</b>			
5:45pm-5:50pm	<b>Introduction</b>				<b>Introduction</b>			
5:50pm-6:45pm	<b>Town Hall Discussion</b>				<b>Town Hall Discussion</b>			
7:00pm-8:30pm	<b>Finance Reception - Jefferson Meeting Room - Lobby Level</b>							

Wednesday, December 5, 2018	
7:30am-5:30pm	Conference Registration Open - <i>Skyview Terrace</i>
7:30am-8:30am	<b>Morning Refreshments</b> - <i>Arlington Ballroom Salons 1-3</i>
8:30am-9:45am	<b>Plenary Session 2</b> - <i>Arlington Ballroom Salons 4-6</i>
	<p><b><u>Plenary Session</u></b></p> <p><b>Ecosystem Services and Resilience to Natural Hazards</b></p> <p><b>Moderator:</b> Carter Ingram, Senior Manager for Climate Change and Sustainability Services, Ernst and Young</p> <p><b><u>Panel Members</u></b></p> <p><b>Dan Jiron</b>, U.S. Forest Service</p> <p><b>Marianne Fay</b>, Chief Economist, Climate Change Group, The World Bank</p> <p><b><u>Plenary Description</u></b></p> <p>This plenary session will explore the effects of natural hazards including drought, fire, and major storm events, and how the use of ecosystem service concepts can help inform resilience and decision making.</p>
9:45am-10:15am	<b>AM Break - <i>Arlington Ballroom Salons 1-3</i></b>

Concurrent Sessions - 4										
10:15am-12:00pm	Session 25	Session 26	Session 27	Session 28	Session 29	Session 30	Session 31	Session 32		
Location	Grand Ballroom Salon A	Grand Ballroom Salon B	Grand Ballroom Salon C	Grand Ballroom Salon DE	Grand Ballroom Salon FG	Grand Ballroom Salon H	Grand Ballroom Salon J	Grand Ballroom Salon K		
	<b>Decision Making and Decision Support</b>	<b>Building Capacity to Identify and Value Ecosystem Services</b>	<b>Pay for Success for Working Forest and Agricultural Lands: Key Roles in Transactions and Market Development</b>	<b>Water Markets</b>	<b>Indigenous Science and Ecosystem Services and the Future of the Planet</b>	<b>Incorporating the Multi-Benefits of Ecosystem Services into Better Land-Use, Management and Investment Decision Across the Pacific Northwest</b>	<b>Coastal and Marine Applications</b>	<b>Applications of Ecosystem Service Frameworks</b>		
<b>Moderator</b>	<b>Rudy Schuster</b>	<b>Frank Casey</b>	<b>Tommie Herbert</b>	<b>Ellie Brown</b>	<b>Jonathan Waterhouse</b>	<b>Tracy Stanton</b>	<b>Chanda Littles</b>	<b>Shonte Jenkins</b>		
10:15am-10:20am	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction		
10:20am-10:40am	<b>Simone Maynard</b> National Policy Uptake and Implementation of Nature - Human Well-Being Concepts in Africa, Asia-Pacific, Europe, and the Americas	<b>Lydia Olander</b> Building Ecosystem Services Conceptual Models for Federal Decision-Making	<b>PANELIST NAMES:</b> <b>Carolyn Dupont</b> <b>Jeremy Sokulsky</b> <b>Kari Cohen</b> <b>George Kelly</b> <b>Todd Gartner</b>	<b>Todd BenDor</b> Predicting the Existence and Performance of US Water Quality Trading Programs	<b>PANELIST NAMES:</b> <b>Mary Marshall</b> <b>Amchat Edwards</b> <b>Aaron Dana</b> <b>Todd Woodard</b>	<b>Lara Miller</b> Putting Health on the Map	<b>Doug Lipton</b> Marine Ecosystem Service Values and Valuation in the U.S.	<b>Shannon Herd-Hoare</b> The Relative Roles of Ecosystem Services and Disservices in Rural Livelihoods Along a Biodiversity Gradient, South Africa		
10:40am-11:00am	<b>Charles Rhodes and John Finisdore</b> Improving Corporate Performance with Final Ecosystem Services	<b>Stephen Polasky</b> Guidance on Measuring the Values of Ecosystem Services: Monetary and Non-Monetary Approaches		<b>Bruce Roll</b> Water Quality Trading: A Catalyst for Landscape Conservation in Urban and Agricultural Communities		In this session, Indigenous representatives will bring alive the value of Indigenous Science for the audience. The panel will discuss Indigenous Science in relation to ecosystem services and how contemporary science and Indigenous Science shouldn't be viewed as in conflict, but are actually complimentary.	<b>Kathleen Wolf</b> Green Infrastructure Planning and Design for Human Health Co-Benefits	<b>George Gardner</b> The Cost of Ensuring Salt Marsh Migration Under Sea Level Rise: Using a Property Value Model to Inform Ecosystem Service Conservation	<b>Xi Jiao</b> Quantifying Household Reliance on Ecosystem Service Derived Income in the Greater Serengeti-Mara Ecosystem	
11:00am-11:20am	<b>Rudy Schuster</b> Gap Analysis of Ecosystem Services at the Department of the Interior	<b>David Ervin</b> Principles to Guide Comprehensive Ecosystem Service Valuation: Insights from the Great Dismal Swamp and Hurricane Sandy Restoration		Pay for Success (PFS) is an innovative approach to contracting that links a meaningful portion of payment for services to measurable outcomes. In this panel session, PFS experts and practitioners will explore and discuss these roles and how each is needed for PFS transactions to work.  <b>Discussion/Q&amp;A</b>		<b>Mohammadreza Jabehdari</b> Investigate the Efficiency of Best Management Practices for Capturing Stormwater Using System Analysis - Case Study; District of Columbia	<b>Discussion/Q&amp;A</b>	<b>Jan Cassin</b> Water, Ecosystems, and Health: Capturing the Multiple Benefits of Natural Infrastructure	<b>Chanda Littles</b> Assessing Recreational Final Ecosystem Goods and Services (FEGS) Supported by Tampa Bay, FL Coastal Habitat Features	<b>Lakmini Senadheera</b> Valuing Livelihood and Ecosystem Benefits of Rainforest Reforestation for Climate Change Mitigation: A Success Story of Hiniduma Bio-Link in Sri Lanka
11:20am-11:40am	<b>Kenneth Boykin</b> Applying Biodiversity Metrics Within an Ecosystem Services Framework to a Habitat Conservation Plan: A Case Study in Partner Engagement	<b>Panel:</b> <b>Jeffrey Kline</b> <b>Emily Pindilli</b> <b>Peter Wiley</b>				<b>Barbara Wyse</b> Incentivizing Conservation Practices in Agriculture: Decision Support Tools and Payments for In-Lieu Recharge		<b>Nikola Smith</b> U.S. Forest Service: Innovative Financing for Watershed Conservation	<b>Anna Phelan</b> Ecosystem-Based Business Development for Low-Resource Coastal Communities	<b>Discussion/Q&amp;A</b>
11:40am-12:00pm	<b>Joshua Morse</b> Natural Resource Policymakers' Understanding and Applications of Cultural Ecosystem Services	<b>Discussion/Q&amp;A</b>	<b>Sarah Heard</b> The Sustainable Groundwater Management Act's First Groundwater Market	<b>Brent Davies</b> Tradeoffs In Timber, Carbon, and Cash Flow Under Alternative Management Systems for Douglas-Fir in the Pacific Northwest	<b>Anthony Dvaskas</b> Developing Natural Capital Accounts for the Coastal and Marine Context: Lessons Learned from Pilot Applications	<b>Navchaa Tugjamba</b> Nomadic Herders' Traditional Knowledge of Ecosystem Services				
12:00pm-1:30pm	<b>Lunch Provided</b>									
12:15pm-1:15pm	<b>Wednesday Lunch Town Hall Meetings</b>									
	<b>Ecosystem Services and/or Nature's Contribution to People?</b>				<b>Increasing Opportunities for Private Investment on Public Land</b>					
<b>Location</b>	<b>Grand Ballroom Salon FG</b>				<b>Grand Ballroom Salon H</b>					
<b>Organizer</b>	<b>Stephen Polasky</b>				<b>Chris Hartley</b>					
12:15pm-12:20pm	<b>Introduction</b>				<b>Introduction</b>					
12:20pm-1:15pm	<b>Town Hall Discussion</b>				<b>Town Hall Discussion</b>					

Wednesday, December 5, 2018

Concurrent Sessions - 5

1:30pm-3:15pm	Session 33	Session 34	Session 35	Session 36	Session 37	Session 38	Session 39	Session 40
Location	Grand Ballroom Salon A	Grand Ballroom Salon B	Grand Ballroom Salon C	Grand Ballroom Salon DE	Grand Ballroom Salon FG	Grand Ballroom Salon H	Grand Ballroom Salon J	Grand Ballroom Salon K
	<b>Opportunities to Create, Report, and Use Natural Capital Accounts</b>	<b>Valuation of Ecosystem Services from Federal Wilderness and Public Lands</b>	<b>Engaging the Public in Ecosystem Services Through Open Innovation</b>	<b>What Ever Happened to Demand for Water Quality Trading?</b>	<b>First Foods: How a Dedication to First Foods by Tribal Nations of the Pacific Northwest Supports Health and Cultural Connection</b>	<b>Quantifying the Health Benefits of Nature, Part 1</b>	<b>PES Successes and Challenges</b>	<b>Governance and Engagement</b>
<b>Moderator</b>	<b>Stephen Posner</b>	<b>Michael Hand</b>	<b>Sophia Liu</b>	<b>Kristiana Teige Witherill</b>	<b>Monique Fordham</b>	<b>Mark Meyer</b>	<b>Mustapha Alhassan</b>	<b>Ione Taylor</b>
1:30pm-1:35pm	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction
1:35pm-1:55pm	<b>Charles Rhodes</b> Introduction to Natural Capital Accounting	<b>Thomas Holmes</b> Wilderness and Amenity Migration	<b>PANELIST NAMES:</b> <b>Jake Weltzin</b> <b>Nathaniel Hitt</b> <b>Michelle Tamez</b> <b>Cassie Hoffman</b>  This panel session is intended	<b>Melissa Gallant</b> Lessons Learned on Demand Dynamics of Ecosystem Markets in the United States	<b>PANELIST NAMES:</b> <b>Steven Bond-Hikatubbi</b> <b>Elaine Harvey</b>  This session will present the views of two representatives of Pacific Northwest Native Nations deeply involved in the work to protect these food sources and support their sacred role within their respective communities...and beyond.	<b>Discussion/Q&amp;A</b>	<b>Aaron Lien</b> A New Approach to Evaluating the Effect of PES Program Design on Outcomes	<b>Ameline Vallet</b> Power Asymmetries in Ecosystem Services Governance: Insights from Social Network Analysis
1:55pm-2:15pm	<b>Carl Shapiro</b> Land and Water Accounts: Setting the Stage for Ecosystem Service Trend Analysis	<b>Chris Huber</b> An Economic Perspective on Wilderness Areas and Water Resources	to expose the ecosystem services community to emerging open innovation efforts in natural resource management using crowdsourcing, citizen science, and civic hacking techniques to understand the variety of ways people use and value the natural environment. The panel will discuss how open innovation can enable the identification, measurement, and analysis of ecosystem services; when it is appropriate and	<b>Melissa Gallant</b> Geography of Demand: Assessing Potential Demand for Water Quality Trading/Nonpoint Source Water Quality Improvements in the United States	<b>Discussion/Q&amp;A</b>	<b>Michael Welton</b> Impact of Hurricanes Irma and Maria on Puerto Rico Maternal and Child Health Research Programs and Strategies for Future	<b>Daniel Scognamillo</b> Variables Associated with (Environmentally) Successful Payments for Ecosystem Services Programs	<b>Pierre Glynn</b> Integrating "Records of Engagement" with Ecosystem Services
2:15pm-2:35pm	<b>Katie Warnell</b> Incorporating Ecosystem Services into Natural Capital Accounting: Framework and Applications in the Southeastern U.S.	<b>Michael Hand</b> There's Carbon in Them There Wilderness Areas	inappropriate to engage the public; and the opportunities and challenges when engaging the public.	<b>David Primozich</b> Utility Decision Making and Market-Based Approaches to Regulatory Compliance	<b>Discussion/Q&amp;A</b>	<b>Mark Myer</b> Ecosystem Services and Spatiotemporal Mosquito-Borne Disease Modeling Across a Gradient of Urbanization	<b>Richard Pritzlaff</b> A Study of Successful Community-Based Payment for Ecosystem Services Programs	<b>Tracy Stanton</b> Using a Multi-Benefit Ecosystem Services Approach to Protect Open Space in Central Puget Sound
2:35pm-2:55pm	<b>Mehdi Heris</b> Next Steps and Scaling Up Ecosystem Accounts to the Nation	<b>Jeff Englin</b> Long-Term Evolution of Wilderness Recreation Values	<b>Discussion/Q&amp;A</b>	<b>Kristiana Teige Witherill</b> Breaking Down Barriers: Priority Actions for Advancing Water Quality Trading	<b>Discussion/Q&amp;A</b>	<b>Wei-Lun Tsai</b> Measuring the Influence of Residential Exposure to Natural Environments on Mental Health and Well-Being	<b>Julie Carl Ureta</b> PES Beyond Economics: An Analysis of Lessons Learned from Establishing PES Mechanisms in the Philippines	<b>Antonija Bogadi</b> Detecting Influential Actors for Ecological Knowledge Utilization in Urban Governance Networks
2:55pm-3:15pm	<b>Stephen Posner</b> Applications and Opportunities of Natural Capital Accounting for Decision Making	<b>Margaret Walls</b> Local Economic Impacts of Federal Protected Lands		<b>Discussion/Q&amp;A</b>	<b>Discussion/Q&amp;A</b>	<b>Ida Kubiszewski</b> Measuring Well-Being at Different Spatial Scales for Individuals Satisfied and Dissatisfied with Life	<b>Katherine Brownson</b> Human Well-Being Implications of Payments for Ecosystem Services	<b>Discussion/Q&amp;A</b>
3:15pm-3:45pm	<b>PM Break - Arlington Ballroom Salons 1-3</b>							

Wednesday, December 5, 2018								
Concurrent Sessions - 6								
	Session 41	Session 42	Session 43	Session 44	Session 45	Session 46	Session 47	Session 48
Location	Grand Ballroom Salon A	Grand Ballroom Salon B	Grand Ballroom Salon C	Grand Ballroom Salon DE	Grand Ballroom Salon FG	Grand Ballroom Salon H	Grand Ballroom Salon J	Grand Ballroom Salon K
3:45pm-5:30pm	<b>Ecosystem Services in Socioeconomic Impact Assessment: One strategy or THE Framework?</b>	<b>Valuation: Applied</b>	<b>Getting to Why Ecosystem Services Matter Before Your Audience Gets to ZZZZ</b>	<b>Freshwater Wetland Restoration Effects on Flood Risk: What Do We Know?</b>	<b>Quantifying Conservation: New Financial and Technology Solutions to Measure and Scale Conservation Investment</b>	<b>Quantifying the Health Benefits of Nature, Part 2</b>		<b>Law and Ecosystem Services: Progress Made, but Still Far to Go</b>
<b>Moderator</b>	<b>Gretchen Greene</b>	<b>David Ervin</b>	<b>Christopher Hartley</b>	<b>Lisa Wainger</b>	<b>Carolyn duPont</b>	<b>Mark Meyer</b>		<b>JB Ruhl</b>
3:45pm-3:50pm	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction		Introduction
3:50pm-4:10pm	<b>Rebecca Moore</b> Socioeconomic Aspects of NEPA Analysis at the BLM: Integrating Ecosystem Services into a Larger Story	<b>Emily Pindilli</b> Estimating Societal Benefits of Carbon Dioxide Sequestration Through Peatland Restoration	PANELIST NAMES: <b>Jessica Fox</b> <b>Erica Goldman</b> <b>Sarah Ryker</b> <b>Lydia Olander</b>	<b>Andrew Kadykalo</b> Predicting Freshwater Flow Functions of Wetlands and Possible Implications for Wetland Valuation	PANELIST NAMES: <b>Jeff Allenby</b> <b>David Primozich</b> <b>Marshall Moutenot</b> <b>Margaret Bowman</b>	<b>Ferdouz Cochran</b> An Eco-Health Index from EnviroAtlas Community Metrics		<b>William Connelly</b> Ecosystem Services in Forest Service Land Management Planning
4:10pm-4:30pm	<b>Greg Reub</b> Ecosystem Services in Environmental Assessments - National Environmental Policy Act (NEPA) vs. International Standards	<b>Collin Lawrence</b> Valuation of the Flood Attenuation Ecosystem Service in Difficult Run, VA, USA	This panel will focus on recent efforts to improve communication about ecosystem services, including the incorporation of ecosystem services into curriculum, policy, and practice. Panelists will share their experiences and	<b>Karen Prestegaard</b> Quantification of Flood Attenuation Due to Natural Floodplain Morphology and Wetlands		<b>Wei-Lun Tsai</b> Greenery Along Neighborhood Roads is Linked to BMI and Physical Activity Across Four Diverse Communities		<b>Carol Jones</b> Ecosystem Services in Natural Resource Liability Claims
4:30pm-4:50pm	<b>Alicia De la Cruz-Novey</b> Ecosystem Services and International Finance Corporation Performance Standards: Example from Latin America	<b>Nikola Smith</b> Ecosystem Service Valuation of Key Watersheds in Kenya	highlight some of the lessons learned.  <b>Discussion/Q&amp;A</b>	<b>Kristen Hychka</b> Exploring the Relationship Between Freshwater Wetland Restoration and Flood Mitigation	take on new investments that are viewed as "risky" by allowing them to pay for outcomes, as well as to enable private ecosystem services markets and convince investors that environmental returns on investments are real. This panel highlights a number of financial and technology solutions from Quantified Ventures, The Freshwater Trust, Chesapeake Conservancy, and Upstream	<b>Paramita Sinha</b> Modeling, Mapping, and Valuing Air Temperature Effects of Urban Vegetation on Human Health		<b>Jim Salzman</b> Law and Policy of Payments for Ecosystem Services Programs
4:50pm-5:10pm	<b>Robert Deal and Nikola Smith</b> On the Frontlines: Integrating Ecosystem Services into USFS Policies and Programs from National to Local Scales	<b>Peter Morrison</b> Ecosystem Services from Endangered Species: Estimates from Canadian Data		<b>Ariana Sutton-Grier</b> Value of Wetlands to Protect Biodiversity, Reduce Disaster Impacts, and Promote Human Health		<b>Mark Buckley</b> Benefit-Cost Analysis of Water Quality Investments for Coastal California Involving Human Health and Recreation		<b>JB Ruhl</b> Ecosystem Services in the Courts
5:10pm-5:30pm	<b>Barbara Wyse</b> Ecosystem Services, Socioeconomics, and Addressing Stakeholder Concerns	<b>Tariq Aziz</b> Moving Well-Being Ahead: Value of Potential and Realized Ecosystem Services in Southern Ontario, Canada		<b>Discussion/Q&amp;A</b>	that are being developed that help maximize the effectiveness of conservation projects by bringing rigor to evaluating and learning from these projects regarding performance and impact.  <b>Discussion/Q&amp;A</b>	<b>Sara Mason</b> Sanitation for and by Nature		<b>Discussion/Q&amp;A</b>
5:45pm-7:45pm	<b>Poster Session and Reception - Arlington Ballroom Salons 1-3</b>							

Thursday, December 6, 2018								
7:30am-5:30pm	Conference Registration Open - Arlington Ballroom Foyer							
7:30am-8:30am	Morning Refreshments and Poster Removal - Arlington Ballroom Salons 1-3							
Concurrent Sessions - 7								
8:30am-10:15am	Session 49	Session 50	Session 51	Session 52	Session 53	Session 54	Session 55	Session 56
Location	Grand Ballroom Salon A	Grand Ballroom Salon B	Grand Ballroom Salon C	Grand Ballroom Salon DE	Grand Ballroom Salon FG	Grand Ballroom Salon H	Grand Ballroom Salon J	Grand Ballroom Salon K
	From Sociology to Social Media: Human Dimensions of Ecosystem Services	Valuing Natural Areas	Practice, Policy and Profit: the Business Case for Working Lands Conservation	Ecosystem Services Tools for Estuary and Coastal Management	Applying the Forest Resilience Bond	Recreational Benefits	Urban Ecosystem Services	Quantification Tools and Resources
Moderator	Fabiano Franco	Melissa Kreye	Maggie Monast	Susan Yee	Zach Knight	Peter Edwards	Anyha Phelan	Scott Chiavacci
8:30am-8:35am	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction
8:35am-8:55am	<b>Ione Taylor and Carl Taylor</b> A Baby Boomer and a Millennial Experience ACES' First Decade - "Are We There Yet?"	<b>Renata Rimsaite</b> Non-Market Valuation and Natural Areas: Advantages and Limitations	PANELIST NAMES: <b>Nicole Maness</b> <b>Kari Cohen</b> <b>Wood Turner</b> <b>Maggie Monast</b>	<b>Richard Fulford</b> Assessment of Ecosystem Services Impacts from Landscape Urbanization in the Mobile Bay Watershed	PANELIST NAMES: <b>Marcus Selig</b> <b>Willie Whittlesey</b> <b>Todd Gartner</b> <b>Tommie Herbet</b>	<b>Marcus Becker</b> Impacts of Lake Water Quality on Recreational Visitation in Alberta, Canada	<b>Barbara Wyse</b> Encouraging Green Infrastructure to Mitigate Transportation Impacts	<b>Jan Lewandrowski</b> A Life-Cycle Analysis of the Greenhouse Gas Emissions of Corn-Based Ethanol
8:55am-9:15am	<b>Joan Ureta</b> Implications of Gender Roles and Perceptions on Development of Co-Investment Scheme in Southern Philippines	<b>Damian Adams</b> Ecosystem Service Benefits Provided by Florida Wildlife: Economic and Social Values	(Re)Defining the triple bottom line for working lands in an era of uncertainty from zero to sixty: the role of impact investing in accelerating conservation on working lands translating conservation into a return on investment: perspectives from a private landowner practice, policy and profit: the business case for working lands conservation.	<b>Darryl Marois</b> Ecohydrology Modeling to Predict Effects of Environmental Change on River Inflows and Associated Ecosystem Services in Tillamook Bay, Oregon, USA	In this session, we will focus on the development of a pilot FRB to finance forest restoration treatments (in partnership with state agencies, utilities, and other stakeholders), so that private capital can be used to leverage additional agency funds through a cost sharing agreement.	<b>Benson Sherrouse</b> A Role for Social-Values Mapping in Increasing Public Access to the Chesapeake Bay Watershed	<b>Pamela Abee-Taulli</b> Functional Green: An Ecosystem Service Performance Metric for Landscape Regulation	<b>Stephanie Tomscha</b> Celebrating ES Gains from Wetland Restoration Using Participatory Mapping the High-Resolution ES Models
9:15am-9:35am	<b>Jessica Daniel</b> Empowering Tomorrow's Decision-Makers: Enviroatlas and Ecosystem Services in the Classroom	<b>Jose Soto</b> Recreation and Conservation Values of Florida Coastal Systems: An Application of Multi-Profile Best Worst Choice	Discussion/Q&A	<b>Leah Kintner</b> Puget Sound Partnership Human Wellbeing Framework	Discussion/Q&A	<b>Darius Semmens</b> Social Context and Value-Transfer Performance for Spatial Cultural Ecosystem Service Models	<b>Su-Ting Cheng</b> Identifying Sources and Mechanisms of Particulate Matter Pollution in Urban Areas	<b>Mindy Selman</b> Nutrient Tracking Tool: Quantifying Environmental and Ecosystem Service Impacts of Agricultural Practices
9:35am-9:55am	<b>Dillon Fogarty</b> Disciplinary Bias in Ecosystem Service Assessments Threatens Environmental Outcomes	<b>Melissa Kreye</b> Social Value of Enhancing Ecosystem Services on Private Forest Lands in the Southeastern US		<b>David Martin</b> Incorporating the Social Benefits of Ecological Restoration into Planning, Decision Making, and Monitoring		<b>Baishali Bakshi</b> Climate Change, Forests, and Recreation in Minnesota	<b>Steve Kohlmann</b> Integrating Mitigation, Carbon Sequestration, and Ecosystem Services at Community-Relevant Scales	<b>Derek Van Berkel</b> EnviroAtlas' National Assessment of Cultural Ecosystem Services: Leveraging Social Media to Understand America's Most Valued Landscapes
9:55am-10:15am	<b>Virginia Matzek</b> Making Carbon Payments Work for Biodiverse Habitats: Lessons from California's Climate Investments Program	<b>Andrew Stainback</b> Ecosystem Service Valuation and the Benefits of Everglades Restoration		<b>Kathleen Williams</b> Building and Applying a Framework to Uncover Relational Values of Ecosystem Services		<b>William Rice</b> Beyond Benefits: Recreational Ecosystem Services as a Management Framework	<b>Mark Majewsky</b> Urban Forest Inventory - Data for Questions We Don't Yet Know to Ask	<b>Matthew Espie</b> Using Big Data to Support Decision-Making Around Ecosystem Services In Washington, DC
10:15am-10:45am	AM Break- Arlington Ballroom Salons 1-3							

Thursday, December 6, 2018								
Concurrent Sessions - 8								
	Session 57	Session 58	Session 59	Session 60	Session 61	Session 62	Session 63	Session 64
Location	Grand Ballroom Salon A	Grand Ballroom Salon B	Grand Ballroom Salon C	Grand Ballroom Salon DE	Grand Ballroom Salon FG	Grand Ballroom Salon H	Grand Ballroom Salon J	Grand Ballroom Salon K
	Young Ecosystem Services Specialists: Scientific Outreach and Impact Beyond Academia	Markets / Finance Mechanisms	Working Lands	Governance Barriers and Opportunities for Integrating Ecosystem Services into Estuary and Coastal Management	Tools and Classification	Remediation to Restoration	Incorporating Ecosystem Services in Urban and Landscape Planning	Saving the Soil Through Strategic Partnerships
Moderator	Andrew Kadykalo	Steve Kohlman	John Munsell	Robert McKane	Marc Russell	Tracy Stanton	Sean O'Malley Richard Wenning	Kate Zook
10:45am-10:50am	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction
10:50am-11:10am	<b>Helina Jolly</b> Examination of Adivasi Women's Perspectives on Gender Theories and Ecosystem Values Associated with Human-Forest Interactions	<b>Jennifer Egan</b> Procurement of Ecosystem Services for Municipal Regulatory Requirements: "Hidden" Investor Gems?	<b>Alex Roa</b> Using Ecosystem Services to Prioritize Riparian Area Conservation	<b>Robert McKane</b> A Science-Governance Partnership for Integrating Ecosystem Services into Puget Sound Restoration Planning	<b>Monica Dorning</b> Potential Effects of Developing Oil and Gas Resources on Ecosystems in the Williston Basin	<b>Jonathon Weier</b> Industrial Process Pond/Impoundment Closures: Business-Case Opportunities to Create Ecosystem Services	<b>Kaisa Mustajärvi</b> Ecosystem Services Mapping in Nordic Communities - Merging Urban Planning with Nature	<b>Pipa Elias</b> Improving Soil Health on Rented Farmland
11:10am-11:30am	<b>Diana Hackenburg</b> Cultural Ecosystem Services, Changing Environments, and the Communication of Science	<b>Marlen Krause</b> The Intention of Companies to Invest in Biodiversity and Ecosystem Services Through an Online-Marketplace in Germany	<b>Sarah Pogue</b> Assessing Ecosystem Service Sustainability in Livestock Production	<b>Joel Hoffman</b> Building a Science-Governance Partnership Around Ecosystem Services to Catalyze Revitalization in Great Lakes Area of Concern Communities	<b>Leila Mosleh</b> Green Infrastructure and Ecosystem Services Assessment in Urban Environment	<b>Michele Mahoney</b> Ecosystem Services: Facilitating Green Cleanups and the Beneficial Reuse of Contaminated Sites	<b>Ingrid Nilsén Boklund</b> Methods for Valuation of Ecosystem Services when Designing Blue Green Infrastructure – Case Study, Sweden	<b>Nick Goeser</b> Partnerships to Demonstrate Success in Soil Health
11:30am-11:50am	<b>Andrew Kadykalo</b> Agricultural Best Management Practices in Corn-Soybean Systems: Tradeoffs and Synergies Between Crop Yield and Ecosystem Services	<b>Matthew Espie</b> DC's Stormwater Retention Credit Trading Program: Factors Contributing to a Successful Ecosystem Services Market	<b>Saroop Sandhu</b> Effects of Long Term Management Practices on Soil Microbial Processes in Grazing Lands	<b>Leska Fore</b> Implementation Strategies: Building Scientific Knowledge into Policy and Management Decisions	<b>Scott Chiavacci</b> Database of Quantification Tools Used in Biodiversity and Habitat Markets	<b>Leander Raes</b> Using Ecosystem Services to Support Forest Landscape Restoration (FLR) Policies in Central America, Examples from El Salvador and Honduras	<b>Lars Johansson</b> Incorporating an Ecosystem Services Perspective in Planning and Urban Design as a Tool to Develop Liveable Cities	<b>Paul Tracy</b> Soil Health Research: Connecting Science and Practice
11:50am-12:10pm	<b>Pedro Clemente</b> Using Social Perceptions to Foster Ecosystem Services Operationalization	<b>Martin Szczepanik</b> Matching Sustainable Investment with Critical Ecosystem Service Needs	<b>Zachary Ancona</b> Leveraging Existing Data in the Riverine Environmental Flow Decision Support System (REFDSS) to Estimate Sediment Retention Services Provided by Freshwater Mussels in the Upper Delaware River Basin	<b>Kate Mulvaney</b> Social Acceptance and Governance Challenges of Alternative Technologies to Reduce Nitrogen on Cape Cod	<b>Morgan Carnes</b> Developing a Social Values Typology for Land-Use Change and Ecosystem Services in the Upper Missouri River Basin	<b>Lydia Olander</b> Linking Restoration Impacts to Economic, Health, and Well-Being Benefits for People in the Gulf of Mexico	<b>Derek Pelletier</b> Incorporating Ecosystem Services into Shoreline Planning: Case Studies from the Nordics	<b>Jeff Goodwin</b> Ranching with a Focus on Soil
12:10pm-12:30pm	<b>Michael Kotutwa Johnson</b> Barriers to PES Programs in Indigenous Communities: A Lesson in Land Tenure Insecurity from the Hopi Indian Reservation	<b>Tibor Vegh</b> Innovative Mechanisms for Financing Coastal Restoration	<b>Bedilu Reta</b> Integrated Assessment, Valuation and Mapping of Ecosystem Services for Sustainable Management of Natural Resources, a Case of Lake Tana Basin, Ethiopia	<b>Jerry Diamond</b> Ecosystem Goods and Services: A Framework for Integrating Designated Use Protection and Restoration Strategies Under the Clean Water Act	<b>John Finisdore and Charles Rhodes</b> Expanding the Field of ES Practitioners- 18 Benefits from Using Classification Systems	<b>Nick Miller</b> Wetlands By Design: A Watershed Approach to Wetland Restoration for People and Nature	<b>Sean O'Malley</b> Environmental Infrastructure as a Framework for City-Building	Discussion/Q&A
12:30pm-2:00pm Lunch Provided								
Thursday Lunch Town Hall Meetings								
12:45pm-1:45pm	Cultural Ecosystem Services Discussion				Creating New Opportunities for Shared Investments in Working Forest Lands			
Location	Grand Ballroom Salon FG				Grand Ballroom Salon H			
Organizer	Jeffrey Thomas				Kelley Hamrick			
12:45pm-12:50pm	Introduction				Introduction			
12:50pm-1:45pm	Town Hall Discussion				Town Hall Discussion			

Thursday, December 6, 2018

Concurrent Sessions - 9

2:00pm-3:45pm	Session 65	Session 66	Session 67	Session 68	Session 69	Session 70
Location	Grand Ballroom Salon A	Grand Ballroom Salon B	Grand Ballroom Salon J	Grand Ballroom Salon DE	Grand Ballroom Salon FG	Grand Ballroom Salon H
	Drinking Water	Ecosystem are Infrastructure	Implementation of Ecosystem Services Guidance by Federal Programs	Land Stewardship as a Basis for an Agricultural Producer Focused Ecosystem Services Market	Advance Mitigation Credits for Infrastructure Agencies Developed by Landowners in California	Land Protection
Moderator	Collin Lawrence	Belinda Griswold	Jim Boyd	Debbie Reed	Graham Chisholm	Janet Cushing
2:00pm-2:05pm	Introduction	Introduction	Introduction	Introduction	Introduction	Introduction
2:05pm-2:25pm	<b>Sahan Dissanayake</b> Ecosystem Services and Restoration of Ancient Irrigation Systems: Cascade Tank Systems in Sri Lanka	<b>Carrie Sanneman</b> A Rose by Any Other Name: How Water Utilities Invest in Ecosystem Services	PANELIST NAMES: <b>Lydia Olander</b> <b>Ann Bartuska</b> <b>Chris Hartley</b> <b>Erica Goldman</b>  In this interactive session, panelists will share diverse perspectives about the different factors that have facilitated mainstreaming of ecosystem services in policy and practice over the past decade. Discussion will include trends over time in advancing ecosystem services science and the growing demand for ecosystem services consideration from policy, management, and market sectors.	<b>Jeff Goodwin</b> Noble Land Stewardship: Science Based Solutions for Ecosystem Challenges	<b>Laura Hollender</b> California's New Experiment with Regional Conservation Investment Strategies and How Regulatory Structures Can Create Incentives to Identify and Conserve Ecosystem Services	<b>Rachel Neugarten</b> Trends in Protected Area Representation of Biodiversity and Ecosystem Services in Five Tropical Countries
2:25pm-2:45pm	<b>Wilson Cabral de Sousa Júnior</b> Analysis of Ecosystem Services in Water Supply Infrastructure in Southeastern Brazil	<b>Jessie Martin</b> Do Take It Personally: Building Public Support for Nature-Based Solutions Through Values-Based Messaging		<b>Alex Echols</b> Scaling Soil Health through Ecosystem Service Markets: A Water Perspective	<b>Chris Beale</b> How Mitigation Credit Agreements Create Incentives to Protect Ecosystem Services	<b>George Van Houtven</b> A Trade-off Analysis for Prioritizing Land Conservation in the Catawba-Wateree Basin
2:45pm-3:05pm	<b>Tom DeMeo</b> Climate Change Vulnerability Assessment of Three Large Landscapes in Kenya, with Implications for Ecosystem Services	<b>Nicole Maness</b> High Water: Flood Management as an Emerging Driver for Ecosystem Services Investment		<b>Debbie Reed</b> Scaling Soil Health Through Ecosystem Service Markets	<b>Ann Hayden</b> Mitigation Credits as a Tool to Monetize Species Values on Private Lands; Pay-For-Performance Tools in the Sacramento River Region	<b>Fabio Jose Benez-Secanho</b> Assessment of Environmental and Economic Impacts of Conservation Easements in the Upper Chattahoochee Watershed
3:05pm-3:25pm	<b>Sean Woznicki</b> Projecting the Impacts of Land Cover Change on Drinking Water Treatment	<b>Sarah Murdock</b> Policy Success Facilitating Investments in Nature	Discussion/Q&A	<b>Bruce Knight</b> The Funding Mechanism: Empowering Producers and Industry	<b>Gary Knoblock</b> Monetizing Carbon, Water Quality and Other Co-benefits	Discussion/Q&A
3:25pm-3:45pm	<b>Megan Rippy</b> Perceived Services and Disservices of Green Infrastructure	<b>Rowan Schmidt</b> Expanding Finance for Conservation of Natural Assets		Discussion/Q&A	<b>Elizabeth O'Donoghue</b> Regional Advance Mitigation Planning in the San Francisco Bay Area: <i>Implementing RAMP in the Bay Area for Ecosystem Services and Infrastructure Benefits</i>	
3:00pm-5:00pm	Exhibitor Move-Out					

3:45pm-4:15pm	<p align="center"><b>PM Break - Arlington Ballroom Salons 1-3</b>  <i>Posters must be removed by end of break</i></p>
4:15pm-5:30pm	<p align="center"><b>Closing Plenary Session - Synthesis of ACES 2018: Arlington Ballroom Salons 4-6</b></p>
	<p align="center"><b><u>Synthesis Plenary</u></b>  <b>Where Do We Go from Here?</b></p> <p align="center"><b>Moderator: Simone Maynard</b>, Ecosystem Services Thematic Group, International Union for Conservation of Nature</p> <p align="center"><b><u>Panel Members:</u></b></p> <p align="center"><b>Patrick Coady</b>, Senior Director, Seale &amp; Associates, Inc.  <b>Darius Semmens</b>, Research Physical Scientists, USGS Geosciences and Environmental Change Science Center  <b>Arianna Sutton-Grier</b>, Director of Science, The Nature Conservancy  <b>Doug MacNair</b>, Technical Director, Environmental Resource Management  <b>Jon Waterhouse</b>, Indigenous Peoples Program, Oregon Health and Science University</p> <p align="center"><b><u>Panel Description:</u></b></p> <p>Panelists in this plenary session are leaders in the ecosystem service community and served as part of the steering committee for ACES 2018. This plenary session will provide a synthesis of conference findings, lessons learned, next steps and the major idea that came forth during the ACES conference.</p>
5:30pm-7:00pm	<p align="center"><b>Closing Social: What's Next? Crazy Ideas that Just Might Work - Arlington Ballroom Salons 4-6</b></p>
7:00pm	<p align="center"><b>Conference Concludes</b></p>