

Friday, June 1, 2018

Colorado AB

INVITED SYMPOSIA

9:45 am-11:35 am

Exploring National Wetland Condition Assessment Data Applications in State, Tribal, and Federal Programs I

Chairs: *Ann Rossi, US Environmental Protection Agency; Gregg Serenbetz, US Environmental Protection Agency; Kendall Harris, Oak Ridge Institute for Science and Education*

- 9:55-10:15 am 1296 - **Where the Rubber Hits the Road: Using the Science, Tools and Data from the NWCA to Make Better Wetland and Water Resources Decisions**
Mary Anne Thiesing, US Environmental Protection Agency
- 10:15-10:35 am 1220 - **Establishing a Quantitative Definition of Reference for the USEPA's National Wetland Condition Assessment**
Mary Kentula, US Environmental Protection Agency
- 10:35-10:55 am 1024 - **Surrounding Land Cover Types as Predictors of Palustrine Wetland Vegetation Quality in Conterminous USA**
Martin Stapanian, US Geological Survey
- 10:55-11:15 am 1053 - **Using a Vegetation Multimetric Index to Determine the Condition of a Wetland Mitigation Bank**
Annie Whitley, US Environmental Protection Agency
- 11:15-11:35 am 1113 - **Using the NWCA to Evaluate the Performance of Wetland Compensatory Mitigation Projects Under the Clean Water Act: Lake Erie Basin of Ohio Case Study**
Kerryann Weaver, US Environmental Protection Agency

1:00 pm-2:30 pm

Exploring National Wetland Condition Assessment Data Applications in State, Tribal, and Federal Programs II

Chairs: *Ann Rossi, US Environmental Protection Agency; Gregg Serenbetz, US Environmental Protection Agency; Kendall Harris, Oak Ridge Institute for Science and Education*

- 1:10-1:30 pm 1097 - **A Birds-Eye View of National Wetland Condition**
Hannah Peragine, Yale School of Forestry and Environmental Studies
- 1:30-1:50 pm 1524 - **Laying the Groundwork for a Statewide Wetland Condition Assessment in New Jersey** **WITHDRAWN**
Kathleen Walz, New Jersey Department of Environmental Protection
- 1:50-2:10 pm 1487 - **Leveraging the National Wetland Condition Assessment Data for Validation of a State-Level Rapid Assessment Method**
Cara Clark, Moss Landing Marine Laboratories
- 2:10-2:30 pm 1088 - **Carbon Storage in US Wetlands**
Amanda Nahlik, US Environmental Protection Agency

3:10 pm-5:00 pm

Exploring National Wetland Condition Assessment Data Applications in State, Tribal, and Federal Programs III

Chairs: *Ann Rossi, US Environmental Protection Agency; Gregg Serenbetz, US Environmental Protection Agency; Kendall Harris, Oak Ridge Institute for Science and Education*

- 3:20-3:40 pm 1236 - **Using NWCA and RaCA to Improve Understanding of Soil Carbon and Bulk Density**
Skye Wills, Natural Resources Conservation Service
- 3:40-4:00 pm 1374 - **Exploring Relationships Between Plant Community Condition and Soil Physicochemistry at National Wetland Condition Assessment Sites in Wisconsin**
Aaron Marti, Wisconsin Department of Natural Resources
- 4:00-4:20 pm 1562 - **Exploring Wetland Soil Nutrient Ratios and Relationships with Site Characteristics**
Ann Rossi, US Environmental Protection Agency
- 4:20-4:40 pm 1112 - **Phosphorus Characterization of Wetland Soils of the Southeastern United States**
Candiss Williams, US Department of Agriculture
- 4:40-5:00 pm 1388 - **Forging a Standard Approach to Lentic Monitoring and Assessment Applying AIM Principles**
Melissa Dickard, BLM



Society of Wetland Scientists Annual Meeting #SWS2018

Wetland Science: Integrating Research, Practice, and Policy - An Exchange of Expertise

Friday, June 1, 2018

Colorado CD

INVITED SYMPOSIA

9:45 am-11:35 am

Wetland Restoration and Creation: Case Studies and Lessons Learned I

Hosted by the Wetland Restoration Section

Chairs: Ben LePage, Pacific Gas and Electric Company; Robbyn Myers, BGE Environmental

- 9:55-10:15 am 1555 - **Is There a Soil Sampling and Analysis Approach That Practitioners and Policy Makers Can Use to Improve Soil Development in Restored Wetlands? Part 1**
Andy Herb, AlpineEco
- 10:15-10:35 am 1544 - **Is There a Soil Sampling and Analysis Approach That Practitioners and Policy Makers Can Use to Improve Soil Development in Restored Wetlands? Part 2**
Andy Baldwin, University of Maryland
- 10:35-10:55 am 1312 - **Constructed Wetland Treatment Systems: Metals Removal Design for Utility Wastewater**
Katie Bland, Burns & McDonnell Engineering
- 10:55-11:15 am 1094 - **How Far Can We Go with Science as a Bridge?**
Hsiao-Wen Wang, National Cheng Kung University
- 11:15-11:35 am 1245 - **Integrating Surface Water Quality Improvements into Coastal Restoration - an Urban Retrofit Best Management Practice (BMP) Case Study**
Steve Gruber, Burns & McDonnell Engineering

1:00 pm-2:50 pm

Wetland Restoration and Creation: Case Studies and Lessons Learned II

Hosted by the Wetland Restoration Section

Chairs: Ben LePage, Pacific Gas and Electric Company; Robbyn Myers, BGE Environmental

- 1:10-1:30 pm 1160 - **Designing Constructed Wetlands to Treat Stormwater in Arkansas: Can We Attain Low Ppb Levels of Lead in the Final Effluent?**
Tim Barber, ERM
- 1:30-1:50 pm 1300 - **Incorporating Soil Functions into Wetland Restoration/Creation Projects - Lessons Across Diverse Geographic Regions and Wetland Types**
Jacob Berkowitz, US Army Corps of Engineers
- 1:50-2:10 pm 1450 - **The Elf of the Wetlands in Taiwan - Restoration of Taipei Grass Frog**
Cheng-Hsaing Liu, Taiwan Wetland Resoration Society
- 2:10-2:30 pm 1034 - **Restoring Diverse Wetland Habitats on a Previously Contaminated Site: Shpack Superfund Site Wetland Restoration**
Christina Hoffman, ERM
- 2:30-2:50 pm 1499 - **Functional Restoration of Floodplain Wetlands Impacted by Tie-Hacking in the Early 1900's in the Bighorn Mountains of Wyoming**
Richard McEldowney, Confluence Consulting, Inc.

3:10 pm-4:40 pm

Wetland Restoration and Creation: Case Studies and Lessons Learned III

Hosted by the Wetland Restoration Section

Chairs: Ben LePage, Pacific Gas and Electric Company; Robbyn Myers, BGE Environmental

- 3:20-3:40 pm 1637 - **An Experimental Fen Transplantation**
Brad Johnson, Johnson Environmental Consulting
- 3:40-4:00 pm 1225 - **Lessons Learned - Restoring Hundreds of Miles of Wetlands and Compensatory Mitigation**
Janet Nunley, Environmental Resources Management
- 4:00-4:20 pm 1660 - **Coastal Vegetative Wetland Creation Project Intermediate Marsh**
Mike Crystal, Severson Environmental Services, Inc.
- 4:20-4:40 pm 1415 - **A Case Study of the Knickerbocker Floodplain Reconnection Project: Wetland, Stream and Floodplain Restoration of Thornton Creek in an Urban Watershed**
Emily Swaim, Soundview Consultants, LLC

WITHDRAWN

Friday, June 1, 2018

Colorado G

CONTRIBUTED SESSIONS

9:55 am-11:35 am

Human Dimensions of Wetlands

- 9:55-10:15 am 1023 - **Water Security Through Revival of Traditional Sources of Water in Rural Areas of Bharatpur (Rajasthan, India)**
SatyaPrakash Mehra, Rajputana Society of Natural History
- 10:15-10:35 am 1203 - **Wetland Career Connected Learning: A Partnership Between the Washington State Department of Transportation and the Evergreen State College**
Tony Bush, Washington State Department of Transportation
- 10:35-10:55 am 1458 - **Strategies for Getting a Job in Your Field and Surviving Your First Year as a Young Wetland Scientist**
KristiLee Halpin, AlpineEco
- 10:55-11:15 am 1130 - **Case Study: Wetland and Riparian Conservation at an Urban Quarry**
Chant Eicke, EarthView Environmental, Inc.
- 11:15-11:35 am 1531 - **The Decision Framework for Louisiana's Coastal Master Plan**
Mandy Green, Coastal Protection and Restoration Authority

1:10 pm-2:30 pm

African Rivers

- 1:10-1:30 pm 1504 - **Mangrove Carbon Stocks of the Zambezi and Rufiji River Deltas**
Carl Trettin, US Forest Service
- 1:30-1:50 pm 1539 - **Climate Change Adaptation in the River Gambia Estuary: How Far Have We Come?**
Adam Ceesay, Wetlands International Africa
- 1:50-2:10 pm 1323 - **Buffer Zones - Protecting Rivers, Wetlands and Estuaries in South Africa**
Ian Bredin, Institute of Natural Resources
- 2:10-2:30 pm 1182 - **Effects of Petroleum Bunkering Activities on the Socio-Cultural and Eco-Economics of Majidun River, Ikorodu, Nigeria**
Bright Uchenna Ndimele, University of Lagos

3:20 pm-4:40 pm

Wetland Fauna

- 3:20-3:40 pm 1091 - **The Effects of Density and Predators on the Migration Patterns of Periwinkle Snails (*Littorina littorea*)**
Anjali Boyd, Eckerd College
- 3:40-4:00 pm 1278 - **Succession and Beta-Diversity Among Invertebrate Communities in Southeastern Beaver-Created Wetlands**
Bryana Bush, University of Georgia
- 4:00-4:20 pm 1604 - **Integrated Management of Coastal Habitats in an Island Setting: Implementing the Ridge-to-Reef Approach in Northeast Puerto Rico**
Antares Ramos, National Oceanic and Atmospheric Administration WITHDRAWN
- 4:20-4:40 pm 1105 - **Spatial Distribution and Habitat Use by Resident Waterbirds at Sakumo Ramsar Wetland**
Emmanuel Taye, University of Ghana WITHDRAWN



Friday, June 1, 2018

Colorado H

CONTRIBUTED SESSIONS

9:55 am-11:35 am

Wetland Vegetation/Invasive Species II

- 9:55-10:15 am 1609 - **Peatland Types of Washington State. An Approach Based on the U.S. National Vegetation Classification**
Joe Rocchio, Washington Department of Natural Resources
- 10:15-10:35 am 1264 - **Inter-Observer Error in Wetland Vegetation Surveys**
Lloyd Morrison, Missouri State University
- 10:35-10:55 am 1461 - **Searching for Indicator Species of Wetland Floristic Quality in Oklahoma**
Tommi Fouts, Northeastern State University
- 10:55-11:15 am 1611 - **Measuring Wetland Success: A Case Study in Floristic Quality**
Reid Stamer, EarthView Environmental, Inc.
- 11:15-11:35 am 1109 - **Bottomland Hardwood Tree Species Regeneration: Seedling Response to Flood Timing**
Whitney Kroschel, Louisiana State University

1:10 pm-2:50 pm

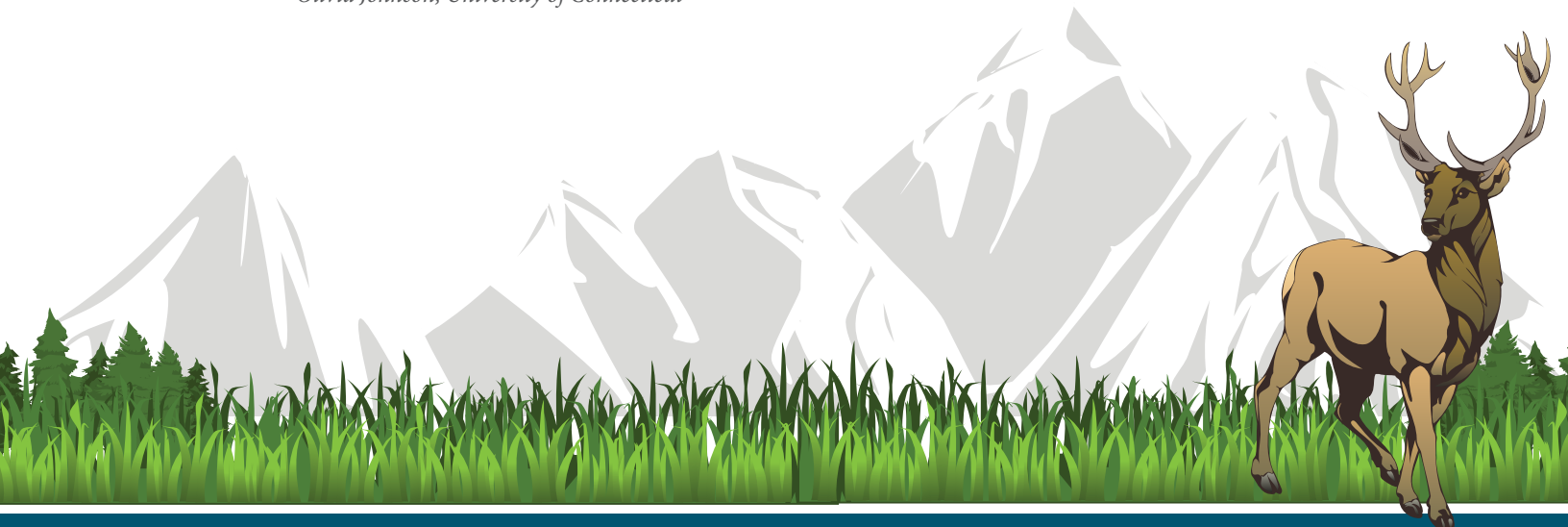
Wetland Vegetation/Invasive Species III

- 1:10-1:30 pm 1345 - **Woody Vegetation Dynamics on a Missouri River Reservoir Delta**
Catherine Beall, University of South Dakota
- 1:30-1:50 pm 1205 - **Genotypic Diversity of *Spartina alterniflora* Modulates the Response to Environmental Perturbation**
Greg Zogg, University of New England
- 1:50-2:10 pm 1630 - **Root Zone Water Movement in a Vertisol Dominated Forested Wetland: Implications for Tree Water Sources**
Mary Grace Lemon, Louisiana State University
- 2:10-2:30 pm 1589 - **Atrazine and Macrophyte Presence in Wetlands in Southwest Missouri**
Christine Cornish, Missouri State University
- 2:30-2:50 pm 1469 - **Fiddler Crab and Plant Interactions: Facilitation Is a Two-Way Street in Gulf Coast Tidal Marshes**
Gwendolyn Murphy, University of Southern Illinois

3:20 pm-4:40 pm

Wetland Vegetation/Invasive Species IV

- 3:20-3:40 pm 1452 - **Addressing Practitioner Uncertainties in Invasive Phragmites Management: A Five-Year Study of Vegetation and Seed Bank Responses to Control**
Christine Rohal, Utah State University
- 3:40-4:00 pm 1583 - **Drivers of Bird-Dispersed Exotic Plant Species in the Southeastern United States**
William Sipek, Southern Illinois University-Carbondale
- 4:00-4:20 pm 1099 - **Evaluation of the Braddock Bay Wetland Restoration Project on Lake Ontario**
Alexander Silva, The State University of New York - Brockport
- 4:20-4:40 pm 1414 - **How Does Invasive Plant Management Affect Carbon Cycling in a Great Lakes Coastal Wetland?**
Olivia Johnson, University of Connecticut



Friday, June 1, 2018

Colorado I

CONTRIBUTED SESSIONS

9:55 am-11:35 am

Ecosystem Science I

- 9:55-10:15 am 1595 - **Ecological Characterization of Peruvian High Altitude Peatlands (Bofedales) and Potential Socio-Ecological Trajectories Under Climate Change**
Denice Wardrop, Pennsylvania State University
- 10:15-10:35 am 1551 - **New Mexico Rapid Assessment Method for Playa Wetlands of the Southern High Plains**
Maryann McGraw, Surface Water Quality Bureau
- 10:35-10:55 am 1574 - **A Case Study of the Effects of Land Use Changes on Native Wetland Ecosystems in Park County, Colorado**
Esa Crumb, ERO Resources Corporation
- 10:55-11:15 am 1436 - **Comparing the Diet of an Important Wetland Resident in a Natural and Created Marsh**
Katie Robinson, University of San Diego
- 11:15-11:35 am 1043 - **Site-Specific Effects of Burrowing Crabs on Plant Community Composition in California Salt Marshes**
Janet Walker, University of California, Davis and San Diego State University

1:10 pm-2:30 pm

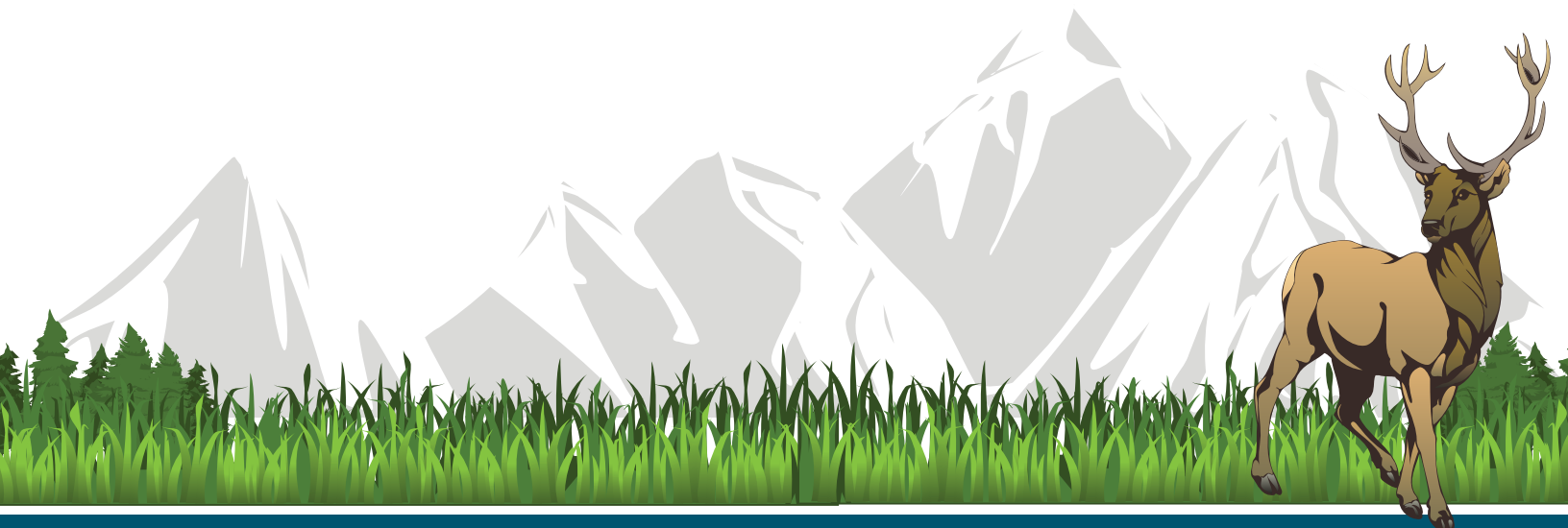
Ecosystem Science II

- 1:10-1:30 pm 1298 - **The Shrinking Lake Chad!: Urgent Need for Concerted Effort by Member Countries to Save It from Extinction**
Prince Emeka Ndimele, Lagos State University
- 1:30-1:50 pm 1372 - **Alternative Stable States in Inherently Unstable Systems: An Example from the Prairie Pothole Region of North America**
David Mushet, US Geological Survey
- 1:50-2:10 pm 1485 - **Using Interdisciplinary Sciences for the Design and Performance of the Coonamessett River Restoration**
James Turek, National Oceanic and Atmospheric Administration
- 2:10-2:30 pm 1309 - **Impacts of Road Deicing Salt on the Structure and Function of Forested Wetlands in Southern New England**
Samantha Walker, University of Connecticut

3:20 pm-4:20 pm

Ecosystem Science III

- 3:20-3:40 pm 1121 - **Multi-Element Fingerprinting to Assess Chemical Connectivity Between Prairie Pothole Wetland Soils Across North Dakota, USA**
Xiaoyan Zhu, North Dakota State University
- 3:40-4:00 pm 1468 - **Establishing New Populations of the Colorado Butterfly Plant, a Listed species Under the Endangered Species Act: Wetland Habitat Requirements**
Peter Smith, Smith Environmental and Engineering
- 4:00-4:20 pm 1610 - **Seasonal Variation Shines the Light on Microbial Community Interactions**
Pamela Weisenhorn, Argonne National Laboratory



Friday, June 1, 2018

Colorado J

CONTRIBUTED SESSIONS

9:55 am-11:35 am

Geology/Hydrology/Watersheds II

- 9:55-10:15 am 1348 - **River Channel Modification and Evolution Alters Hydraulic Connectivity with the Floodplain in the Atchafalaya River Basin**
Daniel Kroes, US Geological Survey
- 10:15-10:35 am 1628 - **Integrated Design for Integrated Systems - Combining Geomorphic and Engineering Design to Maximize Channel, Floodplain, and Wetland Functions**
Julie Ash, Otak
- 10:35-10:55 am 1037 - **Fluvial Hazard Mapping and the Connection to Protecting and Reclaiming Floodplain Wetlands**
Michael Blazewicz, Round River Design, Inc.
- 10:55-11:15 am 1080 - **Reconnecting the Floodplain to Restore Wetland Hydrology and Flood Storage: A 'Diagnose and Treat' Approach**
Judith Joyce, EarthView Environmental, Inc.
- 11:15-11:35 am 1212 - **Controls on Wetland Distribution in Southern Africa: Understanding the Role of Geomorphology**
William Ellery, Rhodes University

1:10 pm-2:30 pm

Geology/Hydrology/Watersheds III

- 1:10-1:30 pm 1352 - **A Hydrogeologic Approach to Conservation Planning for Wetlands and Their Landscapes**
Susan Sherrod, Biohabitats
- 1:30-1:50 pm 1592 - **Hydrology Characteristics of High-Altitude Andean Peatlands**
Michael Nassry, Pennsylvania State University
- 1:50-2:10 pm 1521 - **Hydraulic Conductivity in Central Andean Peatlands with Different Vegetation**
Eduardo Oyague, Universidad Nacional Agraria La Molina **WITHDRAWN**
- 2:10-2:30 pm 1254 - **The Origin of Bedrock Depression Wetlands in the Southern Cape of South Africa: A Changing Perspective**
Steven Ellery, Rhodes University

3:20 pm-4:40 pm

Geology/Hydrology/Watersheds IV

- 3:20-3:40 pm 1633 - **Morphology of Drained Upland Depressions on the Des Moines Lobe of Iowa**
Samuel McDeid, Iowa State University
- 3:40-4:00 pm 1229 - **Placing Recent Vegetation, Hydrology, and Fire Variability of Great Dismal Swamp into a Holocene Context**
Debra Willard, US Geological Survey
- 4:00-4:20 pm 1478 - **Multi-Element Fingerprinting of Waters to Assess Connectivity Among Prairie Pothole Wetlands**
Yuxiang Yuan, Northeast Institute of Geography and Agroecology
- 4:20-4:40 pm 1640 - **Intensive Timber Production in Wetlands in the Southeast United States-Data Gaps and Opportunities**
Susan-Marie Stedman, National Oceanic and Atmospheric Administration



Friday, June 1, 2018

Gold Coin

INVITED SYMPOSIA

9:45 am-11:35 am

Floating Wetlands: From Natural to Novel Ecologies I

Chairs: Mason Bowles, King County; Katharina Tondera, University of the Sunshine Coast

9:55-10:15 am 1615 - **Floating Islands: Past, Present and Future**
Wendy Davidoff, Floating Island International

10:15-10:35 am 1516 - **Advancing Benefits: Technological Evolution in Floating Wetland Approaches on Urban Waterways**
Christopher Streb, Biohabitats

10:35-10:55 am 1173 - **Floating Wetlands in the Urban Waterscape / a Case Study Review Focused on Challenges and Benefits of Floating Wetlands in the Urban Waterscape**
Galen Fulford, Biomatrix Water

10:55-11:15 am 1431 - **Creating Innovative Wetland Projects in Urban Environments**
Nick Wesely, Urban Rivers

11:15-11:35 am 1603 - **Floating Wetland Permitting Challenges and Crediting Systems**
Rob Zisette, Herrera Environmental Consultants

1:00 pm-2:50 pm

Floating Wetlands: From Natural to Novel Ecologies II

Chairs: Mason Bowles, King County; Katharina Tondera, University of the Sunshine Coast

1:10-1:30 pm 1451 - **Living Islands - Initiation of Natural Floating Wetlands for Lake Shore Development**
Henning Günther, Hochschule für Technik und Wirtschaft Dresden University of Applied Sciences

1:30-1:50 pm 1146 - **Use of Biomaterial Substrates in Floating Wetlands Design**
Mason Bowles, King County

1:50-2:10 pm 1598 - **Conservation and Restoration of Tidal Floating Wetlands of Mississippi River Delta**
Guerry Holm, Jacobs/CH2M

2:10-2:30 pm 1361 - **Regulation of Environmental Factors Controlling Denitrification Using a Floating Treatment Wetland System**
Lewis Roach, Floating Wetland Solutions

2:30-2:50 pm 1114 - **A Cost-Profit Analysis of Floating Treatment Wetlands as a Remediation Tool for Nursery and Greenhouse Effluent**
Lauren Garcia Chance, Clemson University

3:10 pm-5:00 pm

Floating Wetlands: From Natural to Novel Ecologies III

Chairs: Mason Bowles, King County; Katharina Tondera, University of the Sunshine Coast

3:20-3:40 pm 1240 - **Potential and Problems of Floating Treatment Wetlands for Mitigating Agricultural Contaminants**
Sarah White, Clemson University

3:40-4:00 pm 1258 - **Floating Treatment Wetland Influences Hydraulic Performance of a Pond Receiving Irrigation Runoff**
Natasha Bell, Clemson University

4:00-4:20 pm 1341 - **Concurrent Reduction in Phosphorus and Suspended Sediment Concentrations After Installation of a Floating Treatment Wetland**
Megan Chase, Clemson University

4:20-4:40 pm 1054 - **Modeling of Floating Treatment Wetlands**
Mark Reinsel, Apex Engineering, PLLC

4:40-5:00 pm 1209 - **The Use of Constructed Floating Wetland for Stormwater Treatment: Research Findings from South East Queensland, Australia**
Peter Schwammler, University of the Sunshine Coast



Society of Wetland Scientists Annual Meeting #SWS2018

Wetland Science: Integrating Research, Practice, and Policy - An Exchange of Expertise

Friday, June 1, 2018

Mattie Silks

INVITED SYMPOSIA

9:45 am-11:35 am

Mountain Peatlands - Perspectives From Across the Globe I

Hosted by the Peatlands Section

Chairs: Rod Chimner, Michigan Technological University; David Cooper, Colorado State University

- 9:55-10:15 am 1329 - **Carbon Stocks, Accumulation Rates, and Mapping Techniques Across Tropical Mountain Wetlands of South America**
John Hribljan, Michigan Technological University
- 10:15-10:35 am 1136 - **Mapping Fens on National Forest Lands Through Aerial Photo Interpretation**
Joanna Lemly, Colorado Natural Heritage Program
- 10:35-10:55 am 1274 - **Mapping and Carbon Accumulation of High Andean Wetlands in River-Basin Headwaters of Peru**
Walter-Martín Leyva-Molina, Centro de Competencias del Agua
- 10:55-11:15 am 1520 - **Peatlands of the Maloti Mountains, Lesotho**
Carl Trettin, US Forest Service
- 11:15-11:35 am 1652 - **General Features of the Peatlands of Tierra Del Fuego, Argentina**
Rodolfo Iturraspe, Universidad Nacional de Tierra del Fuego

1:00 pm-2:50 pm

Mountain Peatlands - Perspectives From Across the Globe II

Hosted by the Peatlands Section

Chairs: Rod Chimner, Michigan Technological University; David Cooper, Colorado State University

- 1:10-1:30 pm 1222 - **Comparison of Mountain Peatlands Carbon Cycling from the Rockies and Andes**
Rod Chimner, Michigan Technological University
- 1:30-1:50 pm 1267 - **Vegetation Patterns and Environmental Controls in High-Altitude Peatlands of the Northern Ecuadorian Andes**
Esteban Suarez, Universidad San Francisco de Quito
- 1:50-2:10 pm 1177 - **Disturbance More Than Climate or Elevation Is the Main Factor Controlling CO2 Exchange Rates in Tropical Andean Peatlands in Colombia**
Juan Benavides, Pontifical Xavierian University
- 2:10-2:30 pm 1463 - **Carbon Sequestration and Methane Emissions in a Tropical Alpine Wetland Along a Water Table Gradient**
Jorge Villa, Corporacion Universitaria Lasallita
- 2:30-2:50 pm 1272 - **Influence of Hydrology, Vegetation, and Land Use on Carbon Dynamics in Mountain Peatlands**
Dana Flett, Colorado State University

3:10 pm-5:00 pm

Mountain Peatlands - Perspectives From Across the Globe III

Hosted by the Peatlands Section

Chairs: Rod Chimner, Michigan Technological University; David Cooper, Colorado State University

- 3:20-3:40 pm 1490 - **Dynamic Beaver Pond Levels in Mountain Peatlands Provide Transient Floodwater Storage**
Cherie Westbrook, University of Saskatchewan
- 3:40-4:00 pm 1262 - **An Approximation to the Hydrology of a High-Andean Wetland Ecosystem (Bofedal) in Apurimac (Peru), Using Modeled and in-Situ Collected Data**
Jan R. Baiker, Asociación para la Conservación y el Estudio de Montañas Andinas-Amazónicas
- 4:00-4:20 pm 1221 - **Framing Climate Change and Mountain Wetlands in the Tropical Andes**
Molly Polk, University of Texas at Austin
- 4:20-4:40 pm 1525 - **Regenerative Succession of Azorean Peatlands After Disturbance as an Ecological Restoration Tool**
Candida Mendes, Centro de Clima, Meteorologia e Mudanças Globais
- 4:40-5:00 pm 1594 - **Monitoring Vegetation in Restoration Experiments in Three Andean Wetlands of Cordillera Blanca, Peru**
Beatriz Fuentealba, The Mountain Institute



Society of Wetland Scientists Annual Meeting #SWS2018

Wetland Science: Integrating Research, Practice, and Policy - An Exchange of Expertise

Friday, June 1, 2018

Independence

INVITED SYMPOSIA

9:45 am-11:35 am

Coastal Hydrologic Restoration: Informing Program Management through Monitoring

Chairs: Shannon Dionne, National Oceanic and Atmospheric Administration; Melanie Grange, National Oceanic and Atmospheric Administration; Steve Block, National Oceanic and Atmospheric Administration

- 9:55-10:15 am 1643 - **Balancing Efficiency and Effectiveness- Implementing Comprehensive Restoration Monitoring for Program-Level Evaluation**
Shannon Dionne, National Oceanic and Atmospheric Administration
- 10:15-10:35 am 1256 - **Avoiding Empty Promises: Use of Long-Term and Adaptive Monitoring to Implement an Adaptive Management Plan for a Salt Marsh Restoration Project**
Georgeann Keer, Commonwealth of Massachusetts
- 10:35-10:55 am 1155 - **Restoration Adaptive Management in Puget Sound, WA: Supporting Research, Tool Development and Communication**
Tish (Letitia) Conway-Cranos, Washington Department of Fish and Wildlife
- 10:55-11:15 am 1165 - **When You Build It, Will They Come? Assessing Fisheries Usage of Newly Restored Habitats Throughout San Francisco Bay**
Renee Spent, Ducks Unlimited
- 11:15-11:35 am 1171 - **Advancing Restoration Science Through Effectiveness Monitoring at Oregon's Largest Tidal Wetland Restoration Projects**
Laura Brophy, Estuary Technical Group Institute for Applied Ecology

1:00 pm-2:50 pm

Remote Sensing of Wet Areas in Mountainous Regions I

Chair: Nicole Jacobsen, Washington Department of Natural Resources

- 1:10-1:30 pm 1284 - **1,000 Acres: A Delineation Approach**
Kelly Thames, HDR
- 1:30-1:50 pm 1486 - **Accurately Determining Clean Water Act Permitting Jurisdiction in Challenging Montane Environments**
John Marshall, Stantec
- 1:50-2:10 pm 1474 - **A Drone's-Eye View: A New Tool for Assessing and Monitoring Marsh Wetland Condition**
Shari Clare, Fiera Biological Consulting, Ltd
- 2:10-2:30 pm 1569 - **Mapping Alaskan Wetlands in a Data Desert**
Calvin Bagley, Colorado State University
- 2:30-2:50 pm 1042 - **Identification of Potential Carbon Sinks by Combining Remote Sensing, Soil Data and Digital Soil Mapping of Wetlands**
Zamir Libohova, Natural Resources Conservation Service

3:10 pm-5:00 pm

Remote Sensing of Wet Areas in Mountainous Regions II

Chair: Nicole Jacobsen, Washington Department of Natural Resources

- 3:20-3:40 pm 1168 - **Improving Wetland Mapping in Washington**
Amy Yahnke, Washington Department of Ecology
- 3:40-4:00 pm 1601 - **A Semi-Automated, Remote Sensing Based Approach for Updating the National Wetland Inventory in Washington State**
Meghan Halabisky, University of Washington
- 4:00-4:20 pm 1462 - **Remote Sensing in Forest Management and Planning**
Nicole Jacobsen, Washington Department of Natural Resources
- 4:20-4:40 pm 1305 - **Spatial Analysis and Remote Sensing for Stakeholder Engagement in Wetland Functional Assessments: A Case Study in Applied Translational Ecology**
Andrew Robertson, Saint Mary's University of Minnesota
- 4:40-5:00 pm Panel Discussion

