

Thursday, May 31, 2018

Colorado AB

INVITED SYMPOSIA

9:45 am-11:35 am

Wetlands in a Changing Climate: Science, Policy and Management I

Chairs: Nick Davidson, Nick Davidson Environmental; William Moomaw, Tufts University; Gillian Davies, BSC Group, Inc.

9:55-10:15 am 1369 - **Future Opportunities to Incorporate Wetlands Science and Policy into Climate Solutions**
William Moomaw, Tufts University

10:15-10:35 am 1326 - **Polar Wetlands of the Past and Their Utility for Predicting the Future**
Ben LePage, Pacific Gas and Electric Company

10:35-10:55 am 1401 - **Managing Northern Peatland Carbon Stores and Fluxes with Climate and Land-Use Change**
Sue Natali, Woods Hole Rescue Group

10:55-11:15 am 1119 - **Coastal Wetlands and Climate Change: Threats, Opportunities, and Policy Recommendations**
Ariana Sutton-Grier, Nature Conservancy and University of Maryland

11:15-11:35 am 1191 - **Effects of precipitation extremes on stressed coastal vegetation**
Beth Middleton, US Geological Survey

1:00 pm-2:50 pm

Wetlands in a Changing Climate: Science, Policy and Management II

Chairs: Nick Davidson, Nick Davidson Environmental; William Moomaw, Tufts University; Gillian Davies, BSC Group, Inc.

1:10-1:30 pm 1052 - **International Wetland and Climate Policy - The Huff, Puff and Bluff and Stormy Times Ahead?**
Max Finlayson, Institute for Land, Water & Society

1:30-1:50 pm 1103 - **What's a Practicing Wetland Scientist to Do? Policy and Management Tools, Strategies and BMPs in Light of Climate Change**
Gillian Davies, BSC Group, Inc.

1:50-2:10 pm 1188 - **Restoring Coastal Wetlands: A Nature Based Solution to Cope with Sea-Level Rise and Enhance Biodiversity - A Mediterranean Example**
Patrick Grillas, Tour du Valat

2:10-2:50 pm Panel Discussion

3:10 pm-5:00 pm

Wetland and Floodplain Plant Functional Ecology: Applications for Mitigating Global Change

Chairs: Nate Hough-Snee, Meadow Run Environmental, LLC;
David Merritt, US Forest Service National Stream and Aquatic Ecology Center

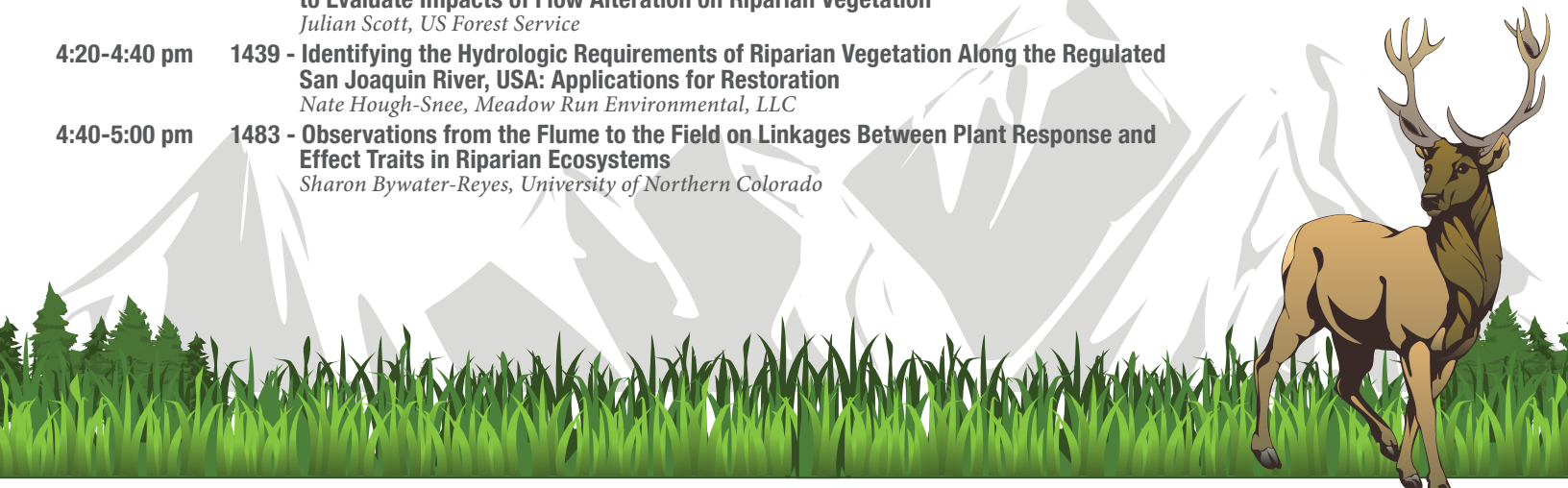
3:20-3:40 pm 1662 - **Wetland and Floodplain Plant Functional Ecology: Applications for Mitigating Global Change**
David Merritt, US Forest Service

3:40-4:00 pm 1455 - **How Will Changing Streamflow Shape Future Riparian Vegetation in Coastal California? Linking Riparian Plants to Streamflow Using Functional Guilds**
Lindsay Reynolds, US Forest Service

4:00-4:20 pm 1387 - **Riparian Flow-Response Guild Framework and Montane Streams: Guild Distribution Modeling to Evaluate Impacts of Flow Alteration on Riparian Vegetation**
Julian Scott, US Forest Service

4:20-4:40 pm 1439 - **Identifying the Hydrologic Requirements of Riparian Vegetation Along the Regulated San Joaquin River, USA: Applications for Restoration**
Nate Hough-Snee, Meadow Run Environmental, LLC

4:40-5:00 pm 1483 - **Observations from the Flume to the Field on Linkages Between Plant Response and Effect Traits in Riparian Ecosystems**
Sharon Bywater-Reyes, University of Northern Colorado



Thursday, May 31, 2018

Colorado CD

INVITED SYMPOSIA

9:45 am-11:35 am

Sustaining Wetland Science in a Time of Political Divisiveness and Scientific Skepticism: Diverse Voices, Transformative Careers, and Impactful Communication I

Hosted by the Women in Wetlands Section

Chairs: Karin Kettenring, Utah State University; Ariana Sutton-Grier, The Nature Conservancy

- 9:55-10:15 am 1350 - **A Hitchhiker's Guide to Federal Wetland Policy**
Julia McCarthy, US Environmental Protection Agency
- 10:15-10:35 am 1315 - **Moving the Needle: Affecting Policy Change at the State Level Related to Water and Wetlands in the Arid West**
Joanna Endter-Wada, Utah State University
- 10:35-10:55 am 1653 - **The Power of a Story: Exploring Communication Methods that Build Connections Between Science and Society**
Annaliese Hettinger, University of California Davis, Bodega Marine Lab
- 10:55-11:15 am 1116 - **A Wyoming Case Study: How Using Facebook for Transparent Scicomm Helped Researchers Avoid Politicizing Migration Research and Conservation**
Bethann Garramon Merkle, University of Wyoming
- 11:15-11:35 am 1270 - **The Distinction Between Advocacy vs. Science to Support Policy: Why it Matters and How to Engage**
Melissa Kenney, University of Maryland

1:00 pm-2:50 pm

Sustaining Wetland Science in a Time of Political Divisiveness and Scientific Skepticism: Diverse Voices, Transformative Careers, and Impactful Communication II

Hosted by the Women in Wetlands Section

Chairs: Karin Kettenring, Utah State University; Ariana Sutton-Grier, The Nature Conservancy

- 1:10-1:30 pm 1659 - **Troubled Waters: Restoring the River of Grass to America's Everglades**
Cara Capp, National Parks Conservation Association
- 1:30-1:50 pm 1557 - **Communication Tools: Spreading the Word About Wetlands**
Denise Culver, Colorado Natural Heritage Program
- 1:50-2:10 pm 1420 - **Shifting How We Communicate About Science: Harnessing the Power of Social Media**
Rachel Hager, Utah State University
- 2:10-2:30 pm 1047 - **Using Video to Promote Wetland Science in the Age of Fake News**
Karen McKee, US Geological Survey
- 2:30-2:50 pm Panel Discussion

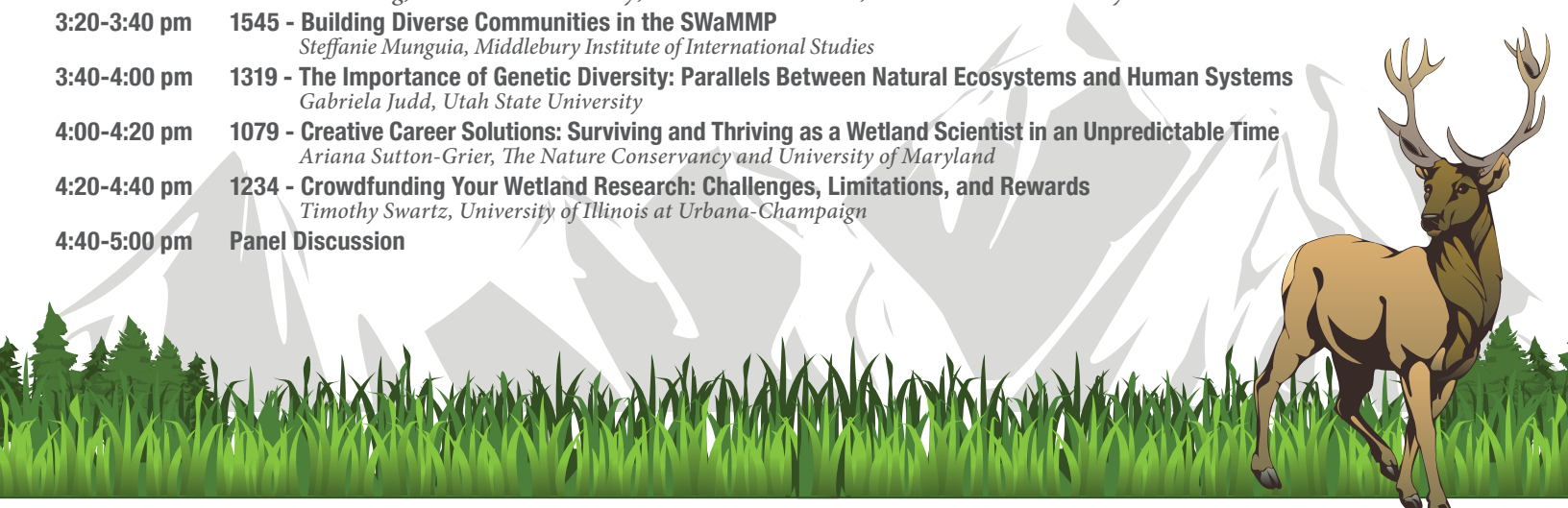
3:10 pm-5:00 pm

Sustaining Wetland Science in a Time of Political Divisiveness and Scientific Skepticism: Diverse Voices, Transformative Careers, and Impactful Communication III

Hosted by the Women in Wetlands Section

Chairs: Karin Kettenring, Utah State University; Ariana Sutton-Grier, The Nature Conservancy

- 3:20-3:40 pm 1545 - **Building Diverse Communities in the SWaMMP**
Steffanie Munguia, Middlebury Institute of International Studies
- 3:40-4:00 pm 1319 - **The Importance of Genetic Diversity: Parallels Between Natural Ecosystems and Human Systems**
Gabriela Judd, Utah State University
- 4:00-4:20 pm 1079 - **Creative Career Solutions: Surviving and Thriving as a Wetland Scientist in an Unpredictable Time**
Ariana Sutton-Grier, The Nature Conservancy and University of Maryland
- 4:20-4:40 pm 1234 - **Crowdfunding Your Wetland Research: Challenges, Limitations, and Rewards**
Timothy Swartz, University of Illinois at Urbana-Champaign
- 4:40-5:00 pm Panel Discussion



Thursday, May 31, 2018

Colorado G

INVITED SYMPOSIA

9:45 am-11:35 am

Arid Wetlands: Conservation Challenges and Research Needs I

Hosted by the Wildlife Section

Chairs: Sammy King, US Geological Survey; Adonia Henry, Scaup and Willet, LLC

- 9:55-10:15 am 1377 - **Arid Wetlands: Challenges and Opportunities**
Frederic Reid, Ducks Unlimited
- 10:15-10:35 am 1287 - **Playas and Saline Lakes - Threatened Systems of the Semi-Arid High Plains**
David Haukos, US Geological Survey
- 10:35-10:55 am 1289 - **Western Water, Wetlands, and Climate Change**
Michael Dettinger, US Geological Survey
- 10:55-11:15 am 1394 - **Innovative Approaches to Wetland Conservation in a Water-Starved Region: Klamath Basin, Oregon**
John Vradenburg, US Fish and Wildlife Service
- 11:15-11:35 am 1132 - **Hitting a Moving Target: Synchrony of Avian Migration and Wetland Pulse Dynamics in the Semi-Arid Intermountain West, USA**
Patrick Donnelly, US Fish and Wildlife Service

1:00 pm-2:50 pm

Arid Wetlands: Conservation Challenges and Research Needs II

Hosted by the Wildlife Section

Chairs: Sammy King, US Geological Survey; Adonia Henry, Scaup and Willet, LLC

- 1:10-1:30 pm 1656 - **Managing Wetlands in the West Songnen Plain of Northeast China: Challenges and Opportunities**
Hongxing Jiang, Research Institute of Forest Ecology
- 1:30-1:50 pm 1625 - **State and Transition Model for Semi-Permanently Flooded Wetlands and Shallow Lakes in the Intermountain West and Western Prairie Pothole Region**
Adonia Henry, Scaup and Willet, LLC
- 1:50-2:10 pm 1536 - **Binational Collaboration to Recover Riparian Habitats and Birds in a Drought-Stressed Basin: The Case of the Colorado River Delta**
Osvel Hinojosa-Huerta, Pronatura Noroeste
- 2:10-2:30 pm 1069 - **San Luis Valley Colorado Wetland and Wildlife Conservation Assessment**
Cary Aloia, Wetland Dynamics, LLC
- 2:30-2:50 pm 1202 - **Influence of Land Use and the Conservation Reserve Program on Native Invertebrate Pollinator Communities in the Llano Estacado**
Angie Begosh, Oklahoma State University

3:10 pm-5:00 pm

Arid Wetlands: Conservation Challenges and Research Needs III

Hosted by the Wildlife Section

Chairs: Sammy King, US Geological Survey; Adonia Henry, Scaup and Willet, LLC

- 3:20-3:40 pm 1356 - **Evaluating Abiotic Influences on Soil Salinity of Inland Managed Wetlands and Agricultural Croplands in a Semi-Arid Environment**
Drew Fowler, University of Missouri
- 3:40-4:00 pm 1392 - **Arid Wetlands: Challenges and Opportunities**
Sammy King, US Geological Survey
- 4:00-4:20 pm 1422 - **Cost of Conservation: Turning Risks into Leverage Points to Sustain an Oasis in Jordan's Desert**
Colette Linton, University of Jordan
- 4:20-4:40 pm 1624 - **Linking Wetlands, Waterbirds, and Water Policy in the Iconic Great Salt Lake Ecosystem: Challenges and Opportunities in a Heavily Impacted Landscape**
Karin Kettinger, Utah State University
- 4:40-5:00 pm 1651 - **Wetlands in the Mexican Highlands**
Alberto Lafon, PROFAUNA Mexico

Thursday, May 31, 2018

Colorado H

CONTRIBUTED SESSIONS

9:55 am-11:35 am

Monitoring & Assessment I

- 9:55-10:15 am 1380 - **Using Artificial Neural Networks to Develop a Marsh Vegetation Community Classification System in Louisiana Coastal Wetlands**
Gregg Snedden, US Geological Survey
- 10:15-10:35 am 1491 - **Validating the California Rapid Assessment Method for Depressional Wetlands**
Cara Clark, Moss Landing Marine Laboratories
- 10:35-10:55 am 1632 - **Occurrence and Characteristics of Groundwater-Dependent Wetlands on National Forests: Findings from Recent Inventories**
Kathleen Dwire, US Forest Service
- 10:55-11:15 am 1259 - **Performance of Floristic Quality Assessments in Massachusetts Forested Wetlands**
Carolyn Gorss, University of Massachusetts Amherst
- 11:15-11:35 am 1252 - **Mangrove Inventory, Ground Based Method Enhancement Trials in Florida**
Mark Brown, US Forest Service

WITHDRAWN

1:10 pm-2:50 pm

Monitoring and Assessment II

- 1:10-1:30 pm 1556 - **Synthesizing Functional Assessment Methods: Inventorying Wetland Functions in the Choptank River Watershed**
Peter Backhaus, Pennsylvania State University
- 1:30-1:50 pm 1568 - **Evaluating Assumptions of Floristic Quality Assessment (FQA) Using Empirical Data and Landscape Modeling in Massachusetts**
Scott Jackson, University of Massachusetts Amherst
- 1:50-2:10 pm 1426 - **Vegetation Diversity Responses to Environmental Watering in Iconic Wetlands of the Murray-Darling Basin over Three Contrasting Years**
Samantha Capon, Griffith University
- 2:10-2:30 pm 1166 - **Trends in Surface Elevation and Accretion Within a Retrograding Delta in Coastal Mississippi, USA**
Jonathan Pitchford, Grand Bay National Estuarine Research Reserve
- 2:30-2:50 pm 1143 - **Effects of Storage Time and Temperature on Greenhouse Gas Samples in Septum-Capped Vials**
Derek Faust, US Department of Agriculture

3:20 pm-5:00 pm

Wetland Vegetation/Invasive Species I

- 3:20-3:40 pm 1084 - **Ecological Recovery Following Large-Scale *Phragmites Australis* Control in a Lake Erie Coastal Marsh**
Rebecca Rooney, University of Waterloo
- 3:40-4:00 pm 1149 - **Effects of Soil Fertility and Flooding Regime on the Growth of *Ambrosia trifida* L.**
Hyun Jun Park, Seoul National University
- 4:00-4:20 pm 1263 - **Drivers of Invasive Plant Severity in Pennsylvania Wetlands**
Tara Mazurczyk, Pennsylvania State University
- 4:20-4:40 pm 1647 - **Invasive *Typha* spp. Facilitates Invasive European Frogbit (*Hydrocharis morsus-ranae*) in Great Lakes Coastal Wetlands**
Shane Lishawa, Loyola University Chicago
- 4:40-5:00 pm 1616 - **Comparisons on Growth and Physiological Characteristics of Native and Introduced Populations: A Common-Garden Study on *Phragmites australis***
Liujuan Xie, Qingdao Institute of Marine Geology



Thursday, May 31, 2018

Colorado I

CONTRIBUTED SESSIONS

9:55 am-11:35 am

Wetland Restoration/Creation/Mitigation IV

- 9:55-10:15 am 1108 - **Odonata Diversity in Urban Versus Natural Wetlands and the Role of Obligate Wetland Plant Species**
Mary Ann Perron, University of Ottawa
- 10:15-10:35 am 1572 - **A Meta-Analysis of Wetland Seed Banks**
Amanda McArthur, Griffith University
- 10:35-10:55 am 1027 - **The Development and Application of Uniform Hydroseres In Riparian and Wetland Restoration: Aims to Improve Design Resolution and Restoration Success**
John Giordanengo, AloTerra Restoration Services
- 10:55-11:15 am 1537 - **U.S. Highway 36, Endangered Species Act Habitat Mitigation Project: Success Through Collaboration**
Patrick Hickey, Jacobs Engineering
- 11:15-11:35 am 1288 - **Comparing Created and Natural Depressional Wetlands through Trophic Complexity of Macroinvertebrate Communities**
Shante Eisele, Wright State University

1:10 pm-2:50 pm

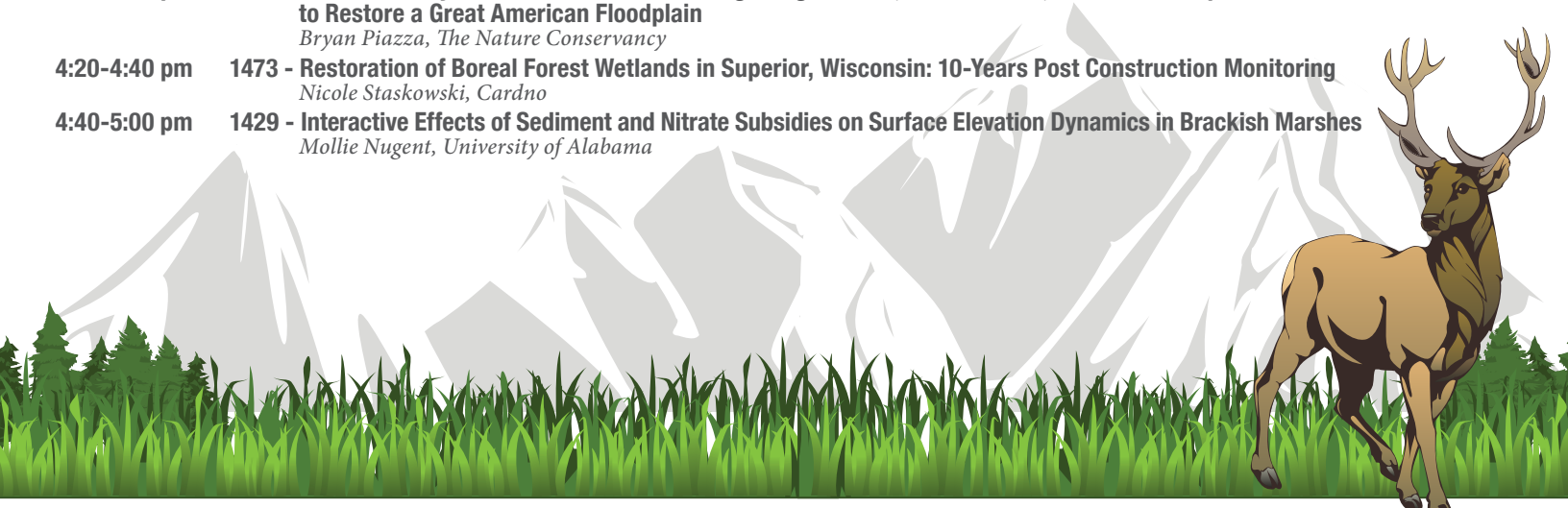
Wetland Restoration/Creation/Mitigation V

- 1:10-1:30 pm 1443 - **Restoration and Reconstruction of Typical Degraded Wetlands in Northeast China: National R & D Program Integrated Theory Technology and Demonstration**
Xianguo Lyu, Northeast Institute of Geography and Agroecology
- 1:30-1:50 pm 1444 - **Species Diversity Performance After Natural Restoration in Reclaimed Calamagrostis Angustifolia Wetland**
Xuehong Wang, Northeast Institute of Geography and Agroecology
- 1:50-2:10 pm 1510 - **Evaluating the Response of Forest Community Vegetation to Hydrologic Management in the Great Dismal Swamp in Virginia, USA**
Stephen Bendele, Christopher Newport University
- 2:10-2:30 pm 1104 - **Using Treatment Wetlands for the Purification of Salt-Laden Wastewater: Literature Review, Mesocosm-Scale Studies, and Speculation for the Future**
Hui Zhu, Northeast Institute of Geography and Agroecology
- 2:30-2:50 pm 1447 - **Lo'i as Sediment and Nutrient Retention Basins: A New Approach to Designing Constructed Wetlands in Hawai'i**
Kim Falinski, The Nature Conservancy

3:20 pm-5:00 pm

Wetland Restoration/Creation/Mitigation VI

- 3:20-3:40 pm 1602 - **Landscape Pattern Evolvement of Tussock Wetland and Main Diving Mechanism-an Example in Sun Island in Harbin**
Qing Qi, Northeast Institution of Geography and Agroecology
- 3:40-4:00 pm 1231 - **Innovative Use of SLAMM to Project Wetland Changes Due to Tidal Restoration**
Elise Leduc, Woods Hole Group
- 4:00-4:20 pm 1419 - **The Atchafalaya River Basin Initiative: Integrating Science, Conservation, and Partnerships to Restore a Great American Floodplain**
Bryan Piazza, The Nature Conservancy
- 4:20-4:40 pm 1473 - **Restoration of Boreal Forest Wetlands in Superior, Wisconsin: 10-Years Post Construction Monitoring**
Nicole Staskowski, Cardno
- 4:40-5:00 pm 1429 - **Interactive Effects of Sediment and Nitrate Subsidies on Surface Elevation Dynamics in Brackish Marshes**
Mollie Nugent, University of Alabama



Thursday, May 31, 2018

Colorado J

CONTRIBUTED SESSIONS

9:55 am-11:15 am

Biogeochemistry of Wetlands IV

- 9:55-10:15 am 1639 - **Levels and Sources of Mercury and Methylmercury Associated with Wetlands Intercepting Agricultural Drainage in Iowa**
Casey Judge, Iowa State University
- 10:15-10:35 am 1416 - **Design Considerations for Constructed Treatment Wetlands to Mitigate Nutrient and Sediment Runoff from Intensive Agriculture to Shallow Peat Lakes**
Rebecca Eivers, University of Waikato
- 10:35-10:55 am 1505 - **Water Quality and Carbon Sequestration Functional Assessment of a Created Brackish Marsh Built on Prior Converted Farmland**
Michael Burchell, North Carolina State University
- 10:55-11:15 am 1457 - **Biogeochemical Controls on Geologic Phosphate Dissolution in Humic Waters**
Sara Phelps, University of Florida

1:10 pm-2:50 pm

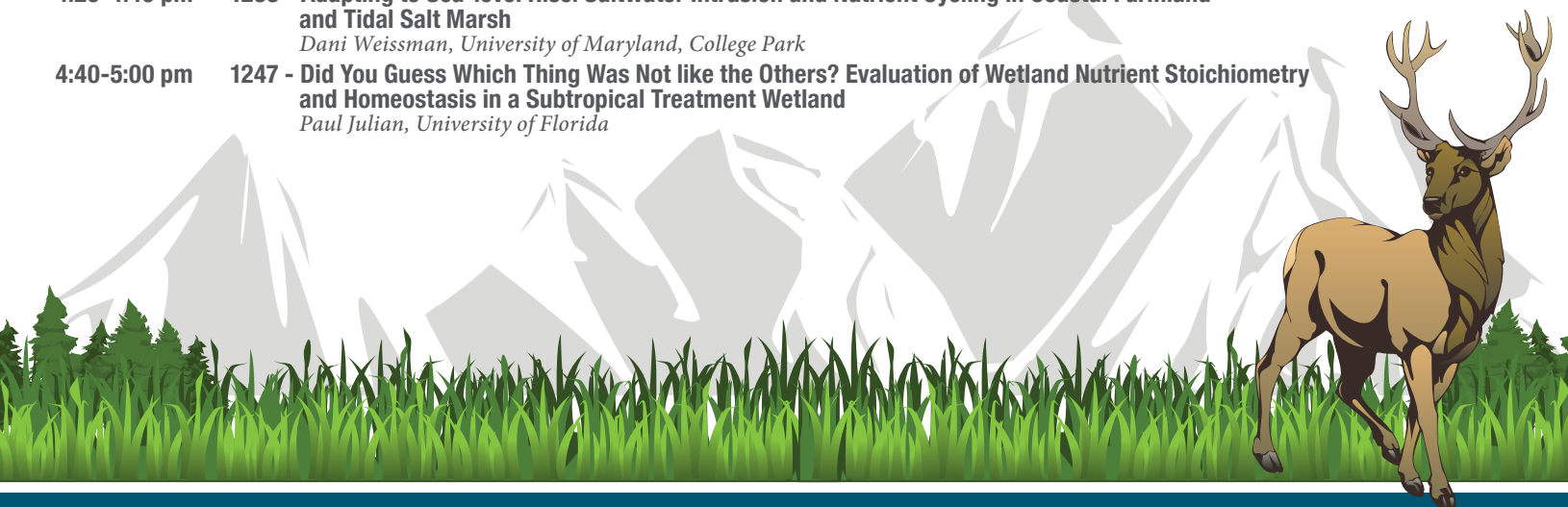
Biogeochemistry/Carbon Cycle

- 1:10-1:30 pm 1533 - **Soil Respiration and Methane Emissions in Freshwater Tidal Bottomland Forests, South Eastern USA**
Craig Allan, University of North Carolina - Charlotte
- 1:30-1:50 pm 1570 - **Production and Emission of Methane in Disturbed and Undisturbed Areas in a Peat Bog in Ohio**
Camilo Rey, The Ohio State University
- 1:50-2:10 pm 1617 - **Methane Emissions in Two Different Hydrogeomorphic Tropical Lowlands Wetlands in South America**
Julio Cesar Quevedo Jimenez, National University of Colombia
- 2:10-2:30 pm 1435 - **Assessing the Biogeochemical Impact of Storm Layer Sediments in Mangroves Affected by Hurricane Irma**
Lisa Chambers, University of Central Florida
- 2:30-2:50 pm 1144 - **Patterns of Bryophyte Diversity and Nutrient Availability in Vernal Pools Located in Central Pennsylvania, USA**
Shauna-kay Rainford, Pennsylvania State University

3:20 pm-5:00 pm

Biogeochemistry/Nutrient Cycling

- 3:20-3:40 pm 1334 - **Potential Denitrification Rates Vary with Dominant Vegetation Zones in Southern New England Coastal Salt Marshes**
Sean Khan Ooi, University of Connecticut
- 3:40-4:00 pm 1248 - **Let's Take a Ride Downstream. Translating Nutrient Spiraling Concepts to Wetland Ecosystems**
Paul Julian, University of Florida
- 4:00-4:20 pm 1645 - **Nitrogen Removal Efficiency and Greenhouse Gas Emissions in Wetlands Receiving Non-Point Source Nitrate Loads**
William Crumpton, Iowa State University
- 4:20-4:40 pm 1233 - **Adapting to Sea-level Rise: Saltwater Intrusion and Nutrient Cycling in Coastal Farmland and Tidal Salt Marsh**
Dani Weissman, University of Maryland, College Park
- 4:40-5:00 pm 1247 - **Did You Guess Which Thing Was Not like the Others? Evaluation of Wetland Nutrient Stoichiometry and Homeostasis in a Subtropical Treatment Wetland**
Paul Julian, University of Florida



Thursday, May 31, 2018

Gold Coin

INVITED SYMPOSIA

9:45 am-11:35 am

Wetlands in the Anthropocene: The Response of Coastal Wetlands to Global and Local Stressors I

Chairs: Lori Sutter, University of Georgia; Joseph Schubauer-Berigan, US Environmental Protection Agency

- 9:55-10:15 am 1137 - Utilizing Natural Coastal Wetlands for Wastewater Management: Identifying Critical Knowledge Gaps
Shawn Shifflett, US Environmental Protection Agency
- 10:15-10:35 am 1383 - Impacts of the Deepwater Horizon Oil Spill on Louisiana Salt Marshes
Mark Hester, University of Louisiana
- 10:35-10:55 am 1128 - The Tensile Root Strength of *Spartina patens*: Response to Atrazine and Nutrients
Lauris Hollis, Louisiana State University
- 10:55-11:15 am 1480 - Storm-derived Sediment Provides Elevation Capital in Otherwise Sediment-Poor Brackish Marshes
Julia Cherry, University of Alabama
- 11:15-11:35 am 1271 - Warming Accelerates Mangrove Expansion and Surface Elevation Gain in a Subtropical Wetland
Emily Geoghegan, Villanova University

1:00 pm-2:50 pm

Wetlands in the Anthropocene: The Response of Coastal Wetlands to Global and Local Stressors II

Chairs: Lori Sutter, University of Georgia; Joseph Schubauer-Berigan, US Environmental Protection Agency

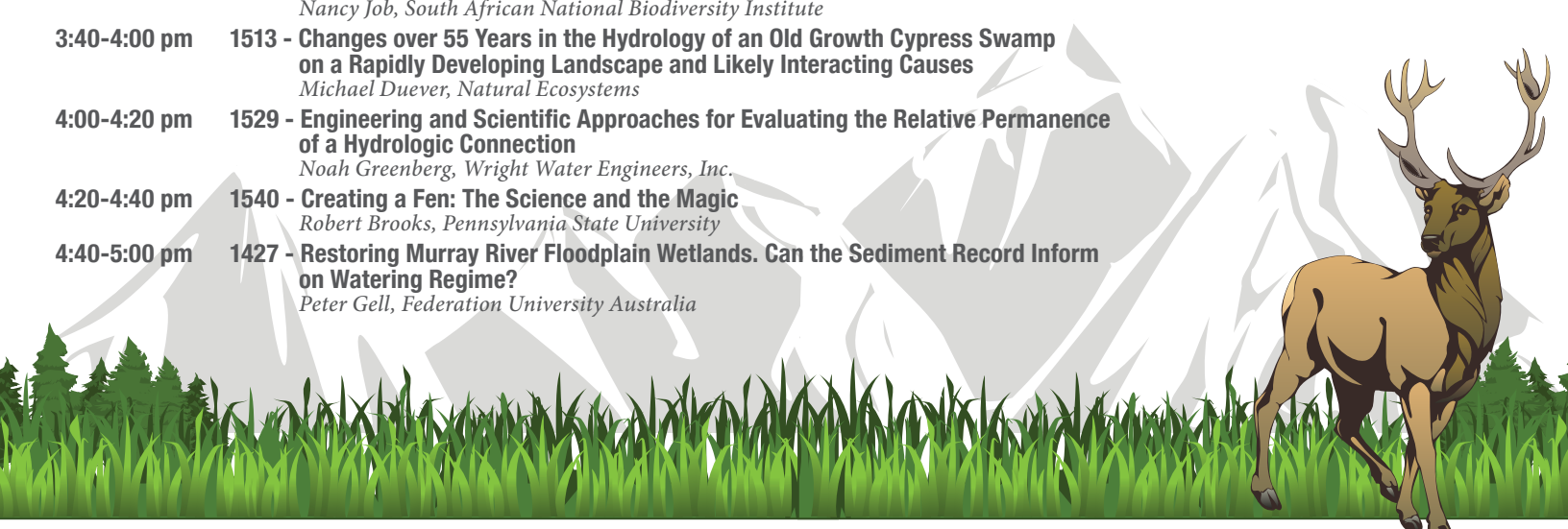
- 1:10-1:30 pm 1061 - Saltwater Intrusion Causes Vegetation Loss and Catastrophic Soil Subsidence in a Tidal Freshwater Marsh: A Field Manipulation
Christopher Craft, Indiana University
- 1:30-1:50 pm 1355 - Changes in Sediment Availability Along Upper Estuaries Create a Sediment Shadow: Consequences for Tidal Freshwater Wetland Dynamics
Greg Noe, US Geological Survey
- 1:50-2:10 pm 1578 - The Role of Physicochemical Perturbation on Denitrification and Nitrous Oxide Production
Nathaniel Weston, Villanova University
- 2:10-2:30 pm 1357 - Impacts of Vegetation Transitions on Biogeochemical Cycling Within Coastal Wetlands
Havalend Steinmuller, University of Central Florida
- 2:30-2:50 pm 1331 - Impact of Sea-Level Rise on Florida Bay During the Holocene: Implications for the Future
Miriam Jones, US Geological Survey

CONTRIBUTED SESSION

3:20 pm-5:00 pm

Geology/Hydrology/Watersheds I

- 3:20-3:40 pm 1575 - Wetlands - Pinnacles of the Hidden Half of the Hydrological Cycle
Nancy Job, South African National Biodiversity Institute
- 3:40-4:00 pm 1513 - Changes over 55 Years in the Hydrology of an Old Growth Cypress Swamp on a Rapidly Developing Landscape and Likely Interacting Causes
Michael Duever, Natural Ecosystems
- 4:00-4:20 pm 1529 - Engineering and Scientific Approaches for Evaluating the Relative Permanence of a Hydrologic Connection
Noah Greenberg, Wright Water Engineers, Inc.
- 4:20-4:40 pm 1540 - Creating a Fen: The Science and the Magic
Robert Brooks, Pennsylvania State University
- 4:40-5:00 pm 1427 - Restoring Murray River Floodplain Wetlands. Can the Sediment Record Inform on Watering Regime?
Peter Gell, Federation University Australia



Thursday, May 31, 2018

Mattie Silks

INVITED SYMPOSIA

9:45 am-11:35 am

Riparian Ecosystems I: Ecological Patterns and Effects

Chairs: Mark Dixon, University of South Dakota; Michael Scott, Utah State University; Patrick Shafroth, US Geological Society

9:55-10:15 am 1542 - **Cumulative Impact Legacies Create Novel Riparian Forests on Large, Multi-Use Rivers (Sacramento, CA and Rhône, France)**

John Stella, The State University of New York

10:15-10:35 am 1649 - **The Effects of Flooding and Dam Management on Alluvial Rivers: Evidence for an Inter-Dam Sequence and Alternative State**

Katherine Skalak, US Geological Survey

10:35-10:55 am 1405 - **Discerning Thresholds in Flooding That Are Most Closely Associated with Vegetation Zonation in River Floodplains**

Christian Marks, The Nature Conservancy

10:55-11:15 am 1307 - **Historic Floodplain Land Cover Change on the South Platte River, Colorado, USA**

Gabrielle Katz, Metropolitan State University of Denver

11:15-11:35 am 1250 - **Assessing Habitat Quality and Connectivity for Preble's Meadow Jumping Mouse in Boulder County, Colorado**

Jessica Salo, University of Northern Colorado

1:00 pm-2:50 pm

Riparian Ecosystems II: Physical and Biotic Drivers of Change

Chairs: Mark Dixon, University of South Dakota; Michael Scott, Utah State University; Patrick Shafroth, US Geological Survey

1:10-1:30 pm 1302 - **Effects of Drought on Carbon Stable-Isotope Ratios of Riparian Cottonwood Trees in the Western Great Plains**

Jonathan Friedman, US Geological Survey

1:30-1:50 pm 1559 - **Extensive Die Back and Mortality of Riparian Salicaceae Along the Bill Williams River, Arizona**

Patrick Shafroth, US Geological Survey

1:50-2:10 pm 1310 - **Riparian Cottonwood Decline and Mortality After Streamflow Diversion, Great Basin National Park**

Derek Schook, Colorado State University

2:10-2:30 pm 1235 - **The Role of a Non-Native Tree in Large-Scale Riparian Vegetation Expansion and Channel Narrowing Along a Dryland River**

Michael Scott, Utah State University

2:30-2:50 pm 1228 - **Divergent Effects of Land-Use, Propagule Pressure, and Climate on Woody Riparian Invasion - Tamarisk, Russian Olive, and Siberian Elm**

Laura Perry, Colorado State University

3:10 pm-5:00 pm

Riparian Ecosystems III: River Regulation and Restoration

Chairs: Mark Dixon, University of South Dakota; Michael Scott, Utah State University; Patrick Shafroth, US Geological Survey

3:20-3:40 pm 1283 - **Potential for Riparian Restoration on River-Reservoir Deltas in the Great Plains**

Carter Johnson, South Dakota State University

3:40-4:00 pm 1055 - **Emerging Deltas in Regulated Rivers: Contribution to Riparian Biodiversity**

Malia Volke, New Mexico Department of Game and Fish

4:00-4:20 pm 1489 - **Vegetation Dynamics Five Years After Large Dam Removal on the Elwha River, Washington**

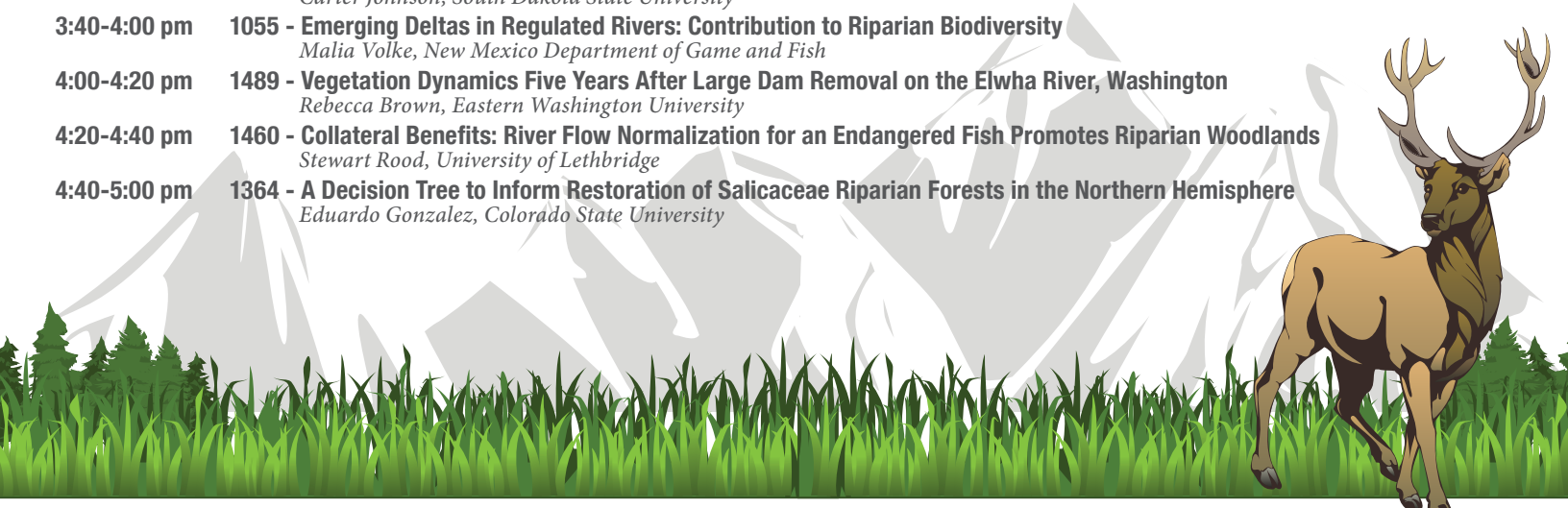
Rebecca Brown, Eastern Washington University

4:20-4:40 pm 1460 - **Collateral Benefits: River Flow Normalization for an Endangered Fish Promotes Riparian Woodlands**

Stewart Rood, University of Lethbridge

4:40-5:00 pm 1364 - **A Decision Tree to Inform Restoration of Salicaceae Riparian Forests in the Northern Hemisphere**

Eduardo Gonzalez, Colorado State University



Society of Wetland Scientists Annual Meeting #SWS2018

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

Thursday, May 31, 2018

Independence

INVITED SYMPOSIA

9:45 am-11:15 am

Environmental Change and the Wetland Sediment Archive

Hosted by the Global Change Ecology Section

Chairs: Donald Sullivan, University of Denver; Elizabeth Watson, Academy of Natural Sciences

- 9:55-10:15 am 1621 - **Reconstructing Late Quaternary Environmental Change Preserved in Western Peatlands**
Donald Sullivan, University of Denver
- 10:15-10:35 am 1558 - **Wetland Sediment Records of Agricultural Intensification from a Monterey Bay Coastal Estuary**
Elizabeth Watson, Academy of Natural Sciences
- 10:35-10:55 am 1378 - **NJ Wetlands past, Present and Future: Using Sediment Archives to Inform and Guide Wetland Protection, Restoration and Resilience**
Mihaela Enache, New Jersey Department of Environmental Protection **WITHDRAWN**
- 10:55-11:15 am 1622 - **Comparison of Organic Matter Source and Carbon Burial Rates in Tidal Salt Marshes and Seagrass Beds of Bahía San Quintín, México**
Johannes Krause, Drexel University

1:00 pm-2:50 pm

Integrating Traditional Ecological Knowledge (TEK) and Traditional Resource Management approaches in Ecological Restoration I

Chairs: Ben LePage, Pacific Gas and Electric Company; Michelle Stevens, California State University-Sacramento

- 1:10-1:30 pm 1325 - **Traditional Ecological Knowledge: A Perspective from the World of Science**
Ben LePage, Pacific Gas and Electric Company
- 1:30-1:50 pm 1115 - **Contribution of Traditional Ecological and Western Scientific Knowledge Systems in Ecol-Cultural Restoration of Mesopotamian Marshes, Iraq**
Michelle Stevens, California State University-Sacramento
- 1:50-2:10 pm 1082 - **Wetland Imagery in Fiction and Implications for Conservation**
Erik Kiviat, Hudsonia
- 2:10-2:30 pm 1159 - **National and International Considerations of Traditional Ecological Perspectives and Practices in Wetlands Protection, Wise Use, and Restoration**
Kathleen Kutschenreuter, Office of Wetlands, Oceans, and Watersheds
- 2:30-2:50 pm 1058 - **Integrating Traditional Ecological Knowledge and Wisdom into Wetland Protection, Management and Restoration in the Pacific Northwest**
Linda Storm, US Environmental Protection Agency

3:10 pm-5:00 pm

Integrating Traditional Ecological Knowledge (TEK) and Traditional Resource Management approaches in Ecological Restoration II

Chairs: Ben LePage, Pacific Gas and Electric Company; Michelle Stevens, California State University-Sacramento

- 3:20-3:40 pm 1316 - **Integrating CWA and Tribal Regulatory Programs Using Traditional Ecological Knowledge to Manage and Protect Aquatic Resources in the Rocky Mountains**
Toney Ott, US Environmental Protection Agency
- 3:40-4:00 pm 1198 - **Identification of Sustainability: Traditional Ecological Knowledge and Indigenous Science Between Hunting Culture and Restoration in Taiwan**
Wei-Ta Fang, National Taiwan Normal University
- 4:00-4:20 pm 1253 - **"They Were Our Supermarkets": Local Knowledge of Freshwater Wetlands, Values, Threats and Management in Remote Aboriginal-Owned Northern Australia**
Shaina Russell, Macquarie University **WITHDRAWN**
- 4:20-4:40 pm 1294 - **Wetland TEK in the Longue Durée: An Archaeological, Ethnohistorical, and Ethnographic Case Study from Southern Albania**
Susan Allen, University of Cincinnati
- 4:40-5:00 pm 1201 - **The Environmental Justice Movement for Stream and Fish Protection: Capabilities of the Tayal Indigenous People in Mrquan Tribe**
Kuoyung Silan Song, National Taiwan Normal University