



Tuesday, June 6, 2017

Room 201A

SYMPOSIA

9:45 am-11:35 am

Asian Wetlands and Their International Connections (I): A Sensitive Climate Resilience Perspective I

Moderators: Wei-Ta Fang, Society of Wetland Scientists Asia Chapter; Hsiao-Wen Wang, National Cheng-Kung University

- 9:55 am-10:15 am **1016 Self-organization and its resilient designs for wetland restoration**
Wei-Ta Fang, National Taiwan Normal University
- 10:15 am-10:35 am **1068 Building climate resilience through wise use of island wetlands: A case study of Taiwan**
Chang-Po Chen, Taiwan Wetland Society
- 10:35 am-10:55 am **1193 Participatory environmental planning in abandoned salt pans of western Taiwan**
Adrienne Dodd, National Cheng Kung University
- 10:55 am-11:15 am **1106 Habitat model development and application related to rising sea level effects of mangroves**
Shang-Shu Shih, National Taiwan University
- 11:15 am-11:35 am **1125 Quantifying mangrove carbon budgets in Taiwan**
Hsing-Juh Lin, National Chung Hsing University

1:00 pm-2:50 pm

Asian Wetlands and Their International Connections (I): A Sensitive Climate Resilience Perspective II

Moderators: Wei-Ta Fang, Society of Wetland Scientists Asia Chapter; Hsiao-Wen Wang, National Cheng-Kung University

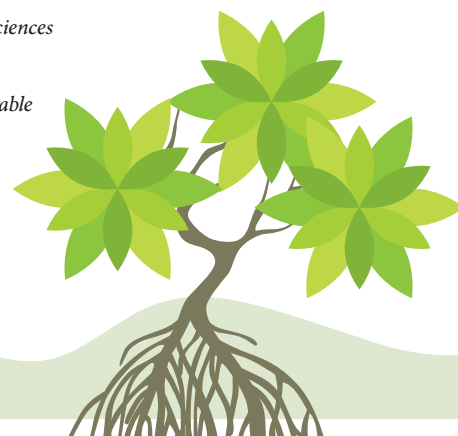
- 1:10 pm-1:30 pm **1623 Comparison analysis of blue carbon sink effects between mangrove constructed wetlands and natural wetlands**
Lei Yang, National Sun Yat-sen University
- 1:30 pm-1:50 pm **1626 Mangrove wetland management: Alien mangrove species and current distribution mangrove around Heneji Inland-Sea Wetland, Okinawa, Japan.**
Yuji Arakaki, Meio University
- 1:50 pm-2:10 pm **1441 Benthic community metabolisms of intertidal mudflats change along a latitudinal gradient**
Wei-Jen Lin, National Chung Hsing University
- 2:10 pm-2:30 pm **1364 Wetland dominant species response to the global change in Lake Xingkai basin in China**
Ming Jiang, Northeast Institute of Geography and Agroecology, CAS
- 2:30 pm-2:50 pm **1078 Multi-element fingerprinting of soils of undisturbed and restored wetlands, and paddy rice fields in the Sanjiang Plain, Heilongjiang, Northern China**
Marinus Otte, North Dakota State University

3:10 pm-5:00 pm

Asian Wetlands and Their International Connections (I): A Sensitive Climate Resilience Perspective III

Moderators: Wei-Ta Fang, Society of Wetland Scientists Asia Chapter; Hsiao-Wen Wang, National Cheng-Kung University

- 3:20 pm-3:40 pm **1249 Restoration potential of sedge meadows in hand-cultivated soybean fields in northeastern China**
Guodong Wang, Chinese Academy of Sciences
- 3:40 pm-4:00 pm **1109 Impacts of agricultural production on wetlands in Amur River Basin located in the northeastern China**
Yuanchun Zou, Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences
- 4:00 pm-4:20 pm **1376 Biodiversity restoration in riparian wetland along the downstream of the Songhua River, China**
Shouzheng Tong, Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences
- 4:20 pm-4:40 pm **1467 Status and conservation of high altitude wetlands of Indian Himalaya: A review**
Khilendra Singh Kanwal, G.B. Pant National Institute of Himalayan Environment & Sustainable Development
- 4:40 pm-5:00 pm **1215 Potential of sustainable livelihood from wetlands in Rajasthan (India)**
SatyaPrakash Mehra, Rajputana Society of Natural History





Tuesday, June 6, 2017

Room 201B

SYMPOSIA

9:45 am-11:35 am

Floodplain Restoration: How Does the Diversity of Approaches Influence Outcome? I

Moderators: Greg Noe, U.S. Geological Survey; Sara McMillan, Purdue University

- 9:55 am-10:15 am **1343 Modeling nutrient removal using watershed-scale implementation of the two-stage ditch**
Sheila Christopher, University of Notre Dame
- 10:15 am-10:35 am **1168 The effects of hydrologic reconnection on floodplain water quality functions in an agricultural watershed**
Jaimie Gillespie, U.S. Geological Survey
- 10:35 am-10:55 am **1308 Reconnection of riverine side-arms and floodplains - How connectivity affects ecosystem properties**
Thomas Hein, University of Natural Resources and Life Sciences, Vienna & WasserCluster Lunz
- 10:55 am-11:15 am **1091 Nutrient and sediment inputs and release, soil structure, and biogeochemistry in floodplains: A comparison of natural and restored/created wetlands**
Greg Noe, U.S. Geological Survey
- 11:15 am-11:35 am **1433 Nitrogen and phosphorus flux in restored riverine floodplains in intensively managed watersheds**
Sara McMillan, Purdue University

1:00 pm-1:50 pm

Floodplain Restoration: How Does the Diversity of Approaches Influence Outcome? II

Moderators: Greg Noe, U.S. Geological Survey; Sara McMillan, Purdue University

- 1:10 pm-1:30 pm **1635 Headwater restoration by fluvial biogeomorphic succession: Applications of a self-forming stream design concept in Ohio, USA**
Dan Mecklenburg, Ohio State University
- 1:30 pm-1:50 pm **1560 Restoration strategies in German floodplains: Dike re-location along the River Elbe - effects on vegetation, mollusks and invertebrates**
Mathias Scholz, UFZ - Helmholtz Centre for Environmental Research

1:50 pm-2:10 pm

Invasive Animals and Wetlands I

Moderator: Jacoby Carter, U.S. Geological Survey

- 1:50 pm-2:10 pm **1306 Some effects of feral hogs, exotic nutria, recreational hunters and management on vegetation in a low-salinity, tidal wetland**
Andy Nyman, Louisiana State University Agricultural Center

3:10 pm-5:00 pm

Invasive Animals and Wetlands II

Moderator: Jacoby Carter, U.S. Geological Survey

- 3:20 pm-3:40 pm **1074 Maculata apple snail *Pomacea maculata* impacts on aquatic vegetation of swamp forests in South Louisiana**
Jacoby Carter, U.S. Geological Survey
- 3:40 pm-4:00 pm **1169 Impact of nutria *Myocastor coypus* on wetland loss, an experiment**
Sergio Merino, U.S. Geological Survey
- 4:00 pm-4:20 pm **1288 Connections between feral hogs with freshwater ecosystems**
Michael Kaller, Louisiana State University
- 4:20 pm-4:40 pm **1076 Movement patterns of maculata apple snails *Pomacea maculata* in swamp forests of South Louisiana**
Jacoby Carter, U.S. Geological Survey
- 4:40 pm-5:00 pm **1173 Review of Louisiana's nutria *Myocastor coypus* control program**
Sergio Merino, U.S. Geological Survey





Tuesday, June 6, 2017

Room 202A

SYMPOSIA

9:45 am-11:35 am

Human-Induced Impacts on Coastal Wetlands in the Caribbean I

Moderator: Rita Teutonico, Florida International University

- 9:55 am-10:15 am 1515 **The greater Everglades ecosystem: Two decades of the thrill of victory and the agony of defeat with large-scale ecosystem restoration**
Todd Crowl, Florida International University
- 10:15 am-10:35 am 1531 **Using the Pantanal macrohabitat classification as a template for comparative studies across wetlands** WITHDRAWN
Catia Nunes da Cunha, Federal University of Mato Grosso
- 10:35 am-10:55 am 1127 **How do primary producer diversity and dominance vary in (sub) tropical wetlands?**
Luca Marazzi, Florida International University
- 10:55 am-11:15 am 1419 **Algal defenses limit secondary production and shape food web structure in caribbean karstic wetlands**
Joel Trexler, Florida International University
- 11:15 am-11:35 am 1060 **Caribbean mangroves face the Anthropocene**
Ariel Lugo, USDA Forest Service, International Institute of Tropical Forestry

1:00 pm-2:50 pm

Human-Induced Impacts on Coastal Wetlands in the Caribbean II

Moderator: Rita Teutonico, Florida International University

- 1:10 pm-1:30 pm 1237 **The ecological consequences of mangrove expansion into salt marshes: A synthesis of field studies across the Texas coast**
Anna Armitage, Texas A&M University Galveston Campus
- 1:30 pm-1:50 pm 1188 **Understanding variation in mangrove structure and function with imminent sea-level rise: A Caribbean coastal network model**
Danielle Ogurcak, Florida International University
- 1:50 pm-2:10 pm 1156 **Ten years of ecological monitoring in a coastal wetland of the Yucatan Peninsula: What have we learned** WITHDRAWN
Xavier Chiappa Carrara, UNAM
- 2:10 pm-2:30 pm 1151 **Threats to coastal freshwater 'Pterocarpus officinalis' wetlands from synergistic effects of high salinity and altered species dominance**
Tamara Heartsill, Scalley International Institute of Tropical Forestry, USDA Forest Service
- 2:30 pm-2:50 pm 1041 **Water dynamics and biodiversity in Sian Ka'an Reserve, Yucatan**
Luis Zambrano, Instituto de Biología, Universidad Nacional Autónoma de México

3:10 pm-5:00 pm

Management and Restoration of Rural Wetlands: Identifying Issues and Sharing Solutions From Europe to China

Moderators: Mathew Simpson, WWT Consulting and SWS Europe Chapter; Jinghan Zhang, Nanjing University Ecological Research Institute of Changshu; Jos Verhoeven, Utrecht University

- 3:20 pm-3:40 pm 1453 **Recognising the multiple benefits wetlands provide in a rural landscape**
Matthew Simpson, WWT Consulting
- 3:40 pm-4:00 pm 1181 **Wetland conservation in drained peat areas in The Netherlands**
Jos Verhoeven, Utrecht University
- 4:00 pm-4:20 pm 1369 **Conservation and utilization of rural wetlands - A case study of Changshu City** Yiyi Xiong, Nanjing University Ecological Research Institute of Changshu
- 4:20 pm-4:40 pm 1371 **Sanshan Island Wetland Park: A special national wetland park based on rural wetlands**
Shuqing An, Nanjing University Ecological Research Institute of Changshu 215500, Jiangsu, P.R. China
- 4:40 pm-5:00 pm 1370 **Shanghai Dalian Lake wetland restoration engineering based on community participation**
Jinghan Zhang, Nanjing University Ecological Research Institute of Changshu 215500, Jiangsu, P.R. China





Tuesday, June 6, 2017

Room 208A

SYMPOSIA

9:45 am-11:35 am

Mapping and Monitoring Wetlands Across the US to Support Strategic Management of Natural Resources I

Moderators: Megan Lang, U.S. Fish and Wildlife Service; Jennifer Rover, U.S. Geological Survey; John Jones, U.S. Geological Survey

- 9:55 am-10:15 am **1447 The National Wetland Inventory, version two: Characterizing aquatic ecosystems across the landscape**
Mitchell Bergeson, U.S. Fish and Wildlife Service
- 10:15 am-10:35 am **1164 The Coastal Change Analysis Program: Mapping coastal land cover and wetland change**
Nate Herold, NOAA Office for Coastal Management
- 10:35 am-10:55 am **1087 National assessment of spatial and temporal variations of wetland from NLCD**
George Xian, U.S. Geological Survey
- 10:55 am-11:15 am **1147 The U.S. Geological Survey Dynamic Surface Water Extent Product: Characterizing inundation variations across space and through time**
John Jones, U.S. Geological Survey
- 11:15 am-11:35 am **1027 Continuous monitoring and assessment of wetland landscapes**
Jennifer Rover, U.S. Geological Survey

1:00 pm-2:50 pm

Mapping and Monitoring Wetlands Across the U.S. to Support Strategic Management of Natural Resources II

Moderators: Megan Lang, U.S. Fish and Wildlife Service; Jennifer Rover, U.S. Geological Survey; John Jones, U.S. Geological Survey

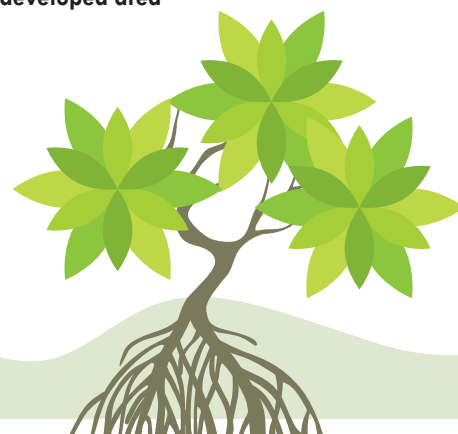
- 1:10 pm-1:30 pm **1408 The NWI Wetlands Status and Trends Project: Guiding U.S. wetland policy into the future**
Megan Lang, U.S. Fish and Wildlife Service
- 1:30 pm-1:50 pm **1064 The National Wetland Condition Assessment: Applications of data from a national-scale ecological survey of U.S. wetlands**
Gregg Serenbetz, U.S. Environmental Protection Agency
- 1:50 pm-2:10 pm **1386 The National Wetland Atlas: Harnessing the power of the Cowardin Classification System to support decision-making**
Rusty Griffin, U.S. Fish and Wildlife Service
- 2:10 pm-2:30 pm **1034 National mapping of wetland connectivity**
Scott Leibowitz, U.S. Environmental Protection Agency
- 2:30 pm-2:50 pm **1327 The importance and use of wetland geospatial data for strategic watershed planning**
Marla Stelk, Association of State Wetland Managers

3:10 pm-5:00 pm

Global Challenges to Wetland Science

Moderators: Casey Judge, Iowa State University; Karin Kettenring, Utah State University; Martha Carolson Mazur, Bellarmine University

- 3:20 pm-3:40 pm **1044 Rewards and challenges of global research: India and China**
Beth A Middleton, U.S. Geological Survey
- 3:40 pm-4:00 pm **1552 Challenges of restoring a large-scale wetland ecosystem within a highly developed area of South Louisiana**
Alissa Berthelot, Natural Resource Professionals, LLC
- 4:00 pm-4:20 pm **1557 Crossing wetlands, building bridges: Lessons from Latin America and the Caribbean**
Steffanie Munguia, Middlebury Institute of International Studies
- 4:20 pm-4:40 pm **1413 A heart-shaped bucket: Managing environmental water in a highly contested landscape**
Samantha Capon, Griffith University
- 4:40 pm-5:00 pm **1197 The challenges national authorities face in implementing the Ramsar Convention: A case study from Myanmar**
Robert McInnes, RM Wetlands & Environment Ltd





Tuesday, June 6, 2017

Room 202B

SYMPOSIA

9:45 am-11:35 am

Storms, Sea Level, Climate and Humans: Spatial and Temporal Impacts of Disturbance to Mangrove Forests I

Moderators: Miriam Jones, U.S. Geological Survey; Brian Benschoter, Florida Atlantic University; William Conner, Clemson University - Baruch Institute of Coastal and Forest Science

- 9:55 am-10:15 am 1360 **Mangrove and climate change: leveraging history to understand the present and predict the future along the coast of Florida**
Ilka Feller, Smithsonian Environmental Research Center
- 10:15 am-10:35 am 1564 **The role of climate change and disturbance in structuring mangrove communities**
Mark Hester, University of Louisiana
- 10:35 am-10:55 am 1469 **Biodiversity at both community and species level is integral to the ability of foundation species to recover from disturbance events**
Donna Devlin, TAMU-Corpus Christi
- 10:55 am-11:15 am 1144 **Effects of mangrove expansion on biogeochemical cycling**
Havalend Steinmuller, University of Central Florida
- 11:15 am-11:35 am 1253 **Effects of nutrient enrichment on carbon dynamics in the salt-marsh - mangrove ecotone**
Lorae Simpson, Smithsonian Marine Station

1:00 pm-2:50 pm

Storms, Sea Level, Climate and Humans: Spatial and Temporal Impacts of Disturbance to Mangrove Forests II

Moderators: Miriam Jones, U.S. Geological Survey; Brian Benschoter, Florida Atlantic University; William Conner, Clemson University - Baruch Institute of Coastal and Forest Science

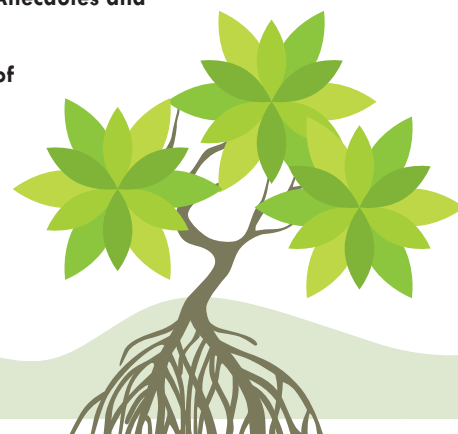
- 1:10 pm-1:30 pm 1583 **Responses of marsh and mangrove ecosystems to coastal change in the Florida Everglades**
Tiffany Troxler, Florida International University
- 1:30 pm-1:50 pm 1475 **Influence of marsh-mangrove interactions on trajectories of recovery following hurricane disturbance**
Ed Proffitt, Texas A&M University - Corpus Christi
- 1:50 pm-2:10 pm 1174 **Mangrove forest vulnerability to sea-level rise: Soil accretion and storms in the coastal Everglades**
Joseph Smoak, University of South Florida
- 2:10 pm-2:30 pm 1322 **Climatic and human drivers of salinity fluctuations and effects on mangrove recovery**
Fernando Jaramillo, Stockholm University
- 2:30 pm-2:50 pm 1374 **Holocene sea level reconstructions from thick mangrove peat deposits: Peat properties, GIA models, and implications for future survivability**
Marguerite Toscano, Smithsonian Institution

3:10 pm-5:00 pm

Novel Mangrove Ecosystems, Mangroves in the Anthropocene

Moderators: Benjamin Branoff, University of Puerto Rico-Río Piedras

- 3:20 pm-3:40 pm 1231 **Urban mangroves: Fragmented, polluted and occupied by synanthrops? Anecdotes and numbers from around the world**
Benjamin Branoff, University of Puerto Rico
- 3:40 pm-4:00 pm 1532 **Propagule density threshold for overcoming predation pressure in areas of black mangrove *Avicennia germinans* expansion**
Amy Langston, University of Florida
- 4:00 pm-4:20 pm 1256 **Carbon storage and greenhouse gas fluxes in the San Juan Bay Estuary: Current trends and likely future states**
Rose Martin, ORISE
- 4:20 pm-4:40 pm 1189 **Novel mangrove ecosystems in stream mouth estuarine wetlands on O'ahu, Hawai'i**
Susan Carstenn, Hawaii Pacific University
- 4:40 pm-5:00 pm 1387 **Mangroves protect U.S. Virgin Islands Marine Protected Area from heavy metal contamination from nearby landfill**
Kristin Grimes, University of the Virgin Islands





Tuesday, June 6, 2017

Room 208B

CONTRIBUTED SESSIONS

9:55 am-11:35 am

Biogeochemistry - C: Gradients in Salinity, Land Use, and Latitude/Longitude

- 9:55 am-10:15 am 1270 **A worldwide comparison of standardized decomposition rates in tidal marshes using the tea-bag index**
Stefanie Nolte, University of Hamburg
- 10:15 am-10:35 am 1528 **The sustainable wetlands adaptation and mitigation program: Assessing tropical peatland and mangrove ecosystems across the globe**
Randy Kolka, USDA Forest Service
- 10:35 am-10:55 am 1240 **Testing mechanisms of plant-soil carbon loss in coastal ecosystems: Insights from simulated saltwater intrusion in wetland mesocosms**
Benjamin Wilson, Florida International University
- 10:55 am-11:15 am 1513 **Land use effects on carbon cycling in Oregon estuarine wetlands**
Keyyana Blount, University of Oregon
- 11:15 am-11:35 am 1138 **Land use change drives soil chemical composition in subtropical and tropical peatlands**
Anna Normand, University of Florida

1:10 pm-2:50 pm

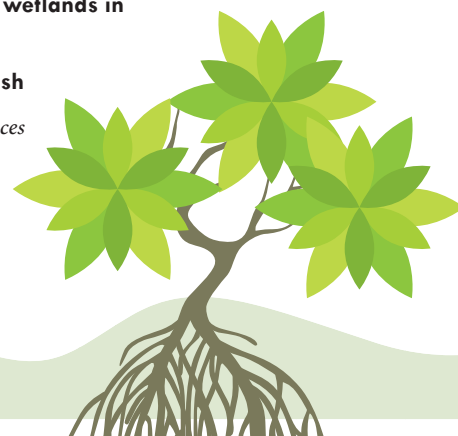
Biogeochemistry - C: Soil Organic Matter

- 1:10 pm-1:30 pm 1128 **Mucking about: Hydrologic regime and soil carbon storage in restored subtropical wetlands**
Alicia Huber, University of Central Florida
- 1:30 pm-1:50 pm 1540 **Shifting abiotic conditions and mangrove encroachment alter soil carbon storage in field and manipulative studies in the Florida Everglades**
Sean Charles, Florida International University
- 1:50 pm-2:10 pm 1107 **Marine transgression is changing coastal sediment organic carbon storage: A quantitative assessment from the southeast saline Everglades, Florida**
John Meeder, Florida International University
- 2:10 pm-2:30 pm 1610 **Thermal alteration of soil organic matter by frequent low-intensity fires may lower greenhouse gas emissions from peatlands**
Neal Flanagan, Duke University Wetland Center
- 2:30 pm-2:50 pm 1551 **Hydropatterns and their effect on soil carbon stocks of natural and restored tidal freshwater wetlands in a Chesapeake Bay tributary**
Amr Keshta, University of Maryland

3:20 pm-5:00 pm

Biogeochemistry - C: Gas Fluxes

- 3:20 pm-3:40 pm 1489 **Greenhouse gas fluxes from four vernal pools in Maine, U.S.**
Lydia Kifner, Department of Civil and Environmental Engineering, University of Maine
- 3:40 pm-4:00 pm 1115 **CO₂ fluxes at the water-air interface in Doñana wetlands under different hydroperiods: Potential impact of climate change and habitat restoration**
Emma Huertas, CSIC
- 4:00 pm-4:20 pm 1410 **Methane production, consumption and emissions in a gradient of coastal wetlands in Veracruz, Mexico**
Maria E. Hernandez, Institute of Ecology
- 4:20 pm-4:40 pm 1380 **Effects of water regimes on methane emissions in peatland and gley marsh mesocosm in the Sanjiang Plain, northeast China**
Xiaoyan Zhu, Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences
- 4:40 pm-5:00 pm 1344 **Impacts of methanogens diversity and microbial activities on exotic invasive plants in salt marsh**
Sunghyun Kim, Smithsonian Environmental Research Center





Tuesday, June 6, 2017

Room 209A

CONTRIBUTED SESSIONS

9:55 am-11:15 am

Coastal Wetland Vulnerability to Climate, Land Use and Invasive Species

- 9:55 am-10:15 am **1274** **Vulnerability of coastal wetlands to changes in climate and land cover land use**
Mei Yu, University of Puerto Rico, Rio Piedras
- 10:15 am-10:35 am **1439** **The “native invader” *Elymus athericus* - How does physiological integration and genetic adaptation contribute to its success in salt marshes?**
Kai Jensen, Hamburg University
- 10:35 am-10:55 am **1247** **Impacts of invasive tamarix and its removal on the invertebrate community in Tijuana Estuary**
Anita Arenas, Cal State Long Beach
- 10:55 am-11:15 am **1072** **A potential trophic cascade and impacts on cordgrass restoration**
Julie Gonzalez, San Francisco State University

1:10 pm-2:50 pm

Monitoring and Assessment I

- 1:10 pm-1:30 pm **1525** **Monitoring change over a decade in cypress wetlands of the southern U.S.**
Mark Brown, United States Forest Service
- 1:30 pm-1:50 pm **1446** **Monitoring created vernal pools in Maryland**
Kate Traut, Straughan Environmental, Inc.
- 1:50 pm-2:10 pm **1559** **Pre- and post-restoration monitoring of Los Machos Mangrove Hydrologic Restoration, former Naval Station Roosevelt Roads, Puerto Rico**
David James, Naval Facilities Engineering Command
- 2:10 pm-2:30 pm **1214** **Assessing macrophyte coverage in kettle holes with unmanned aerial vehicles (UAVs)**
Frenze Geiger, Leibniz-Centre for Agricultural Landscape Research
- 2:30 pm-2:50 pm **1221** **Temporal variability of floristic quality in Great Lakes Coastal Wetlands**
Nicholas Danz, University of Wisconsin-Superior

3:20 pm-4:40 pm

Monitoring and Assessment II

- 3:20 pm-3:40 pm **1347** **Creation of a wetland mitigation bank for riparian habitat in northwest New Jersey**
William Young, Applied Ecological Services
- 3:40 pm-4:00 pm **1484** **Assessment of riparian forest buffer projects within the Susquehanna-Chesapeake Watershed**
Corina Fernandez, Pennsylvania State University
- 4:00 pm-4:20 pm **1342** **Large-scale exclusion of common carp *Cyprinus carpio* on water quality and sedimentary phosphorus in Delta Marsh, Manitoba, Canada**
Gordon Goldsborough, University of Manitoba
- 4:20 pm-4:40 pm **1493** **Urban land use affects resident fish communities and salt marsh habitats in Alabama and west Florida, U.S.**
Christopher Anderson, Auburn University





Tuesday, June 6, 2017

Room 208C

CONTRIBUTED SESSIONS

9:55 am-11:35 am

Restoration, Creation and Mitigation: The Big Picture

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|-------------------|-------------|--|------------------|
| 9:55 am-10:15 am | 1328 | Essential considerations for marsh restoration success
<i>Taylor Sloey, Coastal Environments, Inc</i> | WITHDRAWN |
| 10:15 am-10:35 am | 1417 | Where's my data? Developing effective restoration strategies that meet regulatory requirements
<i>Angelique Bochnak, Environmental Consulting and Technology, Inc.</i> | |
| 10:35 am-10:55 am | 1472 | BMP compliance+
<i>Mark Vosberg, Ecotek</i> | |
| 10:55 am-11:15 am | 1117 | An evaluation of Maine's In Lieu Fee Compensation Program
<i>Bryan Emerson, Stantec</i> | WITHDRAWN |
| 11:15 am-11:35 am | 1254 | Effects of delayed planting of aggressive species and groundwater levels on sedge-meadow establishment in mesocosms
<i>Arnold van der Valk, Iowa State University</i> | |

1:10 pm-2:10 pm

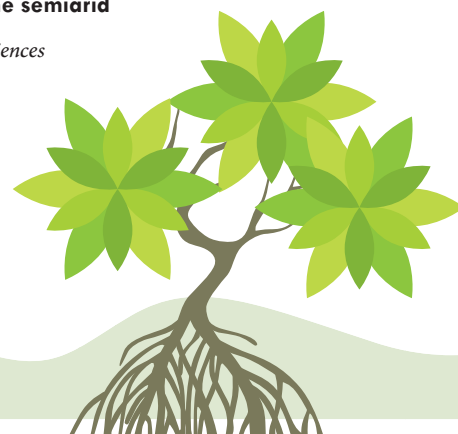
Restoration, Creation and Mitigation - Design, Strategies and Examples

- | | | |
|-----------------|-------------|---|
| 1:10 pm-1:30 pm | 1476 | Twenty-five years of change in the mangrove forest of Biosphere 2
<i>Patrick Kangas, University of Maryland</i> |
| 1:30 pm-1:50 pm | 1046 | The design of a stormwater treatment wetland in a high altitude dry climate to remove total suspended solids and create an urban open space
<i>Jonathan Diller, Smith Environmental and Engineering</i> |
| 1:50 pm-2:10 pm | 1226 | Great Lakes Restoration Initiative wetland restorations in the Braddock Bay Fish and Wildlife Management Area of Lake Ontario
<i>Douglas Wilcox, SUNY College at Brockport</i> |

3:20 pm-5:00 pm

Restoration, Creation and Mitigation: Impacts to Targeted Species

- | | | |
|-----------------|-------------|--|
| 3:20 pm-3:40 pm | 1546 | Fine-scale clonal richness and landscape-scale genetic structuring in two widespread, clonal wetland plants, <i>Schoenoplectus acutus</i> and <i>S. americanus</i>
<i>Karin Kettenring, Utah State University</i> |
| 3:40 pm-4:00 pm | 1088 | Astounding predictability of a restored endangered plant, salt marsh bird's beak <i>Chloropyron maritimum</i> ssp. <i>maritimum</i>, in San Diego Bay, California
<i>Gregory Noe, U.S. Geological Survey</i> |
| 4:00 pm-4:20 pm | 1348 | Physical and community responses to planted <i>Spartina foliosa</i> in a San Francisco Bay salt marsh restoration site
<i>Margot Buchbinder, Romberg Tiburon Center, San Francisco State University</i> |
| 4:20 pm-4:40 pm | 1598 | A place of change: Functional lift for chinook salmon habitat in Seattle's Duwamish Estuary through use of constructed floating wetlands
<i>Hannah Peragine, Graduate Student, Yale School of Forestry and Environmental Studies</i> |
| 4:40 pm-5:00 pm | 1373 | Optimum water depth to improve habitats for the red crowned cranes in the semiarid region
<i>Xuehong Wang, Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences</i> |





Wednesday, June 7, 2017

Room 208C

SYMPOSIA

9:25 am-11:15 am

Climate Change and Wetlands in Latin America and the Caribbean (LAC): Are We Prepared to Adapt and Mitigate the Effects? I

Moderator: Luisa Fernanda Ricaurte, Alexander Humboldt Biological Resources Research Institute

- 9:35 am-9:55 am 1585 **Carbon sequestration, methane emissions and threats of development and climate change on freshwater and coastal wetlands in the Caribbean region**
William J. Mitsch, Florida Gulf Coast University
- 9:55 am-10:15 am 1352 **Mexico carbon mangrove stocks under different climate, hydrology and geomorphology settings**
Jorge Herrera-Silveira, CINVESTAV-IPN Unidad Mérida
- 10:15 am-10:35 am 1508 **The woody encroachment in the Pantanal wetland is a response to natural processes or climate change drivers?** WITHDRAWN
Catia Nunes da Cunha, Federal University of Mato Grosso
- 10:35 am-10:55 am 1468 **Soil methane and carbon dioxide emission in ombrotrophic and minerotrophic peatland complexes in the Pastaza-Marañon Basin of the Peruvian Amazon**
Jhon del Aguila Pasquel, Michigan Tech University
- 10:55 am-11:15 am 1479 **Peruvian Andean mountain peatlands: What do we know about them?**
Ana Maria Planas Clarke, Michigan Technological University

1:00 pm-2:50 pm

Climate Change and Wetlands in Latin America and the Caribbean (LAC): Are We Prepared to Adapt and Mitigate the Effects? II

Moderator: Luisa Fernanda Ricaurte, Alexander Humboldt Biological Resources Research Institute

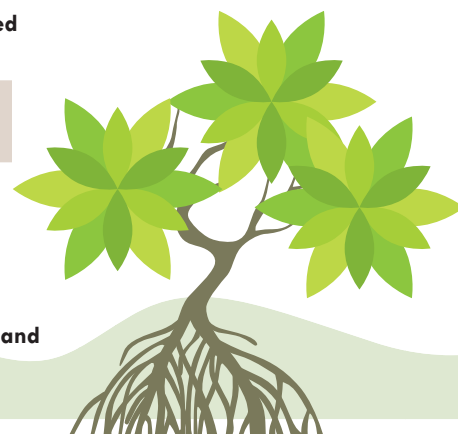
- 1:10 pm-1:30 pm 1429 **Climate change, ecosystem services and wetlands in Colombia**
Luisa Fernanda Ricaurte Lopez, Freelance consultant
- 1:30 pm-1:50 pm 1090 **Response of the dominant diatom *Encyonema evergladianum* to environmental changes associated with sea level rise in the Caribbean basin**
Viviana Mazzei, Florida International University
- 1:50 pm-2:10 pm 1261 **The rise and fall of sugarcane cultivation in Puerto Rico: Opportunities for wetland restoration and waterbird conservation**
Francisco Vilella, U.S. Geological Survey Mississippi Cooperative Fish & Wildlife Research Unit
- 2:10 pm-2:30 pm 1061 **Internal and external factors influencing internal eutrophication of phosphorus in a tropical freshwater wetland (Laguna Cartagena, Puerto Rico)**
Yashira Marie Sánchez Colón, Ponce Health Sciences University
- 2:30 pm-2:50 pm 1301 **Trends in daytime occupancy by West Indian whistling ducks (*Dendrocygna arborea*) at Laguna Cartagena, in southwestern Puerto Rico**
Fred Schaffner, Universidad del Turabo

CONTRIBUTED SESSION

3:20 pm-5:00 pm

GIS and RS I

- 3:20 pm-3:40 pm 1519 **Robust interpolation of water levels and ecological conditions at unmonitored wetlands using regression-kriging**
Dan Schmutz, Greenman-Pedersen, Inc.
- 3:40 pm-4:00 pm 1401 **A multi-disciplinary approach to understanding the climate-driven variability of wetland landscape connectivity** WITHDRAWN
Ganming Liu, Bowling Green State University
- 4:00 pm-4:20 pm 1179 **Monitoring the cumulative effects of fire across woody wetlands of the southeastern U.S. coastal plain**
Steve Norman, USDA Forest Service
- 4:20 pm-4:40 pm 1066 **Effects of changing available water regimes on riparian vegetation in the Mesilla Valley Basin Aquifer New Mexico, U.S.**
Aracely Tellez, New Mexico State University
- 4:40 pm-5:00 pm 1218 **Mangrove carbon storage over sundarbans; Fusing Tandem-X satellite data and field measurements**
SeungKuk Lee, NASA/Goddard Space Flight Center





Wednesday, June 7, 2017

Room 201B

SYMPOSIA

9:25 am-11:15 am

“How Can I Make My Work Matter?” Exploring Ways to Bring Sound Science into Wetland Management and Public Policy I

Moderators: Marla Stelk, Association of State Wetland Managers; Brenda Zollitsch, Association of State Wetland Managers; Megan Lang, U.S. Fish and Wildlife Service

- 9:35 am-9:55 am **1517** **Setting the stage: Sharing findings on national wetland communication needs and case studies**
Brenda Zollitsch, Association of State Wetland Managers
- 9:55 am-10:15 am **1628** **A fish out of water: Co-producing actionable science for decision making**
David Behar, San Francisco Public Utilities Commission
- 10:15 am-10:35 am **1499** **Importance of the USFWS National Wetlands Inventory Program in supporting sound wetland management and policy**
Megan Lang, U.S. Fish and Wildlife Service
- 10:35 am-10:55 am **Q&A Session**
- 10:55 am-11:15 am **Panel Discussion on Integrating Sound Science into Wetland Resource Management Decisions**

1:00 pm-2:50 pm

“How Can I Make My Work Matter?” Exploring Ways to Bring Sound Science into Wetland Management and Public Policy II

Moderators: Marla Stelk, Association of State Wetland Managers; Brenda Zollitsch, Association of State Wetland Managers; Megan Lang, U.S. Fish and Wildlife Service

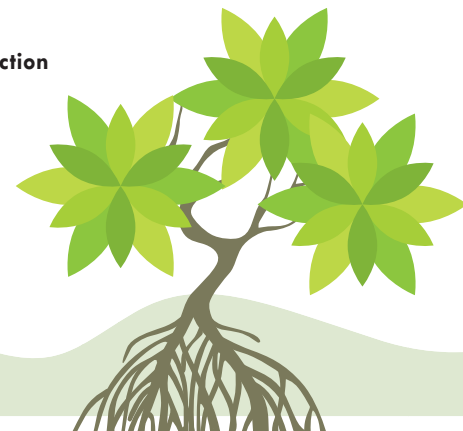
- 1:10 pm-1:30 pm **1326** **Putting cutting edge wetland data to work: Informing environmental decision makers with findings from the National Wetland Condition Assessment 2011**
Michael McDavit, U.S. Environmental Protection Agency
- 1:30 pm-1:50 pm **1547** **Compensatory mitigation performance evaluation**
Brian Topping, U.S. Environmental Protection Agency
- 1:50 pm-2:10 pm **1602** **Translating scientific studies into meaningful information for setting public policy**
Robert Brooks, Pennsylvania State University
- 2:10 pm-2:30 pm **Q&A Session**
- 2:30 pm-2:50 pm **Panel Discussion on Filling science gaps to inform public policy**

3:10 pm-4:40 pm

“How Can I Make My Work Matter?” Exploring Ways to Bring Sound Science into Wetland Management and Public Policy III

Moderators: Marla Stelk, Association of State Wetland Managers; Brenda Zollitsch, Association of State Wetland Managers; Megan Lang, U.S. Fish and Wildlife Service

- 3:20 pm-3:40 pm **1378** **Communicating science for advocacy: What works?**
Astrid Caldas, Union of Concerned Scientists
- 3:40 pm-4:00 pm **1334** **Effective communication strategies for scientists: How to make the connection between research and policy**
Marla Stelk, Association of State Wetland Managers
- 4:00 pm-4:20 pm **Q&A Session**
- 4:20 pm-4:40 pm **Panel Discussion on Advocating for wetland protection using sound science**





Wednesday, June 7, 2017

Room 208A

SYMPOSIA

9:25 am-11:15 am

Integrating Ecology and Management to Promote Wetland Resilience to Global Change I

Moderators: Rose Martin, Environmental Protection Agency Atlantic Ecology Division; Cathleen Wigand, Environmental Protection Agency Atlantic Ecology Division

- 9:35 am-9:55 am 1279 **Greenhouse gas fluxes in coastal wetlands: Impact of chronic nitrogen loading along 100-fold gradient**
Katelyn Szura, University of Rhode Island
- 9:55 am-10:15 am 1619 **Restoration potential of native bulrush genotypes under reduced water availability**
Rachel Hager, Utah State University
- 10:15 am-10:35 am 1251 **Evaluation of floating aquatic vegetation suppression as a new BMP for phosphorus reduction in the Everglades Agricultural Area of Southern Florida**
Jennifer Cooper, University of Florida
- 10:35 am-10:55 am 1420 **How can we manage coastal marshes for threatened species in light of sea-level rise?**
Chris Elphick, University of Connecticut
- 10:55 am-11:15 am 1048 **Assessing tidal marsh resilience to sea-level rise at broad geographic scales with multi-metric indices**
Kenny Raposa, Narragansett Bay National Estuarine Research Reserve

1:00 pm-2:50 pm

Integrating Ecology and Management to Promote Wetland Resilience to Global Change II

Moderators: Rose Martin, Environmental Protection Agency Atlantic Ecology Division; Cathleen Wigand, Environmental Protection Agency Atlantic Ecology Division

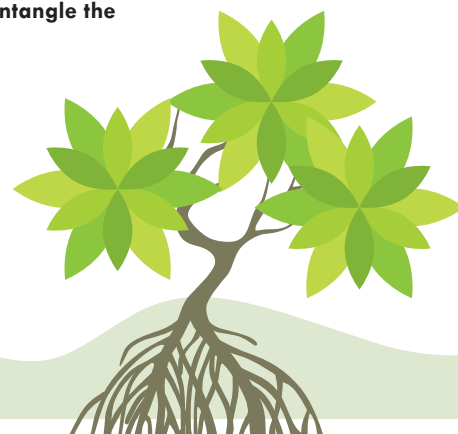
- 1:10 pm-1:30 pm 1118 **Coastal marsh interior drowning: Can it be reversed?**
Elizabeth Watson, Academy of Natural Sciences
- 1:30 pm-1:50 pm 1031 **Benefits of using a social-ecological systems approach to conceptualize and model wetlands restoration**
Stephen Balogh, U.S. Environmental Protection Agency
- 1:50 pm-2:10 pm 1243 **Towards a macrosystems approach for successful coastal management**
Cathleen Wigand, U.S. Environmental Protection Agency
- 2:10 pm-2:30 pm 1483 **A multi-scale resilience-based framework for restoring and conserving wetland and riparian ecosystems**
Jeanne Chambers, U.S. Forest Service WITHDRAWN
- 2:30 pm-2:50 pm 1042 **Short term response of coastal marsh functions to restoration using thin layer placement of dredged material**
Christine VanZomeren, U.S. Army Corps of Engineers

CONTRIBUTED SESSION

3:20 pm-5:00 pm

Monitoring and Assessment IV (Methods)

- 3:20 pm-3:40 pm 1211 **Adaptation of level 1-2-3 assessment methods for ambient monitoring of underrepresented wetlands**
Eric Stein, Southern California Coastal Water Research Project
- 3:40 pm-4:00 pm 1443 **Application of a regionally-specific wetland condition assessment to disentangle the impacts of disturbance and management in arid wetlands**
Rebekah Downard, Utah State University
- 4:00 pm-4:20 pm 1100 **Integrating less visible taxa into wetland management: Methods for surveying fish and amphibians**
Julia Guyton, University of Missouri
- 4:20 pm-4:40 pm 1377 **An introduction to assessing hydrologic and ecological recovery of wetlands in the northern Tampa Bay area following groundwater wellfield cutbacks**
Whitney Kiehn, Tampa Bay Water
- 4:40 pm-5:00 pm 1335 **A comparison of four wetlands assessment procedures in the forested wetlands in the alluvial valleys of east Texas**
Amy Camp, Stephen F. Austin State University



Wednesday, June 7, 2017

Room 201A



SYMPOSIUM

9:25 am-11:15 am

Restoration Meets Ramsar: Ensuring the Best From the Best for Internationally Important Wetlands From the Mountains to the Sea I

Moderators: Andy Herb, Alpine-Eco; Matthew Simpson, WWT Consulting; Nick Davidson, Nick Davidson Environmental

- 9:35 am-9:55 am 1198 **The Ramsar Convention's guidance on wetland restoration: Policy and practice**
Robert McInnes, RM Wetlands & Environment Ltd
- 9:55 am-10:15 am 1520 **Is mitigation banking consistent with the objectives of the Ramsar Convention?**
Royal Gardner, Stetson University College of Law
- 10:15 am-10:35 am 1382 **Addressing the cultural aspects of wetland restoration**
Dave Pritchard, Ramsar Culture Network
- 10:35 am-10:55 am 1624 **Challenges of what to restore at the mouth of the Murray River, Australia**
Peter Gell, Federation University Australia
- 10:55 am-11:15 am 1300 **Assessing mangrove decline in Northern Australia - Management responses?**
Max Finlayson, Institute for Land, Water & Society

1:00 pm-2:30 pm

Restoration Meets Ramsar: Ensuring the Best From the Best for Internationally Important Wetlands From the Mountains to the Sea II

Moderators: Andy Herb, Alpine-Eco; Matthew Simpson, WWT Consulting; Nick Davidson, Nick Davidson Environmental

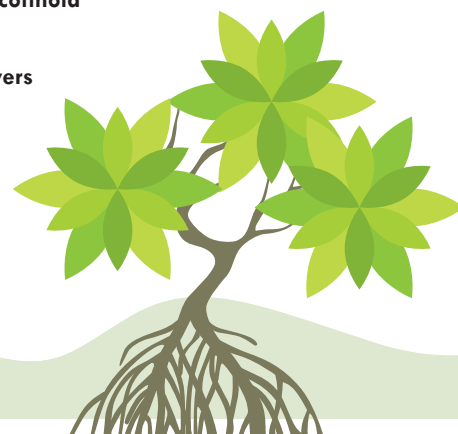
- 1:10 pm-1:30 pm 1621 **The San Francisco Estuary Ramsar site: The technical challenges of restoring its tidal marshes**
Stuart Siegel, San Francisco Bay National Estuarine Research Reserve
- 1:30 pm-1:50 pm 1265 **Can the Everglades survive climate change? Envisioning the Everglades under climate change, sea level rise**
Hilary Flower, University of South Florida, Tampa
- 1:50 pm-2:10 pm 1431 **Agriculture and Mediterranean wetlands**
Patrick Grillas, Tour du Valat
- 2:10 pm-2:30 pm **Panel Discussion**

CONTRIBUTED SESSION

3:20 pm-4:40 pm

Toxicology

- 3:20 pm-3:40 pm 1321 **Distribution, sources and potential toxicological significance of PAHs in surface soils of two typical estuary wetlands in YRD and LRD, northern China**
Hongming Yuan, QJMG, CGS
- 3:40 pm-4:00 pm 1143 **Patterns of neonicotinoid concentrations in Missouri public wetlands: Implications for wetland-dependent organisms**
Kyle Kuechle, University of Missouri
- 4:00 pm-4:20 pm 1202 **Response of benthic invertebrates to experimental manipulation of neonicotinoid insecticides in Missouri wetlands**
Anson Main, University of Missouri
- 4:20 pm-4:40 pm 1053 **Conservation implications and toxicological risk for declining snowy plovers breeding at saline wetlands in the southern Great Plains**
Laura Duffie, Stephen F. Austin State University



Wednesday, June 7, 2017

Room 202A



SYMPOSIA

9:25 am-11:15 am

Wetland Carbon: Science to Guide Conservation and Restoration I

Moderators: Dianna Hogan, U.S. Geological Survey; Camille Stagg, U.S. Geological Survey; Jamie Duberstein, Clemson University - Baruch Institute of Coastal and Forest Science

- 9:35 am-9:55 am 1154 **Carbon sequestration in the Great Dismal Swamp**
Dianna Hogan, U.S. Geological Survey
- 9:55 am-10:15 am 1235 **Aboveground biomass estimates for a forested wetland: Jenkins (2003) versus Woodall (2011)**
Jamie Duberstein, Clemson University
- 10:15 am-10:35 am 1148 **Greenhouse gas flux and soil carbon in natural, restored and drained Prairie Pothole wetlands**
Sheel Bansal, U.S. Geological Survey
- 10:35 am-10:55 am 1596 **Evaluate landscape vulnerability to thermokarst disturbance and its implications for ecosystem services in boreal Alaska using a modeling framework**
Helene Genet, University of Alaska in Fairbanks
- 10:55 am-11:15 am 1085 **Floodplain sediment trapping and carbon sequestration at the edge of blue carbon ecosystems, Atchafalaya Basin, Louisiana**
Cliff Hupp, U.S. Geological Survey

1:00 pm-2:50 pm

Wetland Carbon: Science to Guide Conservation and Restoration II

Moderators: Dianna Hogan, U.S. Geological Survey; Camille Stagg, U.S. Geological Survey; Jamie Duberstein, Clemson University - Baruch Institute of Coastal and Forest Science

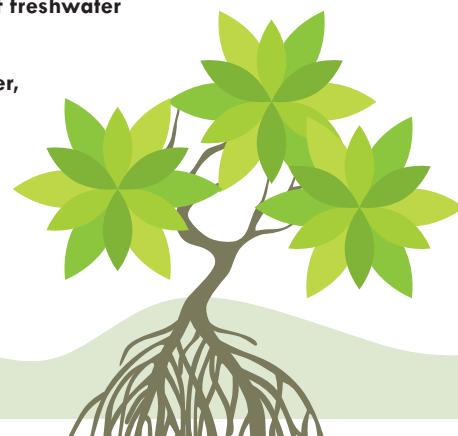
- 1:10 pm-1:30 pm 1145 **Mechanisms of soil carbon accumulation along a landscape gradient in coastal wetlands**
Camille Stagg, U.S. Geological Survey
- 1:30 pm-1:50 pm 1356 **Carbon co-benefits for wildlife foodwebs and carbon sequestration at the Nisqually River Delta, WA**
Isa Woo, U.S. Geological Survey Western Ecological Research Center
- 1:50 pm-2:10 pm 1141 **Climatic controls on coastal wetland ecosystems: The carbon implications of climate change-induced ecological regime shifts**
Michael Osland, U.S. Geological Survey
- 2:10 pm-2:30 pm 1577 **Patterns of soil organic matter in coastal wetlands spanning a soil moisture gradient**
Julia Cherry, University of Alabama
- 2:30 pm-2:50 pm 1160 **Impacts of invasive *Typha* management on coastal wetland carbon dynamics**
Beth Lawrence, University of Connecticut

CONTRIBUTED SESSION

3:20 pm-5:00 pm

Invasive Species

- 3:20 pm-3:40 pm 1259 **Spatial dynamics of the vegetation community associated with an invasive emergent macrophyte in a regulated river**
Meghan Skaer Thomason, U.S. Department of Agriculture-Agricultural Research Service
- 3:40 pm-4:00 pm 1017 **Invasive plant species displace native vegetation and reduce the condition of freshwater wetlands**
Tara Mazurczyk, Penn State University
- 4:00 pm-4:20 pm 1045 **The use of microsatellites to genetically identify a new potential plant invader, *Typha domingensis*, in the United States Midwest region**
Kayla Martinez-Soto, Northeastern Illinois University
- 4:20 pm-4:40 pm 1487 **Five years of Phragmites management at multiple scales: Plant community outcomes on the Great Salt Lake**
Christine Rohal, Utah State University
- 4:40 pm-5:00 pm 1606 **Can wetland plant communities be restored to maximise biotic resistance to invasion?**
Sylvie de Blois, McGill University





Wednesday, June 7, 2017

Room 208B

SYMPOSIA

9:25 am-11:15 am

Wetland Conservation in the 21st Century: A Landscape Scale Interdisciplinary Approach Addressing Multiple Objectives I

Moderators: Brent Murry, U.S. Fish and Wildlife Service, Caribbean Landscape Conservation Cooperative; Luis Villanueva-Cubero, U.S. Fish and Wildlife Service, Caribbean Landscape Conservation Cooperative

- 9:35 am-9:55 am 1423 **An introduction and problem framing to wetland conservation within a landscape perspective: integrating multiple stakeholders and multiple objectives**
Brent Murry, U.S. Fish and Wildlife Service - CLCC
- 9:55 am-10:15 am 1379 **Landscape conservation design and the iCASS Platform: An adaptation pathway for social transformability in sustainability planning**
Robert Campellone, U.S. Fish and Wildlife Service
- 10:15 am-10:35 am 1297 **Against tides and currents: Resilient coastal wetlands in face of climate change in the insular Caribbean?**
Luis A. Villanueva-Cubero, University of Puerto Rico
- 10:35 am-10:55 am 1116 **Impacts of nature exposure on human health and well-being: Additional justification for ecosystem conservation and restoration planning**
Ariana Sutton-Grier, University of Maryland and NOAA
- 10:55 am-11:15 am 1620 **Collaborations for conservation**
Ryann Cressey, Ducks Unlimited

1:00 pm-2:50 pm

Wetland Conservation in the 21st Century: A Landscape Scale Interdisciplinary Approach Addressing Multiple Objectives II

Moderators: Brent Murry, U.S. Fish and Wildlife Service, Caribbean Landscape Conservation Cooperative; Luis Villanueva-Cubero, U.S. Fish and Wildlife Service, Caribbean Landscape Conservation Cooperative

- 1:10 pm-1:30 pm 1246 **Leveraging landscape level monitoring and assessment program for developing resilient shorelines throughout the Laurentian Great Lakes**
Donald Uzarski, Central Michigan University
- 1:30 pm-1:50 pm 1082 **Connectivity, invasive non-native species, and climate change in Everglades restoration**
Laura Brandt, U.S. Fish and Wildlife Service
- 1:50 pm-2:10 pm 1416 **Non-native fish and Everglades restoration: An unexpected challenge to restoring an iconic ecosystem**
Joel Trexler, Florida International University
- 2:10 pm-2:30 pm 1407 **Landscape incremental adaptive restoration of the Everglades**
Fred Sklar, South Florida Water Management District
- 2:30 pm-2:50 pm 1284 **Toward a sustainable landscape in Puerto Rico: Building on multiple objectives, scales and scientific efforts to foster resiliency across ecosystems**
Jaime Collazo, NC Cooperative Research Unit

CONTRIBUTED SESSION

3:20 pm-5:00 pm

Wetland Soils

- 3:20 pm-3:40 pm 1244 **Visual assessment of sulfate reduction to identify wetland soils**
Karen Vaughan, University of Wyoming
- 3:40 pm-4:00 pm 1381 **Hydroperiod and associated soil morphological properties of Piedmont Wetlands in Northern Virginia, U.S.**
W. Lee Daniels, Virginia Tech
- 4:00 pm-4:20 pm 1595 **Forested wetland water source investigation using stable isotopes of hydrogen and oxygen as tracers**
Mary Grace Lemon, Louisiana State University
- 4:20 pm-4:40 pm 1213 **The roots of blue carbon in mangrove forests: The effects of soil properties on below-ground carbon allocation**
Anne Ola, University of Queensland
- 4:40 pm-5:00 pm 1238 **Spatial distribution and sources of organic matter in surface sediments of coastal wetland in Liaohe River Estuary (LRE), Northern China**
Xigui Ding, Qingdao Institute of Marine Geology





Wednesday, June 7, 2017

Room 202B

CONTRIBUTED SESSION

9:35 am-11:15 am

Global Climate Change (Non-Coastal)

- 9:35 am-9:55 am **1092 Predicting playa vulnerability to future climate conditions through a greenhouse experiment**
Rachel Owen, University of Missouri
- 9:55 am-10:15 am **1018 Effects of warm temperatures and aquatic macrophytes on oxygen dynamics in a shallow wetland**
Russell Rader, Brigham Young University
- 10:15 am-10:35 am **1030 Evidence for a climate-induced eco-hydrological state shift in the Prairie Pothole region of North America**
Owen McKenna, U.S. Geological Survey
- 10:35 am-10:55 am **1310 Time series analysis of hydraulic head data in Caribou Bog, Maine (U.S.) to evaluate biogenic gas ebullition and other events**
Andrew Reeve, University of Maine
- 10:55 am-11:15 am **1365 Nitrous oxide emission from tropical peatlands**
Kuno Kasak, University of Tartu

SYMPOSIA

1:00 pm-2:50 pm

Biogeochemical Responses to Global Change Across a Gradient of Wetland Diversity I

Moderators: Todd Osborne, Whitney Laboratory for Marine Bioscience; Jason Martina, Texas A&M University

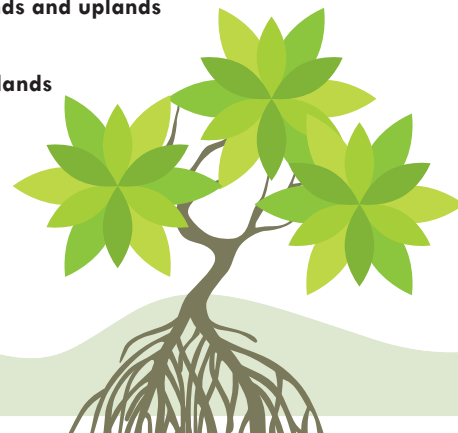
- 1:10 pm-1:30 pm **1571 Climate induced acceleration of carbon and nutrient cycling in a saltmarsh - mangrove ecotone**
Todd Osborne, University of Florida
- 1:30 pm-1:50 pm **1351 The role of priming effects on the conversion of blue carbon to carbon dioxide in the coastal zone**
Nicholas Ward, Pacific Northwest National Laboratory
- 1:50 pm-2:10 pm **1434 Changes in capacity for water quality improvement through sea level-induced coastal wetland loss**
John White, Louisiana State University
- 2:10 pm-2:30 pm **1346 Biogeochemical controls on peat accumulation along a latitudinal gradient from Minnesota to Peru**
Curtis Richardson, Duke University
- 2:30 pm-2:50 pm **1539 Hydrodynamics of Canadian Rocky Mountain wetlands**
Cherie Westbrook, University of Saskatchewan

3:10 pm-5:00 pm

Biogeochemical Responses to Global Change Across a Gradient of Wetland Diversity II

Moderators: Todd Osborne, Whitney Laboratory for Marine Bioscience; Jason Martina, Texas A&M University

- 3:20 pm-3:40 pm **1488 Aquatic productivity in subtropical marsh - Observations from Everglades stormwater treatment areas**
Paul Julian, University of Florida
- 3:40 pm-4:00 pm **1294 Restored coastal and natural wetlands in Louisiana: Biogeochemical cycling of carbon linked to ecosystem services**
Sarah Wood, Louisiana State University
- 4:00 pm-4:20 pm **1406 Biogeochemical and microbial controls over methane dynamics in wetlands and uplands of Gabon, Africa**
Scott Bridgman, University of Oregon
- 4:20 pm-4:40 pm **1503 Impact of climate change on carbon storage and methane flux in the wetlands of the Peruvian Andes: Bofedales as net carbon sinks or sources?**
Denice Wardrop, Penn State University
- 4:40 pm-5:00 pm **1481 Sea level rise impacts on decomposer communities of California salt marshes**
Ellie Wenger, California State University Long Beach





Wednesday, June 7, 2017

Room 209A

CONTRIBUTED SESSIONS

9:35 am-11:15 am

Restoration, Creation and Mitigation: Examples

- 9:35 am-9:55 am 1241 **Wetland loss and artificial water feature gain in the Tampa Bay watershed, 1950-2007**
Kurt Schmidt, University of South Florida
- 9:55 am-10:15 am 1028 **Carbon dioxide fluxes and plant interactions during successional development of a created salt marsh**
Andrew Muench, Louisiana State University
- 10:15 am-10:35 am 1152 **Blue carbon accumulation in a chronosequence of created coastal marshes in the Chenier Plain of southwest Louisiana**
Katherine Abbott, Louisiana State University
- 10:35 am-10:55 am 1448 **Assessment of the hydrology, soils, vegetation and amphibians of a restored wetland in west-central Illinois**
Taylor Bookout, Principia College
- 10:55 am-11:15 am 1480 **Temporal variation in mechanisms driving biodiversity-productivity relationship in a restored coastal wetland**
Christine Whitcraft, California State University Long Beach

1:10 pm-2:50 pm

Monitoring and Assessment III (Methods)

- 1:10 pm-1:30 pm 1012 **A quick, inexpensive, easy field protocol to determine anoxia in hydric soils of various wetlands**
Richard Chinn, Richard Chinn Environmental Training, Inc.
- 1:30 pm-1:50 pm 1230 **A weight of evidence approach to assessing hydrologic and ecological recovery of wetlands from previous impacts**
Christopher Shea, Tampa Bay Water
- 1:50 pm-2:10 pm 1457 **Evaluating restoration success of Southern California wetlands using traditional univariate techniques and multivariate analyses**
Jessica Lee, California State University-Long Beach
- 2:10 pm-2:30 pm 1404 **Development and validation of a rapid assessment method for determining Condition of Oklahoma depressional wetlands**
Sarah Gallaway, Oklahoma State University
- 2:30 pm-2:50 pm 1245 **Use of structured decision making to optimize salt marsh management decisions on five National Wildlife Refuges in the northeastern United States**
Hilary Neckles, U.S. Geological Survey Patuxent Wildlife Research Center

3:20 pm-5:00 pm

Microbes and Macroinvertebrates

- 3:20 pm-3:40 pm 1530 **Insight into coastal wetland prokaryotic communities and their response to changing abiotic conditions**
Philip Lee, University of Alabama
- 3:40 pm-4:00 pm 1390 **Assessing sea level rise impacts on sediment bacterial communities in a southern California salt marsh**
Jesse Dillon, California State University, Long Beach
- 4:00 pm-4:20 pm 1170 **Microbial community composition and diversity in salt marsh sediments are influenced by genetic structure of foundational plant *Spartina alterniflora***
Greg Zogg, University of New England
- 4:20 pm-4:40 pm 1414 **Macroinvertebrate assemblages in selected New Jersey springs**
Yaritza Acosta Caraballo, Montclair State University
- 4:40 pm-5:00 pm 1095 **Linking spatial setting, climate, and biotic interactions to aquatic macroinvertebrate community structure in prairie-pothole wetlands**
Kyle McLean, U.S. Geological Survey





Thursday, June 8, 2017

Room 202B

SYMPOSIA

9:45 am-11:35 am

Climate Change Effects on Northern Peatlands: Results of Manipulative Experiments I

Moderators: Randy Kolka, USDA Forest Service Northern Research Station; Brian Branfireun, University of Western Ontario; Evan Kane, Michigan Technological University

- 9:55 am-10:15 am 1185 **Whole-ecosystem-warming and elevated-CO₂ impacts on net C-cycle efflux from the SPRUCE raised bog: Results through 1.5 years of manipulation**
Paul Hanson, Oak Ridge National Laboratory
- 10:15 am-10:35 am 1538 **Hydrology and plant functional groups alter carbon cycling in Sphagnum peatlands: The PEATcosm experiment**
Erik Lilleskov, USDA Forest Service
- 10:35 am-10:55 am 1556 **How does whole-ecosystem warming of a peatland affect methane production?**
Anya Hopple, University of Oregon
- 10:55 am-11:15 am 1415 **Soil organic matter reduction in peatland soils: Role of peat type, depth and climate change**
Jason Keller, Chapman University
- 11:15 am-11:35 am 1463 **Effects of temperature on humic substance reduction in a northern Minnesota peatland**
Jessica Rush, Chapman University

1:00 pm-2:50 pm

Climate Change Effects on Northern Peatlands: Results of Manipulative Experiments II

Moderators: Randy Kolka, USDA Forest Service Northern Research Station; Brian Branfireun, University of Western Ontario; Evan Kane, Michigan Technological University

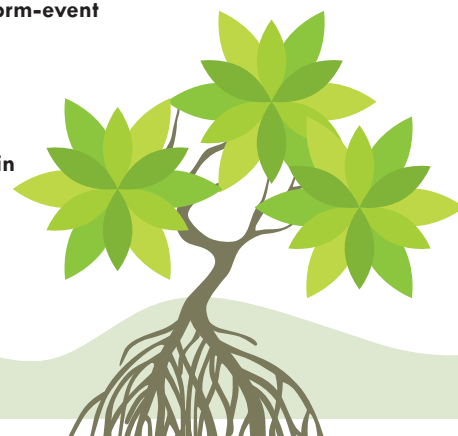
- 1:10 pm-1:30 pm 1392 **Are methylophilic substrates important in northern peatland methane cycling?**
Cassandra Medvedeff, Chapman University
- 1:30 pm-1:50 pm 1055 **Absence of warming effects on methane production in Arctic peatland**
Hojeong Kang, Yonsei University
- 1:50 pm-2:10 pm 1502 **Insights into the Sphagnum - Microbiome structure and function to experimental warming**
Weston David, Oak Ridge National Lab
- 2:10 pm-2:30 pm 1523 **Influence of ecosystem warming on mercury concentrations in peat porewater**
Randy Kolka, USDA Forest Service
- 2:30 pm-2:50 pm 1177 **Representing northern peatland hydrology and biogeochemistry with ALM land surface model**
Paul Hanson, Oak Ridge National Lab

CONTRIBUTED SESSION

3:20 pm-5:00 pm

Biogeochemistry - Nutrient Cycling

- 3:20 pm-3:40 pm 1131 **Influence of warming on freeze-thaw treated dissolved N in wetland soil solutions**
Yuanchun Zou, Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences
- 3:40 pm-4:00 pm 1569 **Nutrient reduction in urban stormwater runoff through seasonally and storm-event pulsed created wetlands in subtropical Florida**
Lauren Griffiths, Everglades Wetland Research Park, Florida Gulf Coast University
- 4:00 pm-4:20 pm 1217 **Large-scale controls of denitrification in non-tidal floodplains of the Chesapeake Bay watershed**
Alicia Korol, George Mason University
- 4:20 pm-4:40 pm 1594 **Contrasting belowground plant growth responses to nutrient enrichment in coastal wetlands**
Sean Graham, Nicholls State University
- 4:40 pm-5:00 pm 1227 **How a clogged canal impacts ecological health in a tropical urban wetland ecosystem**
Autumn Oczkowski, U.S. Environmental Protection Agency





Thursday, June 8, 2017

Room 208B

SYMPOSIA

9:45 am-11:35 am

Creating and Restoring Wetlands: Science Meets Practice I

Moderators: Ben LePage, Pacific Gas and Electric Company; Andy Herb, Alpine-ECO

- 9:55 am-10:15 am 1526 **Site selection and other challenges for stream and wetland mitigation projects - Tulsa Port of Catoosa, Oklahoma**
Scott Jecker, Whitenton Group, Inc.
- 10:15 am-10:35 am 1269 **Wetlands protection in practice: Lessons learned**
Shannon Lindquist, Arcadis
- 10:35 am-10:55 am 1097 **Dynamic wetland delineation and analysis through ArcGIS Online (AGOL)**
Leandra Cleveland, HDR Engineering, Inc.
- 10:55 am-11:15 am 1339 **Phytoremediation pilot study for arsenic-impacted coastal soils and sediments in northern California**
Jim Warner, ERM
- 11:15 am-11:35 am 1315 **Phytoremediation and microbial degradation pilot studies for a former solid waste management unit in northern California**
Ben LePage, Pacific Gas and Electric Company

1:00 pm-2:50 pm

Creating and Restoring Wetlands: Science Meets Practice II

Moderators: Ben LePage, Pacific Gas and Electric Company; Andy Herb, Alpine-ECO

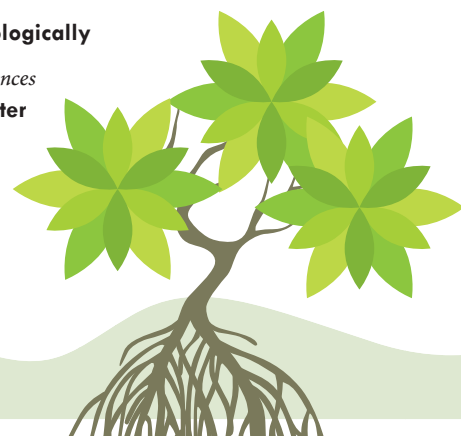
- 1:10 pm-1:30 pm 1206 **Wetland restoration in the Rocky Mountains, U.S.: Lessons from the field**
Andy Herb, AlpineEco
- 1:30 pm-1:50 pm 1212 **Restoring marsh by treating Carolina willow with herbicides: Will it work long-term?**
Christy Akers, St. Johns River Water Management District
- 1:50 pm-2:10 pm 1330 **Protecting soil and vegetative structure to enhance function in restored and created wetlands**
Gillian Davies, BSC Group, Inc.
- 2:10 pm-2:30 pm 1521 **The legal status of WOTUS**
Royal Gardner, Stetson University College of Law
- 2:30 pm-2:50 pm 1302 **The state of the world's remaining wetlands: Why do we need to know, what do we know, what don't we know and what do we need to do about it?**
C. Max Finlayson, Institute for Land, Water & Society; Robert McInnes, RM Wetlands & Environmental Ltd.

CONTRIBUTED SESSION

3:20 pm-5:00 pm

Wetland Water Quality and Quantity

- 3:20 pm-3:40 pm 1561 **Characterizing hydrologic properties in Maine vernal pools with a focus on groundwater patterns**
Kelli Straka, The University of Maine
- 3:40 pm-4:00 pm 1280 **Winter hypoxia in coastal embayments of the lower St. Louis River (Wisconsin)**
Ralph Garono, University of Minnesota-Duluth
- 4:00 pm-4:20 pm 1375 **Phytoplankton community responses to environmental variables in hydrologically connected aquatic habitats in the Lake Xingkai basin**
Yuxiang Yuan, Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences
- 4:20 pm-4:40 pm 1317 **MUMPs-SABS - A quantitative tool for predicting marine end-member water quality of coastal wetlands**
Joydeb Bhattacharyya, Texas A&M University, College Station
- 4:40 pm-5:00 pm 1501 **Numerical estimation of mangrove forest wetland shoreline protection in the Lower Laguna Madre, Texas**
Jungseok Ho, University of Texas Rio Grande Valley





Thursday, June 8, 2017

Room 202A

SYMPOSIA

9:45 am-11:35 am

Global Change Influences on Blue Carbon Pools and Processes I

Moderators: Elizabeth Watson, Drexel University; Thomas Mozdzer, Bryn Mawr College

- 9:55 am-10:15 am 1345 **Understanding the contribution of vegetation to soil carbon pools and accretion in *Spartina alterniflora*-dominated marshes**
Tracy Quirk, Louisiana State University
- 10:15 am-10:35 am 1081 **Assessing controls on estuarine soil organic carbon stocks using a combined field and modelling approach**
Marijn Van de Broek, KU Leuven
- 10:35 am-10:55 am 1233 **Coastal wetland soil organic carbon fates and fluxes in the conterminous United States**
Audra Hinson, Texas A&M University
- 10:55 am-11:15 am 1411 **Biophysical controls on ecosystem-scale CO₂ exchange in a brackish tidal marsh in northern California**
Sara Knox, USGS
- 11:15 am-11:35 am 1462 **Nutrient enrichment induces environmental filtering to alter blue carbon pools and processes**
Thomas Mozdzer, Bryn Mawr College

1:00 pm-2:50 pm

Global Change Influences on Blue Carbon Pools and Processes II

Moderators: Elizabeth Watson, Drexel University; Thomas Mozdzer, Bryn Mawr College

- 1:10 pm-1:30 pm 1122 **Are nitrogen polluted coastal wetlands more vulnerable to sea level rise?**
Elisabeth Powell, Academy of Natural Sciences of Drexel University
- 1:30 pm-1:50 pm 1257 **Long-term eutrophication prompts tradeoffs in nitrous oxide and methane emission in a New England salt marsh**
Rose Martin, ORISE
- 1:50 pm-2:10 pm 1281 **Mangrove mapping and monitoring to quantify ecosystem goods and services using earth observation satellite data**
Chandra Giri, U.S. Environmental Protection Agency
- 2:10 pm-2:30 pm 1024 **Blue carbon stock assessment in both fringe and riverine mangrove ecosystem also post-aquaculture landscape in Kaimana, West Papua - Indonesia** **WITHDRAWN**
Barakalla Robyn, Conservation International
- 2:30 pm-2:50 pm 1124 **Coastal blue carbon: Societally-relevant, user-inspired science to inform policy and management**
Ariana Sutton-Grier, University of Maryland and NOAA

CONTRIBUTED SESSION

3:20 pm-5:00 pm

GIS and RS II (Mapping)

- 3:20 pm-3:40 pm 1425 **Leveraging public aerial image datasets to monitor vegetation dynamics in wetland ecosystems**
Sophie Taddeo, University of California at Berkeley
- 3:40 pm-4:00 pm 1545 **Wetland mapping in Nevada for greater sage-grouse conservation**
Elaine Blok, U.S. Fish and Wildlife Service
- 4:00 pm-4:20 pm 1615 **Exploring sensor resolution requirements for mapping wetland vegetation phenology**
Christiana Ade, North Carolina State University
- 4:20 pm-4:40 pm 1529 **Arctic coastal plain wetland classification and web-based planning tools for enhanced wetland management**
Craig Tweedie, University of Texas at El Paso
- 4:40 pm-5:00 pm 1625 **Establishing a supervised classification of mangrove ecosystems: A case study of the Zambezi and Rufiji Deltas**
Priscilla Baltezar, Humboldt State University





Thursday, June 8, 2017

Room 201A

SYMPOSIA

9:45 am-11:35 am

Wetlands, Climate Change and People I

Moderators: Chris Joyce, University of Brighton; Beth Middleton, U.S. Geological Survey Wetland and Aquatic Research Center

- 9:55 am-10:15 am **1043 Traditional management of vegetation in wetlands**
Beth A. Middleton, U.S. Geological Survey
- 10:15 am-10:35 am **1368 Impact of climate change on subsiding peat meadows in the Netherlands**
Jos Verhoeven, Utrecht University
- 10:35 am-10:55 am **1047 Carbon and nitrogen balance in full-drained peatland forests**
Äelo Mander, University of Tartu
- 10:55 am-11:15 am **1424 Ecological impacts of inter-basin water transfers: Implications to wetland distribution, function and biota in tropical regions**
Brent Murry, U.S. Fish and Wildlife Service - CLCC
- 11:15 am-11:35 am **1367 Impacts of climate change on Arctic coastal wetlands**
Raymond Ward, School of Environment & Technology, University of Brighton

1:00 pm-2:50 pm

Wetlands, Climate Change and People II

Moderators: Chris Joyce, University of Brighton; Beth Middleton, U.S. Geological Survey Wetland and Aquatic Research Center

- 1:10 pm-1:30 pm **1273 Impacts of recent climate change in temperate seagrass ecosystems**
Mariana Lima, University of Brighton
- 1:30 pm-1:50 pm **1456 Urban wetlands of Colombo, Sri Lanka: Why they are important for life in the city now and as the climate changes**
Matthew Simpson, WWT Consulting
- 1:50 pm-2:10 pm **1021 Future wet grasslands: Ecological and human implications of climate change**
Christopher Joyce, University of Brighton
- 2:10 pm-2:30 pm **1194 Impact of climate change and anthropogenic pressure on the ecology of designated tropical coastal wetlands of Kerala**
Shadananan Nair Krishnapillai, Nansen Environmental Research Centre (India)
- 2:30 pm-2:50 pm **1485 Relative wetland vulnerabilities to climate change in the Mid-Atlantic region: A case study**
Michael Nassry, Riparia at Penn State

CONTRIBUTED SESSION

3:20 pm-5:00 pm

Adaptation and Education

- 3:20 pm-3:40 pm **1568 A ubiquitous sensing model for environmental science, interaction research and public engagement with restored wetlands**
Gershon Dublon, MIT Media Lab
- 3:40 pm-4:00 pm **1362 An adaptation strategy of inhabitants of Haor Basin of Bangladesh**
Mohammad Nazmul Ahsan, Department of Bangladesh Haor and Wetlands Development
- 4:00 pm-4:20 pm **1522 Increasing access to high quality wetland training in the United States**
Brenda Zollitsch, Association of State Wetland Managers
- 4:20 pm-4:40 pm **1093 Interdisciplinary collaboration between wetland ecology and eco-art to improve ecological literacy and communication in college education**
Changwoo Ahn, George Mason University
- 4:40 pm-5:00 pm **1013 Valuing the storm surge mitigation effect of coastal wetland**
Fanglin Sun, University of California, San Diego





Thursday, June 8, 2017

Room 208C

CONTRIBUTED SESSIONS

9:55 am-11:35 am

Ecosystem Services

- 9:55 am-10:15 am 1428 **Assessing no net loss of ecosystem services: Are perceived conflicts with functions an artifact of our assessment paradigm?**
William Kleindl, Montana State University
- 10:15 am-10:35 am 1203 **Restoring and regaining ecosystem services of riparian areas**
Brian Kronvang, Aarhus University
- 10:35 am-10:55 am 1597 **Plant diversity and ecological services of freshwater wetlands**
Jacques Brisson, University of Montreal
- 10:55 am-11:15 am 1057 **Dengue prevalence in the San Juan Bay Estuary: Evaluating the role of wetland ecosystem services**
Rebeca de Jesus Crespo, U.S. Environmental Protection Agency
- 11:15 am-11:35 am 1565 **Untangling trends and drivers of changing river discharge along Florida's gulf coast**
Katie Glodzik, University of Florida

1:10 pm-2:30 pm

Managing Water Quality and Quantity

- 1:10 pm-1:30 pm 1096 **Optimizing carbon to nitrogen ratios to improve nitrogen removal in agricultural drainage ditches**
Derek Faust, USDA Agricultural Research Service
- 1:30 pm-1:50 pm 1435 **Floating wetlands: A potential means to purify agricultural effluent in South Africa?**
Philip Frenzel, Stellenbosch University
- 1:50 pm-2:10 pm 1296 **Removal of pharmaceuticals in constructed wetlands - Four case studies from the Czech Republic**
Jan Vymazal, Czech University of Life Sciences Prague
- 2:10 pm-2:30 pm 1567 **Water management considering ecosystem services at Budai Salt Pan Wetland Pin-Han Kuo**
Virginia Institute of Marine Science, College of William and Mary

3:20 pm-5:00 pm

Animal Ecology

- 3:20 pm-3:40 pm 1314 **Habitat and seasonal preferences of fiddler crabs across tidal marsh ecotones**
Gwendolyn Murphy, University of Southern Illinois
- 3:40 pm-4:00 pm 1187 **Environmental factors affecting wetland use by cryptic salamanders**
Kristine Hoffmann, University of Maine
- 4:00 pm-4:20 pm 1216 **Comparative landscape genetics of two vernal pool amphibians in an urbanizing landscape**
Jared Homola, University of Maine
- 4:20 pm-4:40 pm 1466 **Wood frog (*Lithobates sylvaticus*) larval condition, development and survival along an urbanization gradient**
Carly Eakin, University of Maine
- 4:40 pm-5:00 pm 1126 **Impact of urbanization and shoreline development on salt marsh bird community composition**
Maynard Schaus, VA Wesleyan College





Thursday, June 8, 2017

Room 201B

CONTRIBUTED SESSIONS

9:55 am-11:35 am

Plant Ecology: Water Relationships

- 9:55 am-10:15 am 1451 **Interacting effects of genotype and environment on tall form *Spartina alterniflora***
Caitlin Bauer, Villanova University
- 10:15 am-10:35 am 1103 **Ecology of the federally threatened aquatic plant, *Howellia aquatilis*, and implications for northern Idaho floodplain-wetland management**
Catherine Wiechmann, Watershed Consulting LLC
- 10:35 am-10:55 am 1534 **An analysis of seedling dynamics in two hydrologically altered Louisiana floodplains**
Whitney Kroschel, Louisiana State University
- 10:55 am-11:15 am 1599 **Vegetation dynamics along hydrologic gradient in marl- and peat-dominated wetlands in Everglades, Florida**
Jay Sah, Florida International University
- 11:15 am-11:35 am 1075 **Interplay of wetland plant assemblages and water quality dynamics in restored wetlands**
Cory Shoemaker, Mississippi State University

1:10 pm-2:50 pm

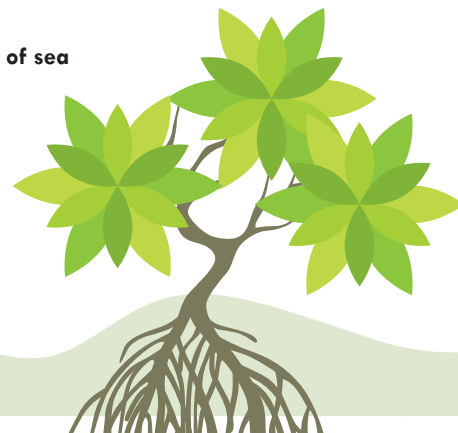
Plant Succession and Disturbance

- 1:10 pm-1:30 pm 1239 **Flora of Pingo Scar Wetlands in central Pennsylvania, U.S.**
Sarah Chamberlain, Penn State University
- 1:30 pm-1:50 pm 1478 **Long term monitoring of permanent forest plots in the Felsenthal Green Tree Reservoir, Arkansas, U.S.: Decline and recovery**
Richard Day, U.S. Geological Survey
- 1:50 pm-2:10 pm 1071 **Coarse woody debris in riparian corridors of central Pennsylvania: How quantities, characteristics and dynamics vary with anthropogenic disturbance**
Timothy Gould, Penn State University
- 2:10 pm-2:30 pm 1527 **Woody encroachment drivers and responses in herbaceous plant communities of the Pantanal wetland** WITHDRAWN
Fernando Henrique Barbosa da Silva, Universidade Federal do Rio Grande do Sul
- 2:30 pm-2:50 pm 1541 **Catastrophic short-term impacts of emerald ash borer on tidal freshwater forests**
Andy Baldwin, University of Maryland

3:20 pm-5:00 pm

Wetland Conservation

- 3:20 pm-3:40 pm 1426 **Florida cowhorn orchid: An alternative Ex situ conservation method for the endangered *Cyrtopodium punctatum***
David Riera, Florida International University
- 3:40 pm-4:00 pm 1108 **Expansion of riparian mangrove alters community composition of wetland birds in northern Taiwan**
Tzung-Su Ding, National Taiwan University
- 4:00 pm-4:20 pm 1509 **Phytodiversity and ecological status of two Lacustrine Wetlands in a rural and urban community in Uyo, Akwa Ibom State, Nigeria.**
Richard Ita University of Uyo,Uyo
- 4:20 pm-4:40 pm 1372 **Land use legacy of wetland drainage for agriculture exacerbates impacts of sea level rise on coastal wetlands in the tropics**
Daniel Davila-Casanova, University of Puerto Rico
- 4:40 pm-5:00 pm 1329 **Who's protecting the ecologically important Carolina bays?**
Marcus Sizemore, CDM Smith





Thursday, June 8, 2017

Room 209A

CONTRIBUTED SESSIONS

9:55 am-11:35 am

Sea-Level Rise (Vegetation)

- 9:55 am-10:15 am **1383** **Vegetation community composition shifts along an elevation gradient in a wetland transgression experiment on the Delmarva Peninsula**
Eliza McFarland, U.S. Geological Survey--Patuxent Wildlife Research Center
- 10:15 am-10:35 am **1627** **Vegetation diversity and nutrient allocation along a salinity gradient in the Chesapeake Bay**
Lori Sutter, University of Georgia
- 10:35 am-10:55 am **1242** **Forest composition and growth in a freshwater forested wetland community across a salinity gradient in South Carolina, U.S.**
William Conner, Baruch Institute of Coastal Ecology and Forest Science
- 10:55 am-11:15 am **1607** **Upslope and downslope migration of coastal vegetation: Compositional effects of a reciprocal transplant experiment**
Loretta Battaglia, Southern Illinois University
- 11:15 am-11:35 am **1201** **Tree island dynamics and structure in the coastal Everglades**
Michael Ross, Florida International University

1:10 pm-2:30 pm

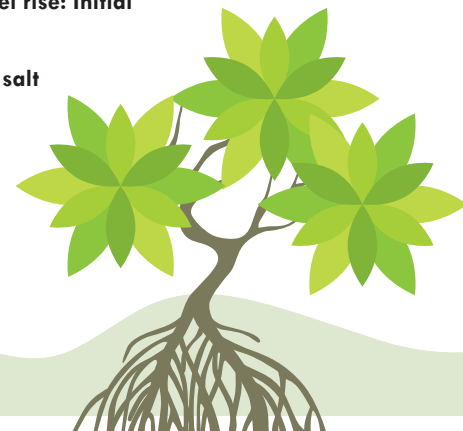
Sea-Level Rise

- 1:10 pm-1:30 pm **1159** **What a world of virtual wetlands can tell us about carbon sequestration**
James Morris, University of South Carolina
- 1:30 pm-1:50 pm **1290** **Soil elevation change and vertical accretion along a gradient from coastal marsh to mangrove forest in southwestern Florida**
Rebecca Howard, U.S. Geological Survey
- 1:50 pm-2:10 pm **1613** **Stochastic weather and climate event impact on groundwater salinity and system health of coastal baldcypress swamps**
Elliott White, University of Florida
- 2:10 pm-2:30 pm **1171** **Tidal freshwater forests: Sentinels for climate change**
Sarah Widney, Indiana University

3:20 pm-5:00 pm

Global Climate Change and Sea-Level Rise

- 3:20 pm-3:40 pm **1077** **Impacts of episodic storms on urban tidal freshwater processes**
Kirk Raper, Academy of Natural Sciences of Drexel University
- 3:40 pm-4:00 pm **1298** **Verifying rates of fine root production of tidal wetland forests as they transition to oligohaline marshes of the southeastern United States**
Andrew From, U.S. Geological Survey
- 4:00 pm-4:20 pm **1135** **Effects of saltwater intrusion and urban runoff on greenhouse gas emissions from freshwater wetland mesocosms**
April Doroski, University of Connecticut
- 4:20 pm-4:40 pm **1312** **Adding sediment to coastal wetlands as a strategy for managing sea level rise: Initial results from California**
Richard Ambrose, University of California, Los Angeles
- 4:40 pm-5:00 pm **1163** **Macroclimatic drivers of ecosystem structure and function in mangroves, salt marshes and salt flats**
Laura Feher, U.S. Geological Survey





Thursday, June 8, 2017

Room 208A

CONTRIBUTED SESSION

9:55 am-11:35 am

Water Quality: Bioswales (Cook County, Illinois)

- 9:55 am-10:15 am **1543 Accumulation of metals in bioswale soils along I-294 in northern Cook County, Illinois**
Eric Plankell, Illinois State Geological Survey
- 10:15 am-10:35 am **1384 Reductions in total suspended solids and total dissolved solids in runoff treated by bioswales along I-294 in northern Cook County, Illinois**
Jessica Ackerman, Illinois State Geological Survey
- 10:35 am-10:55 am **1461 The effectiveness of bioswales in reducing the mass of contaminants in runoff from a major interstate highway, Cook County, Illinois, U.S.**
James Miner, Illinois State Geological Survey
- 10:55 am-11:15 am **1332 The effects of bioswale construction on groundwater adjacent to I-294 in northern Cook County, Illinois**
Keith Carr, Illinois State Geological Survey
- 11:15 am-11:35 am **1400 Using discharge characteristics to evaluate bioswale effectiveness in mitigating highway runoff impacts along I-294 in northern Cook County, Illinois**
Kathleen Bryant, Illinois State Geological Survey

SYMPOSIA

1:00 pm-2:50 pm

Remote Sensing of Wetland Structure, Dynamics and Function I

Moderators: Emanuelle Feliciano, NASA Goddard Space Flight Center - USRA; David Lagomasino, NASA Goddard Space Flight Center - USRA, Shimon Wdowinski, Florida International University

- 1:10 pm-1:30 pm **1533 Lost and found: Remote sensing as a tool to monitor restoration in mangrove forests**
David Lagomasino, Universities Space Research Association
- 1:30 pm-1:50 pm **1604 Monitoring tree island condition in the southern Everglades using bi-seasonal WorldView2 data and G-LiHT LiDAR**
Danielle Ogurcak, Florida International University
- 1:50 pm-2:10 pm **1505 High-resolution 3-D mapping of forest structure and carbon stocks in blue carbon ecosystems in the Americas, Africa and South Asia**
Lola Fatoyinbo, NASA Goddard Space Flight Center
- 2:10 pm-2:30 pm **1319 Using wetland InSAR for understanding underperformance of mangrove restoration plans in the Ciénaga Grande de Santa Marta, Colombia**
Fernando Jaramillo, Stockholm University
- 2:30 pm-2:50 pm **1191 Large scale mapping of mangrove forest height and above ground biomass using radar interferometry**
Marc Simard, NASA-Jet Propulsion Laboratory

3:10 pm-5:00 pm

Remote Sensing of Wetland Structure, Dynamics and Function II

Moderators: Emanuelle Feliciano, NASA Goddard Space Flight Center - USRA; David Lagomasino, NASA Goddard Space Flight Center - USRA, Shimon Wdowinski, Florida International University

- 3:20 pm-3:40 pm **1544 Multi-date, multi-sensor remote sensing approach and ground truthing reveals extensive carbon-dense mountain peatlands in the Páramo of Ecuador**
Erik Lilleskov, USDA Forest Service
- 3:40 pm-4:00 pm **1098 Amazonian floodplain forests and fisheries: New insights from combined remote sensing, field data and modeling**
Laura Hess University of California, Santa Barbara
- 4:00 pm-4:20 pm **1440 Assessing wetland vulnerability using multi-source remote sensing at NASA's Plum Brook Station**
Michael Battaglia, Michigan Tech Research Institute
- 4:20 pm-4:40 pm **1550 Observations across the land-to-ocean continuum: Cutting edge remote sensing deployments for wetland studies**
Erin Hestir, North Carolina State University
- 4:40 pm-5:00 pm **1299 A low-cost method to assess the effects of the BP Macondo oil spill on Louisiana salt marshes using space borne remote sensing** **WITHDRAWN**
Yu Mo, University of Maryland

