9th INTECOL
International Wetlands Conference
Wetlands in a Complex World

June 3-8, 2012
Orlando, Florida, USA

www.conference.ifas.ufl.edu/INTECOL
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WELCOME TO THE JOINT CONFERENCE OF:
9th INTECOL International Wetlands Conference, Society of Wetland Scientists (SWS) Annual Conference and Greater Everglades Ecosystem Restoration (GEER) Conference

On behalf of the Organizing Committee, we are delighted you are here to participate in the 9th INTECOL International Wetlands Conference, and we welcome you to the Conference and to the State of Florida. This conference is co-organized by the INTECOL-Wetlands Working Group, the Society of Wetland Scientists, and the Greater Everglades Ecosystem Restoration (GEER) Group. The 9th INTECOL wetlands conference provides a framework to discuss and share information on the physical, biogeochemical, and social sciences as they relate to wetlands, provides integrated solutions for sustainable management of wetland resources in a complex world, and facilitates collaboration on an international scale. Special emphasis will be placed on the influence of climate change on wetland biota, biogeochemical cycling, hydrology, carbon sequestration, greenhouse gases, salinity, water quality, and long-term storage of nutrients and contaminants. The overall theme for this conference is "Wetlands in a Complex World".

Wetlands exist at the interface between terrestrial and aquatic environments. Two billion acres (approximately 800 million hectares) of wetlands on Earth are spread throughout all climates except the Antarctica. Although wetlands occupy only about 6% of the total landscape, their overall role from the regional to global scale is much greater than their area. As for our Conference location, Florida is home for globally significant wetlands, with approximately 25% of land area in Florida occupied by wetlands. Florida is a global leader in restoration and conservation of wetlands as evidenced by a number of programs including the world's largest multi-billion dollar Greater Everglades wetlands restoration program. While many management practices are compatible, not all are adequate to protect wetland resources and sustain wetland values and functions. Climate change, in particular, is one of the major threats to sustainability and integrity of many ecosystems, including wetlands. Some questions of immediate concern are: (1) how will wetland ecosystem services be affected by changing climatic condition, and (2) are the current adaptive management practices used compatible or adequate to sustain, protect and preserve wetlands and wetland functions and values?

The INTECOL Wetland Working Group (WWG) formed at the International Congress of Ecology in Jerusalem, 1978, to encourage research, information sharing and scientific exchanges within the general area of wetland sciences. Held every four years ever since, the conference has since grown to the largest wetland meeting in the world. Previous conferences were held in New Delhi, India (1980); Trebon, Czechoslovakia (1984); Rennes, France (1988); Columbus, Ohio, USA (1992); Perth, Australia (1996); Quebec City, Canada (2000); Utrecht, The Netherlands (2004); and Cuiaba, Brazil (2008). The conference is truly an international event, and is only held every four years, with 2012 being the second time it is held in the United States.
The 9th INTECOL wetland conference features more than 1100 papers presented both as oral and poster presentations. Major keynote presentations themes of the conference include: climate change; ecosystem services; governance of large scale ecosystems and Global wildlife and wetlands; and wetland restoration and conservation. The program includes 156 sessions presented over a period 5 days. These papers are contributed by delegates from 45 countries, including international agencies and organizations, federal, state, and local governments, NGO’s, policy makers, water resource engineers and managers, environmental regulators, consultants, scientists, modelers, environmental interest groups, students and educators.

We sincerely thank the members of the Executive Advisory Committee and the International and National Scientific Committees for their work in promoting the programs and organizing and chairing special sessions. We would also like to thank everyone who organized or moderated a topical session and helped facilitate an incredible program agenda featuring a plethora of talks focusing on significant wetlands issues. Thanks also go to our field trip organizers and tour leaders for their efforts to present a variety of technical field trips showcasing wetlands and environmental ecosystems to interested attendees.

In addition to all of the programmatic efforts, it would not be possible to have a conference of this caliber without support from other organizations. The Organizing Committee is grateful to recognize the following for their financial support including: U.S. Geological Survey; National Park Service, Soil Science Society of America; Taiwan Wetland Society, the University of Florida; U. S. Department of Agriculture-Agricultural Research Service (ARS); Environ; LI-COR; Coastal Protection and Restoration Authority of Louisiana (CPRA); CH2M Hill; Tetra Tech, Turnbull and Associates, URS and others. We also appreciate the involvement of participating exhibitors and hope you will take time to visit each booth and learn more about these companies and organizations.

Last but not least, we would like to thank Beth Miller-Tipton, Angelica Williams, Mandy Stage, Jhanna Gilber, Shelby Sowder, Kim Brand, Ann Groover, Sharon Borneman, Greg Wilson and Lisa Thornton of the University of Florida’s IFAS Office of Conferences and Institutes (OCI) for their diligence and superb management of conference logistics and details. Not only do we appreciate their expertise in managing this conference, but for all previous Greater Everglades (GEER) conferences as well. The outstanding quality of their work is a key reason for the success of this and many other conferences.

We trust you will take advantage of every opportunity INTECOL provides throughout the week to view posters, attend keynote talks and program sessions, visit with exhibitors, interact with colleagues and make new connections at our networking functions.

On behalf of the entire planning committee, we as Conference Co-Chairs, welcome you to 9th INTECOL wetlands conference.

Sincerely,

Dr. Ramesh Reddy
University of Florida/IFAS

Dr. Ronnie Best
US Geological Survey

Dr. Glenn Guntenspergen
US Geological Survey

Past President, SWS
About INTECOL

In the 1960's and early 1970's the growing recognition of the importance of major ecological problems, in part arising from the International Biological Programme, led ecologists to seek greater international links. Some countries had long established national ecological societies, others had only young fledgling ones, but one way to foster international participation in helping to address important ecological questions was to establish a new international society. The national societies were very supportive of this move, and in 1967 the International Association for Ecology (INTECOL) was established. The first International Congress of Ecology was held in Hague in 1974. This proved a considerable success, and resulted in the series of congresses for which INTECOL is best known today.

Following the founding of the Association, specialist groups were established in various areas of ecology. These mostly operated by arranging independent meetings or through organizing sessions at the International Congresses. The best example is the Wetlands Working Group, which has run eight highly successful international conferences around the world, with the ninth taking place here in Orlando, Florida, USA, June 3-8, 2012.

The INTECOL Wetland Working Group (WWG) formed at the International Congress of Ecology in Jerusalem, 1978, to encourage research, information sharing and scientific exchanges within the general area of wetland sciences. About 40 people attended the first meeting. At the time there were no internationally based wetland ecology societies, journals or specialty meetings comparable to that available for other biomes like forests, oceans or grasslands. The major function of the WWG has been to organize an international meeting every four years, and to join the main body of INTECOL at that larger meeting in the years two years between.

This important conference series provides invaluable networking opportunities with key decision makers throughout the globe. Over the past three decades, the INTECOL International Wetlands Conference has grown its attendance and in 2012 will host close to 1,500 of the world leading scientists, making it one of the largest wetlands conferences in the world.

Previous Conferences:
- 1st INTECOL International Wetlands Conference: 1980, New Delhi, India
- 2nd INTECOL International Wetlands Conference: 1984, Trebon, Czechoslovakia
- 3rd INTECOL International Wetlands Conference: 1988, Rennes, France
- 4th INTECOL International Wetlands Conference: 1992, Columbus, Ohio
- 5th INTECOL International Wetlands Conference: 1996, Perth, Australia
- 6th INTECOL International Wetlands Conference: 2000, Quebec City, Canada
- 7th INTECOL International Wetlands Conference: 2004, Utrecht, The Netherlands
- 8th INTECOL International Wetlands Conference: 2008, Cuiab, Brazil
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South Dakota State University  
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Description: NL World is a not-for-profit group that provides environmental science and earth science education content and materials. CNL World provides formal and informal educators with opportunities to increase and enhance their knowledge and skills in the use of maps, and airborne and satellite imagery in the classroom. This is accomplished through the development of projects and programs for environmental and earth science oriented agencies and groups for professional, educational and general use.
Coastal Protection & Restoration Authority
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Description: The Coastal Protection and Restoration Authority's mandate is to develop, implement and enforce a comprehensive coastal protection and restoration Master Plan. For the first time in Louisiana's history, this single state authority will integrate coastal restoration and hurricane protection by marshalling the expertise and resources of the Department of Natural Resources, the Department of Transportation and Development and other state agencies, to speak with one clear voice for the future of Louisiana's coast. Working with federal, state and local political subdivisions, including levee districts, the CPRA will work to establish a safe and sustainable coast that will protect our communities, the nation's critical energy infrastructure and our bountiful natural resources for generations to come.

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Description: Established on the verge of the 21st century, Florida Gulf Coast University infuses the strengths of the traditional public university with innovation and learning-centered spirit, its chief aim being to fulfill the academic, cultural, social, and career expectations of its constituents. Outstanding faculty upholds challenging academic standards and balance research, scholarly activities, and service expectations with their central responsibilities of teaching and mentoring. Working together, faculty and staff of the University transform students’ lives and the southwest Florida region.

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Description: The National Park Service is a bureau of the Department of the Interior. The National Park System comprises 397 areas covering more than 84 million acres in every state (except Delaware). These areas include national parks, monuments, battlefields, military parks, historical parks, historic sites, lakeshores, seashores, recreation areas, scenic rivers and trails, and the White House. National parks contain many of our nation’s most treasured landscapes, from the majestic mountain ranges of Alaska to the vast sawgrass prairies of the Everglades. To safeguard these treasures, the National Park Service combines the best available science with innovative education and stewardship programs — protecting an astounding wealth of forests, seas, rivers, lakes, mountains, deserts, and grasslands for nearly 100 years.

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Description: Restore America’s Estuaries protects and restores the lands and waters essential to the richness and diversity of coastal life. Through our eleven member organizations, representing the largest estuaries in the U.S., we lead community-based coastal habitat restoration projects at scores of sites each year.

Please join us for the 6th National Conference on Coastal and Estuarine Habitat Restoration, October 20-24, 2012 in Tampa, FL. For more information, visit www.estuaries.org.
Society of Wetland Scientists
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Description: Since 1980, the Society of Wetland Scientists has maintained a thorough focus on its primary mission – to promote understanding, scientifically based management and sustainable use of wetlands. We are committed to providing meaningful resources that promote wetland education, conservation and restoration on a global level.

Soil Science Society of America (SSSA)
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Description: The Soil Science Society of America -- the premier organization devoted to soil science -- is a valuable component of your professional career. Membership benefits you by connecting with colleagues, attending meetings and presenting your research, publishing and keeping up-to-date with scientific information through publications and our new digital library, and gaining visibility through leadership opportunities. www.soils.org

Society of Wetland Scientists Professional Certification Program
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www.wetlandcert.org

Description: The Society of Wetland Scientists Professional Certification Program, serving the public’s needs to identify qualified individuals to assess and manage the Nation's resources. This program is intended to meet the needs of professional ecologists, hydrologists, soil scientists, educators, agency professionals, consultants, and other who practice wetland science.

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Description: Springer is a leading global scientific publisher, delivering quality content through innovative information products and services. Springer is proud partner of the Society of Wetland Scientists – publishing the society journal “Wetlands”. Browse our books and journals at the booth – and take a look at our eBooks and journals online. And don’t miss the chance to discuss your book proposal in person with Publishing Editor Catherine Cotton. More information: www.springer.com
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**Software for Mobile Wetland Data Collection**  
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Description: WetCollect is a next generation hosted software solution designed to accurately expedite data collection and processing of the U.S. Army Corps of Engineers Regional Supplement wetland determination forms. Designed by wetland scientists, WetCollect provides data point to print processing of the forms for quick and easy data documentation. Timmons Group, producer of WetCollect, is a leading provider of geospatial, information architecture, environmental and engineering services.

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Description: TEI specializes in providing cost-effective environmental solutions, and offers a complete range of services specific to restoration and construction activities in sensitive ecological communities. Our experience includes wetland restoration, enhancement, and creation, erosion control, earthwork, shoreline stabilization, and installation of weirs, culverts, and sheet piles. TEI provides clients with a combined 45 years of experience in the regulatory and environmental restoration field, numerous private and public agency contacts, and a well-earned (and maintained) reputation for quality, affordability, and commitment to customer service.

---

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Description: The University of Florida’s SFRC develops knowledge and educates citizens about managing and conserving natural resources. Additionally, Geomatics specializes in modern geospatial sciences and Fisheries and Aquatic Sciences emphasizes sustainable fisheries, aquaculture, and aquatic ecology and health. We offer graduate and undergraduate programs, as well as Distance Education to place-bound professionals and an expansive Extension program to aid and inform the general public.
University of Florida/IFAS, Soil and Water Science Department

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Description: The University of Florida’s Soil and Water Science Department (SWSD) provides highly visible leadership in teaching, research, and extension/outreach programs as related to improving the productivity of agriculture with environmentally sound management practices, improving water quality, and protection and conservation of natural resources. Our department is one of the few in the nation that offers a comprehensive research and educational program (molecular to landscape level) involving terrestrial, wetlands and aquatic ecosystems of the landscape. In addition to traditional on-campus educational programs, we use innovative e-technologies to offer educational programs to place-bound students. Our graduates and postdoctoral fellows are well placed at universities, state and federal agencies, and private industry. For more information about our department and online courses, please visit our web site.

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Description: The U.S. Army Corps of Engineers, Jacksonville District is part of a federal agency which specializes in the planning, engineering, construction and management of projects in Florida and the Antilles. The second largest civil works district in the nation, the Jacksonville District maintains an extremely complex water management system and by providing technical assistance to local governments. The Jacksonville District also heads one of the largest environmental restoration programs in the world, and is involved in several projects including the Upper St. Johns River, the Kissimmee River and the Florida Everglades. The Jacksonville District also serves as the agencies largest Regulatory program, primarily in the area of section 404 activities in waters of the United States.

US Army Corps of Engineers
Engineer Research and Development Center (ERDC)
Booth Number: 30 & 31
Timothy Lewis
3909 Halls Ferry Rd
Vicksburg, MS 39180, United States
PH: 601-634-2141
Email: timothy.e.lewis@usace.army.mil

Description: The Mission of the Engineer Research and Development Center (ERDC) is to provide science, technology, and expertise in engineering and environmental sciences in support of our Armed Forces and the Nation to make the world safer and better. The ERDC has been named the Army’s R&D Organization of the Year five of the last eight years.
US Army Corps of Engineers
Engineer Research and Development Center (ERDC)
Booth Numbers: 19 & 20
Sally Yost
3909 Halls Ferry Rd
Vicksburg, MS 39180, United States
PH: 601-634-3622
Email: Sally.L.Yost@usace.army.mil

Description: The mission of the U.S. Army Corps of Engineers Regulatory Program is to protect the Nation’s aquatic resources while allowing reasonable development through fair, flexible, and balanced permit decisions. The Corps evaluates permit applications for construction activities that occur in the Nation’s waters, including wetlands. The Wetlands Regulatory Assistance Program (WRAP), along with the U.S. Army Corps of Engineers Institute for Water Resources (IWR), supports the Corps Regulatory Program by providing current scientific and engineering technology for identifying wetlands, assessing impacts, and evaluating mitigation approaches to restore, enhance, create and preserve aquatic functions and values.

US Geological Survey
Booth Number: 11, 12 & 13
Heather Henkel
Email: hhenkel@usgs.gov

Description: The US Geological Survey serves the Nation by providing reliable scientific information to describe and understand the Earth; minimize loss of life and property from natural disasters; manage water, biological, energy, and mineral resources; and enhance and protect our quality of life. By integrating our diverse scientific expertise, the USGS is able to understand complex natural science phenomena and provide scientific products that lead to solutions. The Nation’s largest water, earth, and biological science and civilian mapping agency, USGS collects, monitors, analyzes, and provides scientific understanding about natural resource conditions, issues, and problems. The diversity of our scientific expertise enables us to carry out large-scale, multi-impartial scientific information to resource managers, planners, and other customers.

USDA - Natural Resources Conservation Service
Booth Numbers: 3 & 4
Gail Hendricks
2614 NW 43rd St.
Gainesville, FL 32606, United States
PH: 352-338-9560 | FX: 352-338-9574
Email: gail.hendricks@fl.usda.gov

Description: The Natural Resources Conservation Service (NRCS) works hand in hand with America’s private landowners to improve and conserve their natural resources. We pride ourselves in working on-the-ground with the people and communities we serve to promote the stewardship of our Nation’s air, water, soil and wildlife for now and for generations to come.
Conference Organizers

Dr. G. Ronnie Best, Conference Co-Chair

Dr. Best is Coordinator of U.S. Geological Survey’s Greater Everglades Priority Ecosystems Science. Dr. Best retired from University of Florida’s College of Engineering where he was Director of UF’s Center for Wetlands & Water Resources and a faculty member of the Environmental Engineering Sciences Department. Dr. Best joined the federal service in 1995 as Chief of the Wetlands Ecology Branch at USGS’s National Wetlands Research Center (NWRC, Lafayette, LA). In 1997, he moved to south Florida and he has served as Coordinator of USGS’s Greater Everglades Science since 2001. Dr. Best conceived of and initiated the Greater Everglades Ecosystem Restoration (GEER) Conference(s) and the National Conference(s) on Ecosystem Restoration (NCER). Dr. Best has over three decades of research and teaching experience in the area of ecology, ecological engineering, and restoration and management of wetlands, most of which has been in Florida. He has over 70 publications including book chapters, technical reports, and journal publications; he was co-editor of a book on the Okefenokee Swamp and co-edited a special issue publication on Biogeochemistry of the Greater Everglades. While at UF, he taught and researched wetlands ecology and ecological engineering, while serving as major advisor to over 45 graduate students and on committees for over 120 graduate students. Dr. Best has Adjunct Professor appointments with University of Florida and Florida Atlantic University where he continues to serve on graduate student committees and occasionally lectures in classes. Dr. Best received his Ph.D. and M.S degrees from University of Georgia’s Institute of Ecology and Botany Department.

Dr. Glenn Guntenspergen, Conference Co-Chair

Dr. Guntenspergen is a Landscape Ecologist with the U.S. Geological Survey’s Patuxent Wildlife Research Center. He received a B.S. and M.S. from the University of Illinois in Biology/Zoology and a Ph.D. in Plant Ecology from the University of Wisconsin (Milwaukee). He began his professional career as a Research Associate in the Botany Department at Louisiana State University and subsequently worked for the U.S. Fish and Wildlife Service’s National Wetland Research Center and Northern Prairie Science Center studying Gulf of Mexico and Prairie Pothole wetlands before joining the USGS. He collaborates on research projects with scientists throughout North America and overseas. He has published over 80 peer-reviewed journal articles and book chapters. His current research focuses on responses of wetland ecosystems to climate change, the regional and landscape implications of spatial heterogeneity on plant community organization and structure, developing decision support systems to guide the management of natural resources, and identifying ecological thresholds in aquatic systems. He is the editor of the journal Urban Ecosystems and co-editor of the book “Urban Ecology: patterns, processes, and applications” published by Oxford University Press. From 2010-2011, he served as President of the Society of Wetland Scientists.
Dr. K. Ramesh Reddy, Conference Co-Chair

Dr. Reddy is a Graduate Research Professor and Chair of the Soil and Water Science Department (SWSD) at the University of Florida (UF). Dr. Reddy’s areas of expertise and research include: biogeochemistry, soil and water quality, and ecosystem restoration. Dr. Reddy carried out research for 35 years on biogeochemical cycling of nutrients in natural and managed ecosystems as related to water quality. His early research as a biogeochemist focused on the fate of nutrients in flooded rice paddies, followed by applying biogeochemical principles to study nutrient/contaminant behavior in various ecosystems including freshwater and coastal wetlands, and lakes, as related to water quality and eutrophication. Dr. Reddy developed an interdisciplinary program on biogeochemistry of wetlands and aquatic systems, through the Wetland Biogeochemistry Laboratory (WBL) established within the SWSD. Since its establishment in 1987, the WBL has provided a home for graduate students for various disciplines, and post doctoral associates and visiting scientists. Examples of teaching, research, and extension activities of the WBL can be seen at the web site: http://wetlands.ifas.ufl.edu. Dr. Reddy published more than 350 refereed journal articles and book chapters, edited five books, and authored one text book. He has served on numerous advisory committees at state, national, and international levels. Dr. Reddy’s select awards and honors include: UF-Graduate Research Professor, UF-Research Foundation Professor (1999-2002; 2009-2012); Doctoral Dissertation Advisory /Mentoring Award (2005); Fellow, World Innovation Foundation; Environmental Quality Research Award, American Society of Agronomy (2002); Sigma Xi Senior Faculty Research Award (2002); Soil Science Applied Research Award, Soil Science Society of America (2001); Fellow, American Association for the Advancement of Science; Fellow - Soil Science Society of America (1988); Fellow - American Society of Agronomy (1988); Gama Sigma Delta International Award (2006).

R. Eugene Turner, Chair, INTECOL Wetlands Working Group

Dr. Turner is a Chaired Professor and Distinguished Research Master at Louisiana State University, and faculty member in the Department of Oceanography and Coastal Sciences. He received a B.A. degree from Monmouth College (Ill.), a M.S. degree from Drake University (Biology), and a Ph.D. from the University of Georgia (Ecology). He is Chairman, INTECOL Wetlands Working Group, Executive Board Member of INTECOL, serves on national scientific committees, is Honorary Editor-in-Chief of Wetlands Ecology and Management, and is active in the scientific aspects of coastal environmental management, including the low oxygen zone off the Mississippi River (the DEAD ZONE) and wetland conservation, restoration and management. He is a recipient of the National Wetland Award (1998) and, with Nancy Rabalais, of the 1999 Blasker Award for Science and Engineering for their work on the hypoxic area in the northern Gulf of Mexico (Dead Zone). His most recent book project is Sustainability Science: The Emerging Paradigm and the Urban Environment (Weinstein, M.P. and R.E. Turner (eds.), Springer, 2012).
Plenary Speaker Biographies

Dr. Thomas Armstrong joined the White House Office of Science and Technology Policy as the Executive Director of the U.S. Global Change Research Program, a $2.6 Billion annual program across thirteen different Federal agencies focused on understanding and responding to global change and its impacts. Prior to this, Tom served as the Department of the Interior’s (DOI) Senior Advisor for Climate Change and has been a key figure in the implementation of Secretary Salazar’s Executive Order on climate change (S.O. 3289), as well as in the development of the Department’s climate change-related policies, organizational elements and budget strategies. On the international front, Tom serves as the Chair of the Sustained Arctic Observing Networks (SAON) and also as the U.S. Head of Delegation to the Arctic Council’s Arctic Monitoring and Assessment Programme (AMAP). Dr. Armstrong also served as the Vice-Chair for Adaptation Science on the CENRS Subcommittee on Global Change. Prior to that, Dr. Armstrong was the Principal for DOI to the United States Global Change Research Program for six years. Some of his other responsibilities have included serving as the Senior Advisor for Global Change Programs at the U.S. Geological Survey, the DOI lead for the World Climate Conference, Associate to the Chair for development of the Committee on Earth Observation Satellites (CEOS) response to Global Climate Observing System (GCOS) Implementation Plan, a United States delegate for the United Nations Framework Council on Climate Change, advisor on DOI’s International Polar Year activities, a DOI principal to the CEQ-OSTP-NOAA Climate Change Adaptation Taskforce, and as Chair of the Science Committee for the Department of the Interior’s Climate Change Task Force. Tom has also participated in numerous testimonies and briefings to various Congressional Committees and high-level briefings for DOI at various international forums regarding climate change, adaptation and circum-Arctic activities.

Dr. Richard Beilfuss has engaged in wetland conservation and restoration from a landscape perspective in Africa, Asia, and North America for more than 25 years. Beilfuss and colleagues spearheaded long-term term restoration efforts in the Lower Zambezi River and Delta of Mozambique, the Mekong Delta of Vietnam, and the Wisconsin River basin in the US. He has contributed to wetland research and management projects in the US, China, Nepal, Vietnam, Iraq, and more than a dozen countries in sub-Saharan Africa. He has a PhD in Land Resources, MSE in Civil and Environmental Engineering, and MSc in Water Resources Management from the University of Wisconsin-Madison.

Beilfuss currently serves as CEO & President of the International Crane Foundation (ICF), a non-government, non-profit conservation organization headquartered in Wisconsin with offices in South Africa, India, and China. From 1993-2005, he developed and directed the International Crane Foundation/Endangered Wildlife Trust Africa Program, which received the Rolex Enterprise Award for their pioneering work in creating a network of conservationists across eleven range countries of the endangered Wattled Crane, a flagship species for sustainable water management. From 2005-2008 Beilfuss moved with his family to Mozambique to serve as Director of Scientific Services for the Gorongosa National Park Restoration Project under the Carr Foundation.

Beilfuss is an Adjunct Professor for the University of Wisconsin-Madison College of Engineering and the University of Eduardo Mondlane in Mozambique, where he teaches graduate courses on environmental flows for sustainable water management, and enjoys supervising students.

He is a Licensed Professional Hydrologist and was appointed to the Wisconsin State Examining Board of Professional Geologists, Hydrologists, and Soil Scientists.
Rich lives with his wife Katie (of the Wisconsin Wetlands Association) and their two sons, Ian and Theo, in Madison, Wisconsin. He is an avid runner, wetland-stomper, and dart-thrower, but not all at the same time. -- www.savingcranes.org

Dr Brij Gopal (born March 1944), former Professor of Environmental Science at the Jawaharlal Nehru University, New Delhi (1996-2009), is currently setting up a Centre for Inland Waters in South Asia under the aegis of the National Institute of Ecology. He studied Botany for his Master’s degree (Agra University, 1964) and obtained his Ph.D. in plant ecology from Banaras Hindu University, Varanasi (1968). After serving as a post-doctoral fellow in forest ecology, he taught at Agra College (1970-71) and Rajasthan University (1972-85) before moving as Associate Professor at the JNU in 1986. He was a Humboldt Fellow in Germany during 1982-83 and later, a Visiting Professor at the Geobotany Institute of Swiss Federal Institute of Technology, Zurich (1984).

Dr Gopal’s major contributions cover the ecology of many aquatic and wetland plants including invasive species such as water hyacinth; community and ecosystem level studies of all kinds of aquatic ecosystems from high altitude lakes to floodplains, coastal lagoons and mangroves, assessment of aquatic biodiversity, economic valuation and conservation, restoration and management of rivers, lakes and wetlands in a river basin perspective. He considered also the traditional management by local communities, socio-economic aspects, climate change and issues related to policies and law in the context of integrated water resources management for sustainable development. Among the students working with him, 17 obtained their PhD degree and 12 students received MPhil degree. His 200 research/review papers and 40 authored or edited books include many in collaboration with eminent scientists such as R.E. Turner, Dennis Whigham, Robert G. Wetzel, B.C. Patten, Wolfgang J. Junk, W.J. Mitsch, Jan Kvet, David Mitchell and Max Finlayson among several others. He was one of the lead authors of the chapter on Ecosystems for the IPCC’s Fourth Assessment Report (2007).

As a member of many Committees of the Ministry of Environment & Forests, the Ministry of Water Resources, and several state governments, for their programmes on river, lake and wetland conservation, he has advocated the importance of catchments, floodplains, and environmental flows in the rivers, and the river basin approach to the management of water resources, largely based on his studies on river Yamuna. He was a Member of the Committee for drafting the Wetland Conservation and Management Rules, a member of EAC on mining projects, the expert group on lake conservation. He is a Member on the Council on Climate Change of the Govt of Himachal Pradesh.

He has been associated (as chairman and/or member of the Research Advisory Committees and Quinquennial Review Teams) with several Fisheries Institutes of the Indian Council of Agricultural Research. He organized the INTECOL’s first international conference on wetlands in New Delhi (1980) and has been associated with the wetland programs of many organisations, including UNESCO, UNEP, SCOPE, IUBS, ICIMOD and WWF. He serves on the editorial boards of several international journals on rivers, lakes and wetlands. He was Secretary General of the National Institute of Ecology for 3 decades (1978-2008) before being elected as its Vice President. Currently, Dr Gopal is a Member of the Board of Directors of the International Society for River Science, and the Executive Vice President of the International Society of Limnology (SIL).

His few awards include the International Fellow award (1997) of the Society of Wetland Scientists and the Naumann-Thienemann Medal (2004) of the International Association of Limnology (SIL). Currently, he is also a Member of the International Scientific Committee of the Brazilian National Institute for Wetland Science and Technology (INAU).
**Senator Bob Graham** is the former two-term governor of Florida and served for 18 years in the United States Senate. This is combined with 12 years in the Florida legislature for a total of 38 years of public service. Bob Graham retired from public service in January 2005, following his Presidential campaign in 2004.

Bob Graham is recognized for his leadership on issues ranging from education, economic development, healthcare, environmental preservation and his service on the Senate Select Committee on Intelligence — including eighteen months as chairman in 2001–2002.

After retiring from public life, Senator Graham served for a year as a senior fellow at the Harvard Kennedy School of Government.

In May of 2010, Senator Graham was appointed by the President to serve as Co-Chair of the National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling. This followed his service as a Commissioner on the Financial Crisis Inquiry Commission and as the Chairman of the Commission on the Prevention of Weapons of Mass Destruction Proliferation and Terrorism. Currently he serves as chairman of the WMD Center, a 501c3 not for profit research organization which continues the work of the Commission.

Senator Graham also serves as a member of the CIA External Advisory Board, as a member of the board of directors of several companies and as the chair of the Board of Overseers of the Bob Graham Center for Public Service at the University Florida.

Senator Graham is also the author of several books including “America: The Owner’s Manual,” which teaches the skills of civic participation, and “Keys to the Kingdom,” a novel of suspense which draws upon his background in government and intelligence.

**Jan Květ** (born in 1933) is a well known ecologist who has worked in the field of wetlands ecology and, especially, production ecology of wetland plants and vegetation since 1965. He spent a lot of time and effort on organizing both national and international wetland-related research and conservation activities.

About 125 scientific publications contain the results of his research in wetlands ecology and that of other ecosystem types. Among the 10 books co-edited and co-authored by him are: *Pond Littoral Ecosystems. Structure and Functioning* (Springer, 1978), *Studies on Shallow Lakes and Ponds* (Academia, Prague, 1986), *The Production Ecology of Wetlands* (Cambridge Univ. Press, 1998) and *Freshwater Wetlands and their Sustainable Future* (UNESCO, 2002). He was co-founder of the Wetlands Working Group within the International Biological Programme (IBP), which was later transformed into INTECOL’s Wetlands Working Group. He co-organized the 2nd International Wetlands Conference at Třeboň, Czechoslovakia, in 1984.

Jan Květ, who graduated in plant anatomy and physiology from the Charles University in Prague in 1956 and got his Ph.D. in botany from the Czech Academy of Sciences in 1964, for most of his professional life (1956-2002), he was employed by the Czechoslovak (Czech since 1993) Academy’s of Sciences Institute of Botany, successively at its branches in Průhonice near Prague, Brno and Třeboň. He has served on numerous both international and national committees, starting from the IBP, through INTECOL and SCOPE to UNESCO’s Man and Biosphere Programme (MAB) and the Ramsar Convention. In 1990-92, he was a member of the first freely elected Czech Parliament after the 1989 “Velvet Revolution”; in this capacity, he substantially contributed to the elaboration of the progressive Czech Republic’s Act on Nature and Landscape Conservation (1992). As faculty member of the University of
Bohemia in České Budějovice since 1993, he has introduced the teaching of several new courses. Among them is also that on Wetlands Ecology; it was the first course of its kind in the Czech Republic.

His merits in scientific research, university teaching and civic nature conservation-oriented activities have been acknowledged both nationally and internationally. He is – together with the late Dagmar Dykyjová - recipient of the International Fellowship Award of the SWS and a life member of the SWS (2001), and was awarded the Recognition of Excellence by the Ramsar Convention (2008). He is also a member of the Learned Society of the Czech Republic and corresponding member of the Austrian Academy of Sciences.

Jack M. Payne is the Senior Vice President for Agriculture and Natural Resources at the University of Florida. Appointed senior vice president in June, 2010, Payne is the administrative head of the Institute of Food and Agricultural Sciences (IFAS) which includes the College of Agricultural and Life Sciences, a portion of the College of Veterinary Medicine, the School of Natural Resources and the Environment, the School of Forest Resources and Conservation, the Florida Agricultural Experiment Station, 13 Research and Education Centers throughout Florida, the Florida Sea Grant Program, and the Florida Cooperative Extension Service with offices in each of the state’s 67 counties.

Prior to his current position he served as the Vice President for Extension and Outreach at Iowa State University and before that was the Vice President and Dean for University Extension at Utah State. Jack also has experience at two other land-grant institutions: Pennsylvania State University, where he served on the faculty of the School of Forest Resources, and, later, at Texas A&M University, where he served as a faculty member in the Fisheries and Wildlife Department.

After leaving Texas A&M University, Payne had a long career with Ducks Unlimited (DU), as their National Director of Conservation. While at Ducks Unlimited, some of his successes included the development of DU’s private lands program with agriculture, the development of a national conservation easement program and the expansion of their Mexican program to Central and South America.

Payne received his M.S. in Aquatic Ecology and his Ph.D. in Wildlife Ecology from Utah State University and is a graduate of the Institute for Educational Management at Harvard University. He is a tenured professor in the Department of Wildlife Ecology and Conservation at the University of Florida. Jack recently finished his term as the Chair of the Policy Board of Directors for the Board on Agriculture Assembly, Association of Public and Land-grant Universities.

Professor Stephen Polasky holds the Fesler-Lampert Chair in Ecological/Environmental Economics at the University of Minnesota where he is a member of the Department of Applied Economics and the Department of Ecology, Evolution and Behavior. He is also a Faculty Fellow at the Institute on the Environment and a graduate faculty member of the Conservation Biology, Water Resources, and Natural Resource Science and Management Graduate Programs. He received a Ph.D. in Economics from the University of Michigan in 1986 and a B.A. from Williams College in 1979. He previously held faculty positions in the Department of Agricultural and Resource Economics at Oregon State University (1993-1999) and the Department of Economics at Boston College (1986-1993). He served as Senior Staff Economist for environment and resources for the President’s Council of Economic Advisers 1998-1999.
His research focuses on issues at the intersection of ecology and economics. His research interests include impacts of land use and land management on the provision and value of ecosystem services, natural capital, biodiversity conservation, and sustainability. He recently co-authored a book *Natural Capital: Theory and Practice of Mapping Ecosystem Services*. He contributed to the Millennium Ecosystem Assessment, a National Research Council Committee on valuing ecosystem services, a US EPA Science Advisory Board Committee on Valuing the Protection of Ecosystems and Services, and The Economics of Ecosystems and Biodiversity (TEEB). He has also worked on issues involving renewable energy, renewable and exhaustible resources, environmental regulation, and common property resources.

He serves on the Governing Board of the Natural Capital Project, the Science Advisory Board of the US Environmental Protection Agency, the Board of Directors for the Beijer Institute of Ecological Economics, and the Board of Directors and the Science Council of The Nature Conservancy. He is a University Fellow at Resources for the Future, a Research Fellow at the Beijer Institute of Ecological Economics, and a Research Associate in the Environmental & Energy Economics Program at the National Bureau of Economic Research. He was elected into the National Academy of Sciences in 2010. He was elected as a Fellow of the Association of Environmental and Resource Economists in 2011, the American Academy of Arts and Sciences in 2009, and the American Association for the Advancement of Science in 2007.

**Stefan Rahmstorf**

After studying physics at the Universities of Ulm and Konstanz and physical oceanography at the University of Wales (Bangor) Stefan Rahmstorf completed a thesis on general relativity theory. He then moved to New Zealand and obtained his PhD in oceanography at Victoria University of Wellington in 1990. His PhD work included a number of research cruises in the South Pacific.

After this he worked as a scientist at the New Zealand Oceanographic Institute, at the Institute of Marine Science in Kiel and since 1996 at the Potsdam Institute for Climate Impact Research. His work there focuses on the role of ocean currents in climate change.

In 1999 Rahmstorf was awarded the $ 1 million Centennial Fellowship Award of the US-based James S. McDonnell foundation. Since 2000 he teaches *Physics of the Oceans* as a professor at Potsdam University. Rahmstorf is a member of the *Academia Europaea* and of the *German Advisory Council on Global Change* (WBGU). He is also one of the lead authors of the 4th Assessment Report of the IPCC. In 2007 he became an *Honorary Fellow of the University of Wales* and in 2010 a Fellow of the American Geophysical Union.

He has published over 70 scientific papers (14 of which in *Nature* and *Science*) and co-authored four books. Available in English is *Our Threatened Oceans* (2009, with Katherine Richardson) and *The Climate Crisis* (2010, with David Archer).

**Popular books:**

_Wolken, Wind und Wetter (Die Kinderuni)_

_The Climate Crisis_

*Our Threatened Oceans / Wie bedroht sind die Ozeane?*_

_Der Klimawandel*_
Lynn Scarlett

Former Deputy Secretary of the U.S. Department of the Interior, Lynn Scarlett is Visiting Scholar and Co-Director of the Center for Management of Ecological Wealth at Resources for the Future working on issues pertaining to ecosystem services, landscape-scale conservation, and climate adaptation. She served as Zurich Financial Services Distinguished Visiting Lecturer at the University of California, Bren School of Environmental Science and Management in October 2009. She took her post as Deputy Secretary and Chief Operating Officer of the U.S. Department of the Interior in 2005 after having served 4 years as the Department’s Assistant Secretary for Policy, Management and Budget. She served as Acting Secretary of the Department for two months in 2006. Ms. Scarlett initiated Interior’s Cooperative Conservation Task Force in 2002 and chaired the Department’s Climate Change Task Force. She is the author or co-author of recent publications on climate change adaptation; urban greening; large landscape conservation; offshore oil issues; science and decision making, and ecosystem services. She serves on the National Research Council Sustainability Linkages Committee and their U.S. Global Change Research Program Committee. She received her B.A. and M.A. in political science from the University of California, Santa Barbara, where she also completed her Ph.D. coursework and exams in political science. An avid hiker, Scarlett is Chair of the Board of Trustees of the American Hiking Society. Also an avid birder, she serves on the board of the National Wildlife Refuge Association. She also serves on the boards of the nonprofit environmental mediation organizations RESOLVE and the Consensus Building Institute. She is a trustee emeritus of the Udall Foundation. [Website: www.lynnscarlett.com ]

Dave White has served as Chief of the Natural Resources Conservation Service (NRCS) for the past three years. As Chief, he oversees programs that help protect the environment and preserve our natural resources through voluntary, private lands conservation. He leads a staff of 12,000 employees across the country and manages a budget of more than $4 billion.

White’s career with NRCS has spanned 35 years. From 2002 to 2008, he served as the NRCS State Conservationist in Montana where he led efforts to help farmers and ranchers improve agricultural production while reducing their environmental impact. For much of 2007 and 2008, he was detailed to Iowa Senator Tom Harkin’s office in Washington, D.C., where he helped the Senate Committee on Agriculture, Nutrition & Forestry craft the conservation title of the 2008 Farm Bill.

White’s earlier positions include work as an NRCS Conservation Aid; service as NRCS’ Director of Congressional Relations; and two details on the staff of Indiana Senator Richard Lugar, supporting agriculture committee work on energy and the 2002 Farm Bill. He also served as Director of Communications for the White House Task Force for Livable Communities.

White is a graduate of the University of Missouri where he studied agriculture. He and his wife live in Charlottesville, Virginia and have a grown son and daughter.
Whither Wetland Conservation? A View from Developing Countries

Brij Gopal
National Institute of Ecology, Jaipur

Historically, wetlands laid the foundation of human civilisation and were an integral part of the socio-cultural ethos of human societies in many regions of the world. Natural wetlands were drained and reclaimed extensively first in Europe and North America. It is largely during the colonial period that wetlands were degraded or lost in Asia and Africa where the pressures for economic development in the post-colonial period accelerated the degradation. Yet, while the local communities in developing countries managed wetlands for subsistence and livelihoods, concern for wetlands was raised from the viewpoint of conservation of the avian species first in the ‘developed’ countries. The conservation efforts gained a momentum soon after the once ‘wastelands’ were discovered to be ‘liquid assets’ and ‘waterlogged wealth’. The emergent wetland science placed these ‘ecosystems’ on a high pedestal bringing into focus the need for their conservation worldwide for their many ecological functions. The developing countries soon started rallying around the Ramsar Convention, sometimes vying with each other for attention. Today, only a couple of developing countries with significant wetland habitats have yet to join the Ramsar Convention.

In recent years, much has been talked and published about distribution and kinds of wetlands, their ecosystem characteristics and services, causes and threats to their loss and degradation and needs for policies, strategies and governance for their conservation and even restoration in most of the developing countries. Yet in reality, there is hardly little, often isolated, effort to develop indigenous wetland science that is needed for understanding the functioning of wetlands and their responses to anthropogenic disturbances under local conditions. Few countries have a comprehensive wetland inventory that also accounts for the biodiversity, functions and ecological character. The distinction between the natural, man-modified and man-made wetlands has been so blurred that it is impossible to set objectives and formulate strategies for conservation. Floodplain wetlands are degraded or lost at the cost of upstream reservoirs that are treated as important wetlands. So are the backwaters and mangroves getting converted into paddy fields and shrimp farms which also now deserve conservation. Only a handful of developing countries have developed specific policies aimed at protecting and conserving wetlands, and even the existing policies and laws are not fully and properly implemented. Whereas over-exploitation of wetland resources, pollution, reclamation and invasive species are widely discussed as major threats, little attention is paid to the hydrological alterations throughout the catchments, and the role of trade, industry, cash crops and globalisation is rarely considered and always underestimated. Conservation in most countries is largely symbolic as a few iconic wetlands receive some attention while conflicting approaches to land and water management ignore the vast majority of wetlands. In such a scenario, restoration of degraded wetlands is a far cry, despite some noteworthy attempts.

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Interactions between Human Activities and the Structure and Functioning of Wetland Ecosystems

Jan Květ¹,³, Hana Čížková²,³ and Martina Eiseltová⁴

¹University of South Bohemia, Faculty of Science, České Budějovice, Czech Republic
²University of South Bohemia, Faculty of Agriculture, České Budějovice, Czech Republic
³Czech Academy of Sciences, CzechGlobe, Center for Global Change Research, Brno, Czech Republic
⁴Crop Research Institute, Praha 6 – Ružyně, Czech Republic

Structure and functioning are inseparable attributes of any ecosystem. This naturally also holds true for wetlands, both those forming land-water ecotones and those that are independent of any water body and depend on either groundwater supply or precipitation (rain- and snowfall), or both. The responses of the structure and functioning of these wetlands to various kinds of their management, conservation and restoration are in the focus of our presentation.

From various case studies, we have chosen examples of human management impacts on the spatial and trophic structure and associated processes, in such temperate freshwater wetlands as the littoral zones of both natural and constructed lakes, among them especially fish ponds. Other examples concern the wet grassland and mires (bogs and fens). Particular attention is paid to the effects of agricultural activities and fish farming on structural and functional attributes of these wetlands. When they are suitably managed, all of these wetlands can play a prevailingly positive role in sustainable management of agricultural landscapes.

The functioning of wetland ecosystems dealt with in this contribution is largely determined by such processes as the energy flow, water balance, carbon and nutrient uptake and accumulation, and the resulting growth and primary production of wetland vegetation. These processes are naturally projected into the species variety and diversity of the wetland ecosystems considered. So are also the actual or potential human impacts on important functional relationships between wetland plant and animal populations or communities. Steering of either the bottom-up or the top-down control of ecosystem structure and functioning is a powerful management tool in certain wetlands, e.g., fish ponds. Attention is also paid to both intentional and unintentional human impacts on structural and functional adaptations of wetland plants and animals to their respective habitats modified by human activities.

Finally, thoughts are given to the applicability of the concept of sustainable ecosystem services to defining desirable, tolerable or undesirable human impacts on wetlands, especially those used as examples in this contribution.

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Valuing Nature: Incorporating Ecosystem Services into Decision-Making

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Department of Applied Economics / Department of Ecology, Evolution and Behavior,
University of Minnesota, St. Paul, MN, USA

Human society depends on vital goods and services provided by ecosystems but human actions are eroding the natural capital that underlies the provision of ecosystem services. Understanding how human actions impact the value of ecosystem services requires understanding the links between: a) human actions and impacts on ecosystem functions, b) ecosystem functions and the provision of ecosystem services, and c) the contribution of ecosystem services to human well-being. Making these links requires spatially explicit mapping of the provision of ecosystem services and the value of those services to beneficiaries. In this talk I will use recent examples of integrated analysis on land use choices in Minnesota, Hawaii and Oregon to illustrate how human actions affect the provision and value of various ecosystem services, and how such information could be used in a policy or management context.

Contact Information: Stephen Polasky, Fesler-Lampert Professor of Ecological/Environmental Economics
Fax: 612-625-2729, Email: polasky@umn.edu
Section-Organized Symposia and Section-Sponsored Sessions

SWS Sections are dedicated to organizing and sponsoring high-quality events at the annual meeting, including plenary speakers, symposia and receptions. Consider attending one of these events, joining an existing section or forming a new section that promotes your professional interests.

BIOGEOCHEMISTRY SECTION

**Tuesday, June 5**
10:30 pm – 5:00 pm  
*Measurement of Greenhouse Gas Emissions from Wetlands*  
(Sessions 44, 56, 68; Bonaire 7/8)

**Thursday, June 7**
10:30 pm – 3:00 pm  
*Phosphorus – The Ultimate Limiting Element – from Cells to Communities*  
(Sessions 113, 125; Bonaire 1/2)

10:30 pm – 5:00 pm  
*Salinization of Freshwater Wetlands* (Sessions 115, 127, 139; Bonaire 5/6)

1:30 pm – 5:00 pm  
*Methane Dynamics in Peatland Ecosystems* (Sessions 126, 138; Bonaire 3/4)

GLOBAL CHANGE ECOLOGY SECTION

**Wednesday, June 6**
3:30 pm – 5:00 pm  
*Blue Carbon: Green Opportunities* (Session 103; Bonaire 5/6; part 1 of 4)

5:30 pm – 7:30 pm  
*Global Change Ecology section & Coastal Blue Carbon reception* (Boca 5/6)

**Thursday, June 7**
10:30 am – 12:00 pm  
*Science of Blue Carbon* (Session 109; Grand Sierra Ballroom B)

1:30 pm – 3:00 pm  
*Policy, Economics and Management of Blue Carbon* (Session 121; Grand Sierra Ballroom B)

3:30 pm – 5:00 pm  
*Blue Carbon Projects* (Session 133; Grand Sierra Ballroom B)

PEATLAND SECTION

**Monday, June 4**
1:30 pm – 3:00 pm  
*Patterns and Drivers of Peatland Carbon Storage* (Session 23; Curacao 5/6)

3:30 pm – 5:00 pm  
*Impact of Peatland Fires on Ecosystem Function and Feedbacks to Climate: A Global Perspective*  
(Session 10; Curacao 3/4; part 1 of 2)

**Tuesday, June 5**
10:30 am – 12:00 pm  
*Impact of Peatland Fires on Ecosystem Function and Feedbacks to Climate: A Global Perspective*  
(Session 46; Curacao 3/4; part 2 of 2)

12:30 pm – 1:15 pm  
*Peatland Section Meeting* (Boca 3)
SWS Sections are dedicated to organizing and sponsoring high-quality events at the annual meeting, including plenary speakers, symposia and receptions. Consider attending one of these events, joining an existing section or forming a new section that promotes your professional interests.

**Ramsar Section**
*Monday, June 4*
10:30 am – 3:00 pm
*The Ramsar Convention and SWS – Linking Science to International Policy* (Sessions 10, 22; Curacao 3/4)

**Wildlife Section**
*Wednesday, June 6*
1:30 pm – 3:00 pm
*Wetland Fauna* (Session 93; Curacao 1/2)
*Friday, June 8*
10:30 am – 12:00 pm
*Wildlife in Greater Everglades & Coastal Ecosystems* (Session 152; Bonaire 7/8)

**Women in Wetlands Section**
*Tuesday, June 5*
7:30 am – 9:00 am
*Women in Wetlands Section breakfast* (Boca 5/6)
10:30 am – 12:00 pm
*Success Strategies for Graduate School and Beyond* (Session 45; Curacao 1/2)
2012 Society of Wetland Scientists meetings

*Wetlands in a Complex World* annual meeting schedule

**SUNDAY, JUNE 3**

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<th>Time</th>
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| 6:00 pm – 7:00pm | Boca 1 | Student Mentoring Program orientation  
*By invitation only.* |
| 8:30 am – 5 pm   | Boca 5  | SWSPCP Board of Directors meeting                                      |

**MONDAY, JUNE 4**

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<th>Time</th>
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| 6:30 am – 8:00 am | Boca 6 | SWS/SWSPCP Past President’s breakfast  
Organization leaders are invited to network and discuss future group initiatives. *By invitation only.* |
| 10:30 am – 12:00 pm | Boca 1 | Student Mentoring Program workshop  
Graduate School and Academic Careers. |

**TUESDAY, JUNE 5**

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| 7:30 am – 9:00 am | Boca 5/6 | Women in Wetlands section breakfast  
Alesia Pierre-Louis, Chief of the USGS Office of Equal Opportunity, will discuss “Graduate School and Beyond.”  
*Pre registration required.* |
| 12:30 pm – 1:30 pm | Boca 2 | South Atlantic chapter meeting                                      |
| 12:30 pm – 1:15 pm | Boca 3 | Peatland section meeting                                              |
| 4:00 pm – 5:00 pm   | Boca 3  | South Central chapter meeting                                        |
| 4:00 pm – 5:00 pm   | Boca 4  | European chapter meeting                                              |
| 5:00 pm – 5:30 pm   | Boca 5/6 | Rocky Mountain chapter meeting                                       |
| 5:00 pm – 6:00 pm   | Boca 5/6/7 | SWSPCP Informational Session  
Learn the ins and outs of the SWSPCP Certification Program and how certification may advance your professional career. |
| 6:00 pm – 8:30 pm   | Boca 5/6/7 | SWSPCP Social  
Mingle with fellow professional wetland scientists during this reception. |
The SWS Awards committee is proud to recognize the 2011 winners of the student presentation competition and those students who received honorable mention. We would also like to thank those who served as judges and offered constructive feedback to future scientists.

**Dagmara Sirova**  
OUTSTANDING ORAL PRESENTATION  
University of South Bohemia  
Czech Republic  
Faculty of Science

**Elodie Maillard**  
OUTSTANDING POSTER PRESENTATION  
University of Strasbourg  
France  
Laboratory of Hydrology and Geochemistry

**Annette Piepenbrock**  
HONORABLE MENTION, ORAL PRESENTATION  
University of Tuebingen  
Germany

**Vicky Ortiz-Santiago**  
HONORABLE MENTION, POSTER PRESENTATION  
University of Hawaii at Hilo  
United States of America

**Cristian Estop Aragonés**  
HONORABLE MENTION, ORAL PRESENTATION  
University of Bayreuth  
Germany
INTECOL Technical Field Trips
(Conducted Sunday, June 3, 2012)

I. Cape Canaveral Wetlands

The tour started at the Merritt Island National Wildlife Refuge Visitor Center where participants were provided with an overview of the natural history of the expansive refuge that surrounds much of the Kennedy Space Center. While at the visitor center they explored the boardwalk and were oriented to some of the wetlands of the refuge and the restoration efforts being conducted. They proceeded to the Black Point Wildlife Drive where they drove along impounded dikes to view a gradient of freshwater marshes, salt marshes and mangrove wetlands, many of which are within impoundments first constructed for mosquito control and now managed for waterfowl habitat and many are in various phases of restoration. Along the way there were ample opportunities to observe many species of local birds as well as reptiles that are common to the area. After participants exited the Black Point Wildlife Drive they traveled to Cape Canaveral National seashore and looked over a relatively recent impoundment restoration and dike leveling and saw the coastal barrier island and beach along the Atlantic Ocean.

II. Emeralda Marsh Restoration

Participants toured portions of the Emeralda Marsh Conservation Area (EMCA), a 2,560 ha area of former agricultural farms. Restoration at this site converted former row-crop farm fields and cattle pastures to wetland and aquatic habitat. In addition, nutrient loading from the former farms to adjacent Lake Griffin was reduced by about 80%. This resulted in substantial water quality improvements in Lake Griffin and the return of submerged aquatic vegetation so important for fish and wildlife habitat. The EMCA has become a major wildlife observation site that is heavily utilized by the public.

Emeralda Marsh Conservation Area and the adjoining 3,600 ha Lake Griffin west of Leesburg, FL. have been a focus of restoration efforts by the St. Johns River Water Management District since 1995. The tour began at the ‘Wood Duck Parking Area’ at the beginning of the Emeralda Marsh Wildlife Drive. The bus traveled over former agricultural farm levees which had been elevated and stabilized with limerock. Tour participants first saw a recently established connection from a former farm field and cattle pasture area of about 280 ha to Haynes Creek, the major tributary of Lake Griffin. Next, they toured an alum treatment system which functions to treat discharges from about 430 ha of former row crop farm fields located on the western portion of the restoration area. Water levels are currently controlled on these sites to encourage wetland vegetation. Because residual nutrient concentrations remain at levels not acceptable for discharge to restored Lake Griffin, all discharges are treated with aluminum sulfate to control phosphorus concentrations. Participants then traveled over these former row-crop farm fields to observe the ongoing restoration to wetland habitat. This was a prime opportunity to see wildlife. The last stop on the tour was at the ‘P’ cell retention area and alum treatment system at Emeralda Island Road. This structure provides alum treatment of all water being discharged from about 1,120 ha of restored wetland and aquatic habitat east of Emeralda Island Road.
III. Florida Springs Tour – Juniper Springs and Silver Glen Springs

Tour participants walked to the springs and hiked through a network of trails within the recreation area of each spring. Juniper Springs is a second-magnitude spring with an oval-shaped pool that measures about 120 feet from north to south and 90 feet from east to west. Several limestone vents and sand boils are present on the pool bottom, with sand and aquatic grasses in other areas of the pool. The clear, bluish water has a low dissolved solids concentration compared with most Florida springs. A limestone and concrete wall with steps and other access points surrounds the pool. An old millhouse and spillway are on the east side of the pool. Numerous sand boils are located down the run from the main pool, with the largest by the bridge over the run. The springs are the headwaters of Juniper Creek, which meanders toward the northeast through the Juniper Prairie Wilderness for about 10 miles to Lake George.

Silver Glen Springs is a first-magnitude spring with a large, semicircular pool that measures 200 feet from north to south and 175 feet from east to west. Most of the strong flow emerges from two cavern openings in the rock at the bottom of the pool, with large boils at the water's surface over the vents. The vertical cave opening called the Natural Well in the southwestern edge of the pool is about 12 to 15 feet in diameter and 40 feet deep. The vent in the east part of the pool is a conical depression about 18 feet deep. Most of the spring pool has sand and limestone on the pool bottom, with areas of aquatic grasses. Large fresh and saltwater fish are common in the pool and around the vents. Additional flow is from sand boils in the bottom of the spring run downstream from the head of the springs. Water from the springs flows eastward down a run about 200 feet wide for 0.75 mile to Lake George.

IV. Orlando Treatment Wetlands – Orange Co. Eastern Water Reclamation Facility, Greenwood Urban

This tour highlighted two constructed wetlands in Central Florida. The Greenwood Urban Wetland receives and treats urban stormwater runoff from downtown Orlando, and the Orlando Easterly Wetlands (aka Orlando Wetlands Park) receives tertiary treated wastewater from the Iron Bridge Wastewater Reclamation Facility before discharging to the St. Johns River. Both systems were excellent examples of integrated treatment wetland design and have been operational for almost two decades and provided insight into long-term management and performance of these systems.

V. SJRWMD Lake Apopka North Shore Restoration

The tour featured a site with ongoing restoration of 80 km² of former agricultural lands to wetlands, including a 275-ha treatment wetland for nutrient removal from lake water (Lake Apopka Marsh Flow-Way). Topics covered included restoration of hydrologic conditions; nutrient control on former agricultural lands; persistence, bioaccumulation, and remediation of organochlorine pesticides in organic soils; and nutrient removal in a treatment wetland at high hydraulic loading and low inflow concentrations.

Lake Apopka, northwest of Orlando, has been a focus of restoration efforts by the SJRWMD (St. Johns River Water Management District) since 1985. The tour visited portions of 80-km² former farmlands on the north shore of Lake Apopka in various stages of wetland
restoration. Participants saw presentations on the overall restoration program for 125-km² Lake Apopka and its watershed, on contaminant studies and soil remediation completed on the former farms prior to reflooding, and on a 275-ha treatment wetland for nutrient removal. Prior to the 1940s, Lake Apopka had clear water and abundant gamefish. Agricultural development of the floodplain wetland resulted in increased phosphorus loading to the lake that caused chronic algal blooms starting in 1947. The once abundant submersed macrophytes were eliminated by shading, and sportfish populations declined. Key to restoration of the lake is the reduction in nutrient loading through purchase of the farms and restoration of wetlands. Restoration of hydrologic conditions is complicated by the fact that decades of agriculture resulted in up to 2 m subsidence of the organic “muck” soils. The soils contain organochlorine pesticide residues and have high phosphorus content. You will see abundant birds and wildlife.

VI. Upper St. Johns River Basin – Bull Creek & Triple N Ranch

Participants experienced the “real” Florida and saw a wide variety of habitats. These vast wildlife management areas (Bull Creek = 23,470 ac; Triple N = 15,391 ac) provided the opportunity to see many of Florida’s inland habitats ranging from sandy, scrubby areas to wet, peaty swamps and marshes. In Bull Creek WMA, trip leaders presented the hydrologic management challenges of managing an area of this size and then allowed participants to foray into the swamp (we wore shoes that could get wet!). Then we headed to higher ground to hear about the fire management and invasive plant management techniques that are used to manage this diverse resource. Trip participants visited some of the finest examples of several Florida habitats including Scrub, Palmetto prairies, Hardwood Hammocks, Pine Flatwoods, Marshes, and Hardwood Swamps. All along the tour, Guides pointed out rare and interesting plant species that occur in those areas (including hooded pitcher plant, bromeliads, butterfly orchids, sundews). Afterwards, they headed to the Triple N Ranch WMA to see Red-cockaded Woodpecker habitat and our FFWCC Guides instructed participants on the dynamics of managing a federally listed species. Wildlife abounds in these areas with such species as sandhill crane, bobcat, deer, turkey and a plethora of other birds, amphibians, reptiles, and insects!

VII. Wekiwa Springs and River Tour

Participants toured the headwaters of the Wekiva River. The beautiful vistas within this park offered a glimpse of what Central Florida looked like when Timucuan Indians fished and hunted these lands. Just one hour from most central Florida attractions, Wekiva Springs offered participants the opportunity to relax in a natural setting, enjoyed a picnic, and swim in the cool spring. Canoeists and kayakers paddled along the Wekiva River and Rock Springs Run. We took a short canoe trip down the springs and back and spent time exploring the spring and surrounding river hammocks. Along the way, the Tour Leader provided background information on the geology and ecology of Florida springs and related wetland habitats. The canoeing was “flatwater” and was suitable for those with minimal or no experience.
VIII. Wetlands Reserve Program Restoration Tour

Participants enjoyed a guided tour through a restored wetland site of approximately 1,000 acres in Polk County. This land sits in the area of the headwaters of the largest restoration project in the world, the Florida Everglades. Wildlife such as bears, whooping cranes and bald eagles frequent this site. The landowners, as good stewards of the land, contracted with NRCS for a WRP easement on portions of their typical Florida ranch. These easements restrict development and conserve the land for future generations. The wetland restoration project was completed in 2006. Participants became familiar with the wetland ecosystems of this site. In addition, participants were introduced to the hydrological principles behind the structural restoration work performed. Wetland management topics were also discussed including the use of prescribed grazing for invasive plant control.
Poster Display Information

Poster Session One:

POSTER SET UP: Sunday, June 3, 2:00pm – 7:00pm
SESSION I RECEPTION: Monday, June 4, 6:30pm – 8:30pm
POSTER REMOVAL: Wednesday, June 6, by 10:30am

SESSION ONE POSTER PRESENTERS:
Please remove your poster display during the 10am refreshment break on Wednesday.

Poster Session Two:

POSTER SET UP: Wednesday, June 6, by 1:00pm
POSTER II RECEPTION: Thursday, June 7, 5:00pm-7:00pm
POSTER REMOVAL: Friday, June 8, 10:30am - 12pm

SESSION TWO POSTER PRESENTERS:
Please wait until AFTER 1pm EST on Wednesday to put your poster display on the assigned poster board. We will be adding and renumbering boards following session one, so session two board numbers will change.

Poster display boards will be dismantled and removed by the exhibit services vendor at 12pm on Friday, so please have Session Two posters down by this time. Conference organizers are not responsible for lost or damaged posters removed by the display board vendor. Posters not removed and left behind will be discarded.

To View TOPICAL Directory of Poster Presentations:
Session One (pg. 77)
Session Two (pg. 89)

To View ALPHABETICAL Directory of Posters by Presenting Author Last Name (pg. 103)
Opening Plenary Session

Monday, June 4, 2012
8:30am - 10:00am

Introductions & Welcome:
K. Ramesh Reddy, Conference Co-Chair
R. Eugene Turner, Chair, INTECOL Wetlands Working Group
Glenn Guntenspergen, Conference Co-Chair
G. Ronnie Best, Conference Co-Chair

Welcome Remarks:
Jack Payne, Senior Vice President for Agriculture & Natural Resources, IFAS, University of Florida, USA

Keynote Address:
Senator Bob Graham, Welcome to the State of Florida & Everglades Restoration, USA

(Grand Sierra Ballroom D&E)
### Sunday, June 3, 2012

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<tr>
<td>7:30 - 9:30</td>
<td>Pre-Registration Open for Field Trip Participants (Grand Sierra Ballroom A)</td>
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<td>8:00 - 5:30</td>
<td>OPTIONAL Pre-Conference Technical Field Trips</td>
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<td>10:00 - 06:00</td>
<td>Exhibitors Move-In (Caribbean Ballroom)</td>
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<td>2:00 - 7:00</td>
<td>Poster Session I Set Up (Caribbean Ballroom)</td>
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<td>4:00 - 7:00</td>
<td>CONFERENCE Registration Opens (Grand Sierra Ballroom A)</td>
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<td>5:30 - 7:00</td>
<td>Evening on Own</td>
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### Monday, June 4, 2012

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<tr>
<td>7:00 - 6:00</td>
<td>Registration Opens (Grand Sierra Ballroom A)</td>
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<td>7:00 - 6:00</td>
<td>Exhibits &amp; Posters on Display (Caribbean Ballroom)</td>
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<td>7:00 - 6:00</td>
<td>Internet Café Open (Caribbean Ballroom)</td>
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<td>7:00 - 8:30</td>
<td>Morning Refreshments (Caribbean Ballroom)</td>
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<td>08:30 - 10:00</td>
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<td>Opening Remarks:</td>
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<td>Jack Payne, Senior Vice President for Agriculture &amp; Natural Resources</td>
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<td>IFAS, University of Florida, USA</td>
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### Opening Plenary Session

- **Introductions & Welcome:**
  - K. Ramesh Reddy, Conference Chair
  - R. Eugene Turner, Chair, INTECOL Wetlands Working Group
  - Glenn Guntenspergen, Conference Co-Chair
  - G. Ronnie Best, Conference Co-Chair

- **Welcome Remarks:**
  - Jack Payne, Senior Vice President for Agriculture & Natural Resources
  - IFAS, University of Florida, USA

- **Keynote Address:**
  - Senator Bob Graham, Welcome to the State of Florida & Everglades Restoration, USA

(Grand Sierra Ballroom D&E)

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<tr>
<td>10:00 - 10:30</td>
<td>Break (Caribbean Ballroom)</td>
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# 9th INTECOL: International Wetlands Conference

**Monday, June 4, 2012**

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<th>Time</th>
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<td>10:30 - 12:00</td>
<td>Moderator</td>
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<tr>
<td>10:30 - 12:00</td>
<td>Session Overview</td>
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<tr>
<td>11:00</td>
<td>Lenore Vasilas</td>
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<tr>
<td>11:20</td>
<td>Jenet Dooley</td>
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<td>11:40</td>
<td>Mary Kentula</td>
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**12:00 - 1:30**

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<tr>
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<td>Lunch (Pavilion)</td>
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<td>10:30 - 12:00</td>
<td><strong>Concurrent Sessions</strong></td>
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<td>Location</td>
<td>Bonaire 5&amp;6</td>
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<tr>
<td>Moderator</td>
<td>Li Zhang</td>
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<tr>
<td>10:30</td>
<td>Session Overview</td>
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<tr>
<td>11:00</td>
<td>Chris Anderson Changes in Forested Wetland Composition, Structure, and Processes Along a Tidal Gradient on the Apalachicola River, FL, USA</td>
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<td>11:40</td>
<td>Discussion</td>
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<td>NWCA: An Endeavor in</td>
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<td>Scott Zengel</td>
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<td>Deepwater Horizon</td>
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<td>Oil Spill: Salt Marsh</td>
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<td>Treatment Testing and Monitoring, Northern</td>
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<td>Barataria Bay, Louisiana</td>
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<td>Joel Trexler</td>
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<td>1:40</td>
<td>Does the Everglades still exist?</td>
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<td>Niko Rosskopf</td>
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<td>Soil Physical Properties of Organic</td>
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<td>Soils in Germany and their Relevance for the</td>
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<td>Climate Reporting</td>
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<td>David Krabbenhoft</td>
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<td>Methylmercury Production in Everglades National Park</td>
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<td>Biogeochemical Drivers and Implications for Restoration</td>
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<td>Mary Boyd</td>
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<td>Florida Participation in the National</td>
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<td>Wetland Condition Assessment</td>
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<td>Marla Steinhoff</td>
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<td>Coastal Wetland</td>
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<td>Natural Resource Damage Assessment Plan for the</td>
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<td>Deepwater Horizon Oil Spill</td>
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<td>Wiley Kitchens</td>
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<td>Refugia in a Novel Ecosystem: Everglades Snail Kite in Florida</td>
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<td>Dongqui Wang</td>
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<td>Methane Emission from Estuarine Wetlands and the</td>
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<td>Effect of Wetland Plant</td>
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<td>Joerg Schaller</td>
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<td>Metal/ Metalloid Accumulation/ Remobilization During Aquatic Litter</td>
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<td>Decomposition in Freshwater</td>
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<td>Alexander Kolker</td>
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<td>A New Subsidence Curve for Mississippi</td>
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<td>River Delta Tide Goias and its Implications for Coastal Restoration</td>
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<td>2:20</td>
<td>Virginia Baker</td>
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<td>North Carolina National Wetland Condition Site</td>
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<td>Descriptions, Rapid Assessment Results, and Method Evaluation</td>
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<td>Salt Marsh Restoration Following an Oil Spill: Ecosystem</td>
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<td>Effects of Novel Water Regimes, Invasive Predators, and Contaminants on</td>
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<td>Population Dynamics of Wading Birds (Ciconiiformes) in the</td>
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<td>Meeting the Challenge of Barrier Island Restoration: An</td>
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<td>The Potential Effect of the Novel Ecosystem Concept on Wetland</td>
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<td>Methane and Nitrous Oxide Emissions in Freshwater Swamps and Marshes in</td>
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<td>Tidal Flux of Dissolved Organic Carbon, Total Mercury, and Methylmercury from</td>
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<td>The Regulation of Greenhouse Gas Fluxes by Wetlands at Landscape Level</td>
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<td>Bill Mitsch</td>
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<td>Carbon Export and Budget of Created Wetlands: Importance of Hydrology</td>
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<td>Seedling Recruitment in Variable Hydrologic Regimes</td>
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<tr>
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<td><strong>Discussion</strong></td>
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**Location**
- Bonaire 5&6
- Bonaire 7&8
- Curacao 1&2
- Curacao 3&4
- Curacao 5&6
- Curacao 7&8

**Moderator**
- Bill Mitsch
- Paulo Teixeira de Sousa
- Mark Brown
- Robert McInnes
- Tiffany Troxler and Brian Benscoter
- Nicholas Aumen

**Sessions**
- Olentangy River Wetland Research Park: Investigating Wetland Ecosystem Services at Multiple Landscape Scales (Part 2 of 3)
- Interrelationships Among Hydrological, Biodiversity and Land Use Features of the Pantanal (Brazil) and Everglades (Part 2 of 3)
- Adaptive Management Water, Wetlands, and Watersheds (AM:w3) the Africa Experience (Part 2 of 2)
- The Ramsar Convention and SWS - Linking Science to International Policy (Part 2 of 2)
- Patterns and Drivers of Peatland Carbon Storage
- Scientific Evaluation of Wetland Restoration (Part 1 of 2)
- Elise Pearlstine: Conceptual Model of Human and Natural Systems Interactions in the Agricultural and Ranching Areas in the Everglades and Pantanal
- Michael Murray-Hudson: Species Distribution Models for Investigating Potential Change in Floodplain Vegetation in Large Flood-Pulsed Tropical Wetlands
- Ritish Kumar: Socio-Economic Dimensions to Wetland Science
- Kimberly Wickland: Carbon Dynamics in High Latitude Peatlands: Effects of Permafrost Thaw
- Rebekah Gibble: Performance Measures and Adaptive Management of the Florida Everglades
- Narcisa Pricope: Time Series of Inundation in Flood-Pulsed Wetlands from Thermal and Radar Imagery
- Royal Gardner: The Intersection of Wetland Law, Policy and Science through the Ramsar Convention
- Evan Kane: Effects of Peatland Drainage on Dissolved Organic Carbon Quality and Quantity
- Donatto Surratt: Adapting Restoration Performance Measures to the A.R.M. Loxahatchee National Wildlife Refuge
- Okeke Thakadu: Predictors of Knowledge-Sharing Behaviors among Community-Based Natural Resources Organizations in the Okavango Delta, Botswana
- George Lukacs: Development of a New Framework of Cooperation between Ramsar STRP and SWS
- Danielle Watts: Hydrologic Modification and Peat Dynamics in the Everglades Ridge-Slough Mosaic
- Jimi Sadle: Evaluation of Vegetation Data as a Management Tool in Everglades National Park
- Deborah Wojcik: Communication, Social Networks, and Perceptions of Water and Wildlife in the Okavango Delta, Botswana
- Evelyn Gaiser: Ecosystem-Wide Assessment of Wetland Restoration Using Periphyton-Based Metrics

**Additional**
- June 3-8, 2012 | Orlando, Florida, USA
### 9th INTECOL: International Wetlands Conference

#### Monday, June 4, 2012

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<td>Antigua 1&amp;2</td>
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<th>Location</th>
<th>2011 National Wetland Condition Assessment (Part 3 of 3)</th>
<th>Hindcasts and Futurecasts Link Hydrology and Ecology in the Coastal Everglades</th>
<th>Novel Ecosystems: Climate Change and Summary (Part 3 of 3)</th>
<th>Tropical Floodplain Ecosystems: Comparative Analyses across Scales and Biomes</th>
<th>An Integrated Approach for Sustainable Use of Wetlands</th>
<th>Indicators for Wetland Monitoring and Assessment</th>
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<tr>
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<td>3:40</td>
<td>Erica Hernandez</td>
<td>Crosswalk of the Florida Wetland Condition Index within the National Wetland Condition Assessment</td>
<td>Jiang Jiang</td>
<td>Predicting and Detecting Consequences of SLR and Storm Surges on Coastal Vegetation</td>
<td>Beth Middleton</td>
<td>Wetland Function and Composition in Novel Swamp Environments</td>
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<td>4:00</td>
<td>Robert Compton</td>
<td>Initial Regulatory Applications of the Florida Wetland Condition Index for Vegetation (FWCI-V)</td>
<td>Dennis Krohn</td>
<td>Using Modern Hurricane Wind Data to Supplement Hydrodynamic Hindcast and Futurecast Models</td>
<td>Sylvie de Blois</td>
<td>Projecting Wetland Plant Species Distribution in a Changing Climate</td>
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<td>Jamie Saxton</td>
<td>Lessons Learned from the 2011 National Wetland Condition Assessment</td>
<td>Brad Stith</td>
<td>Futurecasting Effects of Sea Level Rise, Climate Change, and Restoration on Individual Species</td>
<td>Arnold van der Valk</td>
<td>History and Implications of the Novel Ecosystem Concept</td>
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<td>5:30 - 6:30</td>
<td>INTECOL &amp; SWS Plenary &amp; Awards (Grand Sierra Ballroom D&amp;E)</td>
<td>Master of Ceremonies - Greg Noe, Chair, SWS Awards Committee</td>
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<td>6:30 - 8:30</td>
<td>Welcome Reception and Interactive Poster Presentations Session I (Caribbean Ballroom)</td>
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<td>Integrating Biophysical and Economic Values of Wetlands</td>
<td>Impact of Peatland Fires on Ecosystem Function and Feedbacks to Climate: A Global Perspective (Part 1 of 2)</td>
<td>Invasive Species - Plants</td>
<td>Emerging Science in the Management of Wetlands (Part 2 of 2)</td>
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<td>4:00</td>
<td>Kay Stefanik</td>
<td>Vegetation Succession of Created Wetlands in Ohio</td>
<td>Rudolf Jaffe</td>
<td>Dissolved Organic Matter in Large, Subtropical, Freshwater Wetlands: A Comparative Study Between the Pantanal, Everglades and Okavango Delta</td>
<td>Damian Adams</td>
<td>Integrating Biophysical and Economic Values of Wetlands: Recent Advances in Ecosystem Service Valuation</td>
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<td>4:20</td>
<td>Li Zhang</td>
<td>Wetland Carbon Dynamics in the Eastern Tibetan Plateau</td>
<td>Scott Markwith</td>
<td>The Influence of Abiotic and Biotic Seed Dispersal Vectors on Vegetation Structure in the Everglades and Pantanal</td>
<td>Christopher Craft</td>
<td>Ecosystem Services of Restored Freshwater Wetlands of the Agricultural Midwest: Measurement and Valuation</td>
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Plenary Session - Ecosystem Services

Tuesday, June 5, 2012
9:00am - 10:00am

Moderator:
Glenn Guntenspergen

Plenary Speakers:

Jan Kvet, University of South Bohemia, Czech Republic
"Interactions between Human Activities and the Structure and Functioning of Wetland Ecosystems"

Brij Gopal, Centre for Inland Waters in South Asia - National Institute of Ecology, India
"Whither Wetland Conservation? A View from Developing Countries"

(Grand Sierra Ballroom D&E)
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<td>8:00 - 6:00</td>
<td>Registration Opens (Grand Sierra Ballroom A)</td>
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<td>8:00 - 6:00</td>
<td>Exhibits &amp; Posters on Display (Caribbean Ballroom)</td>
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<td>8:00 - 6:00</td>
<td>Internet Café Open (Caribbean Ballroom)</td>
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<td>8:00 - 9:00</td>
<td>Morning Refreshments (Caribbean Ballroom)</td>
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<td>09:00 - 10:00</td>
<td><strong>Plenary Session</strong>&lt;br&gt;Ecosystem Services</td>
<td>Grand Sierra Ballroom D&amp;E</td>
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<td>09:00 - 10:00</td>
<td><strong>Moderator:</strong>&lt;br&gt;Glenn Guntenspergen</td>
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<td>09:00 - 10:00</td>
<td><strong>Plenary Speakers:</strong>&lt;br&gt;Jan Kvet, <em>University of South Bohemia, Czech Republic</em>&lt;br&gt;“Interactions between Human Activities and the Structure and Functioning of Wetland Ecosystems”</td>
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<td>09:00 - 10:00</td>
<td>Brij Gopal, <em>Centre for Inland Waters in South Asia - National Institute of Ecology, India</em>&lt;br&gt;“Whither Wetland Conservation? A View from Developing Countries”</td>
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<td>10:00 - 10:30</td>
<td>Break (Caribbean Ballroom)</td>
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### GEER Plenary Session – Restoring the Heart of the Everglades

**Moderator:**
- G. Ronnie Best
- Lance Gunderson
- Sharon Ewe
- Omar Lopez
- Christopher Knightes
- Paul Bodelier

#### 10:30 - 12:00

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<td>Col. Al Pantano</td>
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<td>Plant-nutrient Interactions in Tropical Wetlands</td>
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<td>Melissa Meeker</td>
<td>Antigua 1&amp;2</td>
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<td>Dan Kimball</td>
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<td>Lance Gunderson</td>
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<td>Linking Microbial Community Structure to Greenhouse Gas Emissions from Wetlands</td>
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<td>Managing Crises, Climate Change Management</td>
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<td>Waterloo Wetlands (Part 1 of 3)</td>
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<td>Sharon Ewe</td>
<td>Ecology of Tree Islands in the Everglades</td>
<td>Mercury Fate, Transport &amp; Bioaccumulation in Wetlands</td>
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<td>Alexander Cheesman</td>
<td>Plant-nutrient Interactions in Tropical Wetlands</td>
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<td>David Krabbenhoft</td>
<td>Mercury Fate, Transport &amp; Bioaccumulation in Wetlands</td>
<td>Linking Microbial Community Structure to Greenhouse Gas Emissions from Wetlands</td>
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<td>Stephen McAlister</td>
<td>Linking Methane Production Rate to Methanogen Community Structure in Peatland Soils</td>
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<td>Matteo Convertino</td>
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<td>Enhanced Adaptive Management for Everglades in Response to Climate Change</td>
<td>Antigua 1&amp;2</td>
<td>Mercury Fate, Transport &amp; Bioaccumulation in Wetlands</td>
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<td>Daniel Irick</td>
<td>Soil Phosphorus Characteristics in Tree Islands of the Florida Everglades</td>
<td>Linking Microbial Community Structure to Greenhouse Gas Emissions from Wetlands</td>
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<td>Ilka Feller</td>
<td>Latitudinal Variations in Ecological Stoichiometry in Mangrove Communities: What is the Impact of Nutrient Loading on Canopy and Benthic Food Webs?</td>
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<td>George Aiken</td>
<td>Understanding the Dissolved Organic Matter-Mercury Connection in Wetlands: Lessons from the Florida Everglades</td>
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<td>Irina Kravechenko</td>
<td>Methane Emission and Microbial Communities of the Methane Cycle in Natural and Drained Peatlands</td>
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<td>Shannon Estenoz</td>
<td>Grand Sierra Ballroom B</td>
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<td>11:40</td>
<td>Jan Pokorny</td>
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<td>Water and Plants Regulate Temperature and Local Climate</td>
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<td>Susana Stoffella</td>
<td>Soil Phosphorus Characteristics in Tree Islands of the Florida Everglades</td>
<td>Linking Microbial Community Structure to Greenhouse Gas Emissions from Wetlands</td>
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<td>Hydrology, Substrate Type and Density Effects on Species Growth and Survival in Created Everglades Tree Islands</td>
<td>Antigua 3&amp;4</td>
<td>Mercury Fate, Transport &amp; Bioaccumulation in Wetlands</td>
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<td>Laurel Larsen</td>
<td>A Test of the Nutrient Redistribution Hypothesis in the Everglades Ridge and Slough Landscape</td>
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<td>Karen Riva-Murray</td>
<td>Mercury Bioaccumulation by Macroinvertebrates and Fishes of Streams in Contrasting Landscapes</td>
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<td>Andrew Ogram</td>
<td>Life at the Front: Microbial Ecology of Shifting Nutrient Limitations and Methanogenesis in the Northern Everglades</td>
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**12:00 - 1:30**

Lunch (Pavilion)
## Tuesday, June 5, 2012

### Concurrent Sessions

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### Location
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- Bonaire 7&8
- Curacao 1&2
- Curacao 3&4
- Curacao 5&6
- Curacao 7&8

### Presentations

- **The Ecology of Livelihoods in Papyrus Wetlands: Ecosystem Functions, Services and Livelihoods (Part 1 of 3)**

- **Measurement of Greenhouse Gas Emissions from Wetlands (Part 1 of 3)**

- **Success Strategies for Graduate School and Beyond**

- **Impact of Peatland Fires on Ecosystem Function and Feedbacks to Climate: A Global Perspective (Part 2 of 2)**

- **Wetland Management**

- **Wetlands: Extension/Outreach**

### Moderator
- Anne van Dam
- Ken Krauss
- Lisa Chambers
- Brian Benscoter & Merritt Turetsky
- Bob Ford
- ML Robinson

### Sessions

**10:30 - 12:00**

- **10:40**
  - **Response of Papyrus Wetland Ecosystem to Seasonal Changes in Hydrology and Livelihood Pressures**
  - Priscah Rongoei

- **Net Ecosystem Carbon Exchange of Mangroves: Complexities in Developing Global Budgets**
  - Robert Twilley

- **The Importance of Mentoring for Student Success in the Sciences**
  - Julia Cherry

- **Scale-Dependent Microclimate Effects of Wetland Wildfire**
  - Adam Watts

- **Making Science Real - Using State of Environment Reporting to Improve Wetland Practice**
  - Damian Walters

- **Modernizing U.S. National Standards for the Classification and Mapping of Wetlands**
  - Jane Awl

**11:00**

- **Groundwater-Surface Water Interactions in a Papyrus Wetland**
  - Patrick Khisa

- **Variable Effects of Nutrient Enrichment on Soil Respiration in Mangrove Forests**
  - Catherine Lovelock

- **Taking Your Science to the General Public: The Extension Model**
  - Mark Clark

- **Peat Bog Wildfire Smoke Exposure in Rural North Carolina is Associated with Cardio-Pulmonary Emergency Department Visits**
  - Ana Rappold

- **Defining Wetland Health: A Foundation for Conservation Planning**
  - Brian Nicholson

- **URBAN, a Citizen-Science Program Based in Hamilton, Ontario**
  - Patricia Chow-Fraser

**11:20**

- **Birds, People and Papyrus Swamps: Balancing Livelihoods and Biodiversity Conservation**
  - Ilya Maclean

- **Soil CO2 and CH4 Emissions and Carbon Budgeting in Dry Floodplain Wetlands**
  - Jackie Batson

- **Discussion Panel: Taking the Next Step: Tips for Navigating the Post-Graduate Job Market**
  - Camille Stagg (USGS), Ariana Sutton-Grier (NOAA), Lisa Chambers (University of Florida), Jason Keller (Chapman University), Kim de Mutsert (George Mason University)

- **Tropical Peatlands of Southeast Asia: Functions, Threats, and the Role of Fire in Climate Change Mitigation**
  - Matthew Warren

- **Building up Resilience for Climate Chance in a Coastal Community of Tamil Nadu, India**
  - Guilherme M. O. Abuchahla

- **Schoolyard Wetlands: Creating Aquatic Spaces For Learning**
  - Charles Andrew Cole

**11:40**

- **Effect of Vegetation Harvesting on Nitrogen and Phosphorous Cycling in Rooted Papyrus Wetlands**
  - Edwin Hess

- **Approaches and Limitations to Quantifying Plant Regulation of Methane Emissions**
  - Patrick Magonigal

- **Panel Discussion & Synthesis**
  - Alan Dixon

- **Local Institutional Arrangements for Wetland Management in Ethiopia and Malawi**
  - Lawrence Handley
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<td>Tradeoffs in Wetland Ecosystem Services in Working Landscapes - Conceptual Frameworks (Part 1 of 2)</td>
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<td>Ecosystem Models &amp; Adaptive Management (Part 1 of 2)</td>
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<td>Hilary Swain</td>
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<td>Stephanie Romanach</td>
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<td>Rebecca Garvoille</td>
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<td>Dennis Whigham</td>
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<td>Paul Bradley</td>
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<td>Paul Bodelier</td>
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<tr>
<td>1:30</td>
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<td>Elizabeth Boughton</td>
<td>Tradeoffs in Wetland Ecosystem Services: Identification, Spatial Scale and Management Implications</td>
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<td>Fred Sklar</td>
<td>Application of Adaptive Management for Wetland Restoration: An Overview of a Large-Scale Everglades Physical Model</td>
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<td>Ross Boucek</td>
<td>Resource Partitioning among Three Mesocosms at a Marsh Mangrove Ecotone: A Response to a Seasonal Resource Pulse Subsidy</td>
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<td>1:30</td>
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<td>Mary Leck</td>
<td>Dispersal Potential of a Tidal River: Wetlands. Colonization of a Created Tidal Freshwater Marsh on the Delaware River, USA</td>
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<td>Christopher Knightes</td>
<td>Modeling Mercury Exposure at Different Scales in the McTier Creek Watershed and Edisto River Basin, SC, USA</td>
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<td>Jessica Moon</td>
<td>Nitrogen Cycling in Headwater Wetlands across Condition Gradients in Pennsylvania and Ohio</td>
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<td>1:30</td>
<td>1:40</td>
<td>Ned Euliss</td>
<td>Sustaining Wetlands in Working Landscapes: Using Functional Processes to Inform Tradeoff Decisions</td>
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<td>H. Carl Fitz</td>
<td>Model Analysis of Eutrophication Constraints on an Everglades Restoration Project</td>
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<td>Kristie Wendelberger</td>
<td>Detecting Long-term Plant Community Shifts in Response to Sea Level Rise and Everglades’ Restoration</td>
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<td>Metthea Yepsen</td>
<td>Vegetation Patterns in Prior Converted, Restored, and Reference Wetlands in the U.S. Mid-Atlantic Coastal Plain</td>
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<td>Heather Golden</td>
<td>Mercury Dynamics in a Coastal Plain Watershed: A Multiple Model Approach</td>
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<td>Hendrikus Laanbroek</td>
<td>The Effect of Hydrology on the Distribution of Ammonia-Oxidizing Betaproteobacteria in Impounded Black Mangroves (Avicennia Germinans)</td>
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<td>Diane De Steven</td>
<td>Restoring Southeastern Wetlands through the Wetlands Reserve Program: Ecological and Programmatic Trade-offs</td>
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<td>Walter Wilcox</td>
<td>Tools for Broad-scale Everglades Hydrologic Analysis and Planning</td>
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<td>Mehrnoosh Mahmoudi</td>
<td>Effect of Hydrologic Conditions and Sediment Transport on Wetland Patterning</td>
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<td>Karin Kettering</td>
<td>Reproduction, Dispersal, Emergence, and Establishment of Phragmites australis in Disturbances in Chesapeake Bay Tidal Wetlands</td>
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<td>Paul Conrads</td>
<td>Evaluation of Mercury Loads from Climate Change Projections for McTier Creek, South Carolina</td>
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<td>Bram Mulling</td>
<td>Microbial Community Changes During Residence of Treated Wastewater in a Constructed Wetland</td>
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<td>Christa Zweig</td>
<td>Ridge And Slough Multistate Modeling For Landscape Management</td>
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<td>David Lagomasino</td>
<td>Seasonal Water Chemistry and Spectral Reflectance in Coastal Mangroves</td>
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<td>Susan Galatowitsch</td>
<td>Barriers to Colonization in Sedge-Dominated Wetlands</td>
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<td>Paul Bradley</td>
<td>Landscape Controls on Total and Methyl Hg in the Upper Hudson River Basin, New York, USA</td>
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<td>Pieter Vandermeeren</td>
<td>Microbial Degradation of Pesticides in Wetlands: Effects of Season Bound Changes</td>
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3:00 - 3:30 Break (Caribbean Ballroom)
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<tr>
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<td>The Ecology of Livelihoods in Papyrus Wetlands: Ecosystem Functions, Services and Livelihoods (Part 2 of 3)</td>
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<td>Bonaire 7&amp;8</td>
<td>Measurement of Greenhouse Gas Emissions from Wetlands (Part 2 of 3)</td>
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<td>Curacao 1&amp;2</td>
<td>Symposium on Wetland Delineation and Regionalization (Part 1 of 2)</td>
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<td>Fire: Shaping Wetlands from Nutrients to Wildlife (Part 1 of 4)</td>
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<td>Mapping and Monitoring Large Wetland Systems and Biophysical Properties with Earth Observation Satellite Imagery (Part 1 of 2)</td>
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<td>The Unique and Complex Relationships Between Natural Wetland and Upland Habitats and Phosphate Mining (Part 1 of 2)</td>
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<td></td>
<td>Kevin Kroeger</td>
<td>John Marton - Quantifying Effects of Salinity and Water Level on Greenhouse Gas Emissions Using Two Different Approaches: Lab Incubations vs in situ Measurements</td>
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<td>Jacob Berkowitz</td>
<td>Jacob Berkowitz/ Paul Minkin - Regionalizing the USACE Wetland Delineation Manual - The Role of the National Technical Committee for Wetland Vegetation</td>
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<td>Adam Watts</td>
<td>Patrick Ingle - The Impact of Fire on Soil and Plant Nutrients in Calcareous Subtropical Wetlands</td>
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<td>Thiago Silva</td>
<td>Bruce Chapman - Mapping Floodplain Dynamics of the Amazon River Basin Using the Space-borne ALOS PALSAR Synthetic Aperture Radar</td>
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<td>Kym Rouse Campbell</td>
<td>Kristen Nowak - Environmental Benefits of Stream Restoration on Phosphate Mined Lands</td>
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<td>2:00</td>
<td>Gretchen Gettel</td>
<td>Gretchen Gettel - Controls of Denitrification in Papyrus Wetlands of the Nyando and Mara Rivers, East Africa</td>
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<td>Justin Meschter</td>
<td>Justin Meschter - Quantifying Soil Greenhouse Gas Fluxes in Relation To Inundation, Salt-Water Intrusion and Microbial Respiration in Tidal Wetlands</td>
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<td>Robert Lichvar</td>
<td>Robert Lichvar - Bringing Science and Technology to the National Wetland Plant List</td>
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<td>Jay Sah</td>
<td>Jay Sah - Fire and Flooding Interactions: Vegetation Trajectories in the Southern Everglades Marl Prairies, Florida, USA</td>
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<td>Patricia Kandus</td>
<td>Patricia Kandus - Monitoring Spartina Marshes in the Argentine Coast: Integrating Biophysical Parameters, Hyperspectral Field Data and Satellite Observations</td>
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<td>Mark Rains</td>
<td>Mark Rains - Hydrology of Clay Setting Areas and Surrounding Landscapes in the Phosphate Mining District, Peninsular Florida</td>
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<td>Rose Kaggwa</td>
<td>Rose Kaggwa - The Effects of Wastewater Discharge, Agriculture and Papyrus Harvesting on the Nutrient Regulation Function of Namatala Wetland, Uganda</td>
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<td>Kevin Kroeger</td>
<td>Kevin Kroeger - Blue Carbon in Wetlands: Consideration of Lateral and Vertical Greenhouse Gas Fluxes</td>
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<td>Jennifer Gillrich</td>
<td>Jennifer Gillrich - Developing a National Standard for Challenges to the National Wetland Plant List</td>
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<td>Liao Xiaolin</td>
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<td>Teresa Evans</td>
<td>Teresa Evans - Land Cover Classification and Seasonal Inundation of the Pantanal of South America Using Multi-SAR Imagery and an Object Based Image Analysis Approach</td>
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<td>Tyler Nicoll</td>
<td>Tyler Nicoll - Potential Benefits of Incorporating Biochar, a Soil Amendment, into Wetland Reclamation</td>
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<td>2:40</td>
<td>Serena Nasongo</td>
<td>Serena Nasongo - Institutions and Governance: Commercialization of Wetland Resources and its Effect on Traditional Institutions in the Nyando Papyrus Wetlands, Kenya</td>
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<td>Vincent Gaucci</td>
<td>Vincent Gaucci - Considering Scale When Assessing Wetland Methane Emissions: Wetland Forest Soils versus Wetland Forests</td>
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<td>Lindsey Dixon</td>
<td>Lindsey Dixon - Wetland Characteristics of Glacially Derived Boulder Fields in the Northeastern United States</td>
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<td>Cassandra Medvedeff</td>
<td>Cassandra Medvedeff - Response of Microbial Activity, Respiration and Methanogenesis to Fire Residues (Ash and Char) in Two Contrasting Subtropical Wetland Soils</td>
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<td>Viviane Reno</td>
<td>Viviane Reno - Deforestation Evolution in the Amazon Floodplain</td>
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<td>3:00</td>
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<td>Ecosystem Models &amp; Adaptive Management (Part 2 of 2)</td>
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**Moderator**
- Elizabeth Boughton
- Carol Mitchell
- Kristie Wendelberger
- Jos Verhoeven
- Paul Bradley
- Chris Craft

**Tuesday, June 5, 2012**

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<td>Chris Joyce</td>
<td>Scott Leibowitz</td>
<td>Rebecca Garvoile</td>
<td>Gudrun Borntone</td>
<td>William Orem</td>
<td>David Berrier</td>
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<td>4:00</td>
<td>Lauchlan Fraser</td>
<td>Craig Conzelmann</td>
<td>Carrie Rebenack</td>
<td>David Gowing</td>
<td>Christopher Knightes</td>
<td>Kathryn Pierfelice</td>
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<td>The Effects of Cattle Grazing on Breeding Waterfowl in Intermountain Depressional Wetlands</td>
<td>Visualizing Upper Trophic and Ecosystem Modeling Outputs with EverVIEW to Inform the Decision Process in Coastal Louisiana</td>
<td>Seasonality and Disturbance Events in the Carbon Isotope Record of Pinus elliottii Tree Rings from Big Pine Key, Florida</td>
<td>The Dynamics of Species-rich Meadow on UK Floodplains</td>
<td>Linking Atmospheric Mercury Deposition to Human and Wildlife Exposure (Source to Receptor) by Coupling VELMA and WASP with BASS to Simulate Fish Tissue Mercury Concentrations</td>
<td>Linkages between Microbial Biomass and Litter Decomposition in Tidal Forested Wetlands</td>
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<td>Patrick Bohlen</td>
<td>Leonard Pearstine</td>
<td>Lisa Chambers</td>
<td>Norbert Hözel</td>
<td>Peter Kalla</td>
<td>Megan Steinweg</td>
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<td>Assessing Tradeoffs Among Wetland Ecosystem Services in a Payment-for-Ecosystem-Services Program on Florida Ranchlands</td>
<td>Modeling Coastal Vegetation Community Succession using the Everglades Landscape Vegetation Succession Model</td>
<td>Biogeochemical Effects of Saltwater Intrusion and Increased Inundation on Everglades Peat Soil</td>
<td>Colonization and Succession in Restored Wet Grasslands: Lessons from Long-term Experiments</td>
<td>Biogeochemical and Community Structural Controls on Mercury in Everglades Food Webs</td>
<td>Temperature Sensitivity of Enzyme Activity at Depth in a Bog at Marcell Experimental Forest, MN, USA</td>
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<td>Sanjay Shukla</td>
<td>Allison Shideler</td>
<td>Evelyn Gaiser</td>
<td>Joseph Shisler</td>
<td>John Johnston</td>
<td>Ember Morrissey</td>
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**5:00 - 6:00**

Society of Wetland Scientists Professional Certification Program (SWSPCP) - Information Session - Attend this session to learn more about becoming a Certified Wetlands Professional. Certification signifies that your academic and work experience meet the standards expected of a practicing wetland professional and provides acknowledgment to your peers of your adherence to the professional ethics of the Society of Wetland Scientists Professional Certification Program. (Grand Sierra Ballroom C)
## Tuesday, June 5, 2012

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<td>Paul Ouedraogo: Wetland Policy Development in Rwanda: from Wetland Inventory to Legislation for Sustainable Use</td>
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<td>Alex Chow: Quantifying Halocarbon Contributions to Greenhouse Gas Emissions from Wetland Soils</td>
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<td>Steve Eggers: A Complex Wetland Delineation Involving a Ditched Wetland in the Twin Cities, Minnesota, USA</td>
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<td>Adam Watts: Smoldering Cypress Swamp Soils: Moisture Effects and Implications for Forest Structure</td>
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<td>Richard Lucas: Use of ALOS PALSAR for Regional Mapping and Monitoring of Mangroves</td>
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<td>Adam Platt: Using Reclaimed Phosphate Lands for Water Treatment and Aquifer Recharge</td>
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<td>4:20</td>
<td>István Zsuffa: Overview of Results from the EU-WETwin Project with Special Reference to Ugandan Papyrus Wetlands</td>
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<td>Jordan Barr: Mangrove Ecosystem Function and Response to Climate Change</td>
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<td>Justin Bailey: Multi-Scale Monitoring of Potential Groundwater Withdrawal Impacts Using Delineation Methodology; Lower Platte River, Nebraska</td>
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<td>Jim Snyder: Mass Mortality of Hardwood Shrubs after a Single Fire in Seasonally Flooded Prairie</td>
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<td>Pedro Souza-Filho: Multi-temporal Mapping of the Largest Continuous Amazonian Mangrove Belt Using Object-Based Classification of Multisensor Images</td>
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<td>Sandra Patrick: Mosaic Fertilizer’s Wellfield: Habitat Restoration, Conservation and Growing the Florida Scrub Jay</td>
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<td>Julius Kipkemboi: Integration of Ecological, Hydrological and Socio-Economic Data into a Bayesian Network Model for the Sustainable Utilization of Papyrus Wetlands</td>
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<td>Sarah Soard: Use of the Prevalence Index to Determine Plant Community Trends Related to Groundwater Withdrawal, Lower Platte River, Nebraska</td>
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<td>John Jones: Tracking Everglades Fire Scar Vegetation Recovery through Archival Landsat Image Interpretation</td>
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<td>Marc Simard: Maps of Canopy Height and Biomass of All Mangrove Forests of the Americas</td>
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<td>Joseph Nicolette: A Demonstration of an Ecosystem Services Valuation Methodology for Reclaimed Phosphate Mined Lands</td>
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<td>Fred Zaal: Session Summary and Conclusions</td>
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<td>Eric Sundquist: Rapid Assessment of Carbon Storage and Sequestration Capacity in U.S. Wetlands</td>
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<td>Panel Discussion: Effects of Fire on River Cane (Anundinaria gigantea) in a Bottomland Hardwood Forest Four Years After Burning</td>
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<td>Paul Gagnon: Development of a New High-Resolution Global Inundation Map</td>
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**Society of Wetland Scientists Professional Certification Program (SWSPCP) - Information Session** - Attend this session to learn more about becoming a Certified Wetlands Professional. Certification signifies that your academic and work experience meet the standards expected of a practicing wetland professional and provides acknowledgment to your peers of your adherence to the professional ethics of the Society of Wetland Scientists Professional Certification Program. (Grand Sierra Ballroom C)
Plenary Session - Governance of Large Scale Ecosystems & Global Wildlife and Wetlands

Wednesday, June 6, 2012

9:00am - 10:00am

Moderator:
G. Ronnie Best

Plenary Speakers:

Richard Beilfuss, International Crane Foundation, USA
"Wetlands, Water, and Climate—Perspective from Southern Africa"

Lynn Scarlett, Leading Environmental Policy Analyst, USA
"Coastal and Wetlands Management: Challenges of Shared Governance"

(Grand Sierra Ballroom D&E)
**Wednesday, June 6, 2012**

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<td>Registration Opens (Grand Sierra Ballroom A)</td>
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<td>Exhibits &amp; Posters on Display (Caribbean Ballroom)</td>
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<td>Plenary Session</td>
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<td><em>Governance of Large Scale Ecosystems &amp; Global Wildlife and Wetlands</em></td>
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<td>Lynn Scarlett, <em>Leading Environmental Policy Analyst, USA</em></td>
<td>&quot;Coastal and Wetlands Management: Challenges of Shared Governance&quot;</td>
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<td>10:00 - 10:30</td>
<td>Break (Caribbean Ballroom)</td>
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<td>73</td>
<td>Grand Sierra Ballroom B</td>
<td>Wetlands Governance and Legal Framework (40)</td>
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<td>74</td>
<td>Grand Sierra Ballroom C</td>
<td>Everglades Nutrients and Water Quality</td>
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<td>Antigua 1&amp;2</td>
<td>Habitat Management and Ecological Research in the Northern Everglades</td>
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<td>76</td>
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<td>Connectivity of Wetland Networks in the Landscape</td>
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<td>77</td>
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<td>Role of Best Management Practices in Non-point Source Pollution Control and Wetland Protection</td>
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<td>78</td>
<td>Bonaire 3&amp;4</td>
<td>Biogenic Gas Emissions from Peatlands: The Importance of Tropical and Sub-tropical Ecosystems (Part 1 of 3)</td>
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<td><strong>Location</strong></td>
<td><strong>Moderator</strong></td>
<td><strong>10:30</strong></td>
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<td><strong>Douglas Fisher</strong></td>
<td><strong>Stanley Liphadzi and Harrison Pienaar</strong></td>
<td><strong>Wei-Ta Fang</strong></td>
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<td>Wetlands Governance: Aligning Legal Doctrine with Biological Diversity</td>
<td>John White</td>
<td>County-based Governance of Participatory Restoration and Survey for Wetlands in Taiwan</td>
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<td><strong>ShiLi Miao</strong></td>
<td><strong>Rebekah Gibble</strong></td>
<td><strong>Barry Rosen</strong></td>
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<td><strong>Michelle Stevens</strong></td>
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<td><strong>David Lindley</strong></td>
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Wednesday, June 6, 2012
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<tr>
<td>10:30 - 12:00</td>
<td>Symposium on Plant Ecophysiology in Wetlands</td>
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<td>10:30</td>
<td>Session Overview</td>
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<tr>
<td>10:40</td>
<td>Lindsey Meyers</td>
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<td>11:00</td>
<td>La Toya Kissoon</td>
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<td>Plant Community Composition and Biogeochemistry of Clear and Turbid Shallow Lakes</td>
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<td>11:20</td>
<td>Nina Menichino</td>
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<td>Plant Species Response to the Restoration of Degraded Fens in North-West Wales</td>
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<td>Plant Ecophysiology in Tropical Freshwater Wetlands of Three Continents</td>
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<td>12:00 - 1:30</td>
<td>Lunch (Pavilion)</td>
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<td>Grand Sierra Ballroom B</td>
<td>Governing Across Boundaries: Learning from Experience (Panel 1)</td>
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<td>The SWSPCP CODE OF ETHICS: Code Compliance as a Working Professional (Part 1 of 2)</td>
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<td>Antigua 1&amp;2</td>
<td>Climatic Events, Climate &amp; Sea Level Rise</td>
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<td>Wetland Hydrology: Criterion and Assessment (Part 1 of 2)</td>
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<td>Invasive Plants-Phragmites</td>
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<td>Bonaire 3&amp;4</td>
<td>Biogenic Gas Emissions from Peatlands: The Importance of Tropical and Sub-tropical Ecosystems (Part 2 of 3)</td>
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<td>Lynn Scarlett</td>
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<td>James Perry</td>
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<td>Robert Johnson</td>
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<td>Chris Noble</td>
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<td>Doug Wilcox</td>
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<td>Vic Engel</td>
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<td>1:40</td>
<td>Shannon Estenoz Roy Stein John Hankinson</td>
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<td>This panel will examine models of shared or network governance in large-scale coastal restoration endeavors. What are the governing structures or mechanisms of cross-jurisdictional, multi-issue coordination and management? Who participates? How are decisions made? How are actions coordinated?</td>
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<td></td>
<td>Marisa Schönfeldt</td>
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<td>Effects of Raised Temperature and Northward Species Migration on Experimental Tidal Freshwater Marsh Communities from European and North American Estuaries</td>
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<td>Chris Noble</td>
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<td>Methods of Interpreting Hydrologic Data</td>
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<td>Franziska Eller</td>
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<td>Cryptic Invasion in a Changed Climate – Ecophysiology and Gene Expression of Common Reed from the US Gulf Coast</td>
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<td>William Wright</td>
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<td>Autonomous Ground Penetrating Radar (GPR) Measurements for Exploring Temporal Dynamics in Biogenic Gas Releases from Peat Soils in the Florida Everglades</td>
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| 2:00                      | Christopher Swarzenski                                                                |
|                           | Extreme Climate Events and the Recurrent Sudden Dieback and Recovery of Salt Marshes in the Rapidly Subsiding Mississippi River Delta, Louisiana |
|                           | Wayne Skaggs                                                                          |
|                           | Criterion for Wetland Hydrology: Effects of Growing Season and Saturation Duration    |
|                           | Martha Carlson Mazur                                                                  |
|                           | Predicting Phragmites Expansion in the Laurentian Great Lakes                         |
|                           | Sunitha Rao Pangala                                                                   |
|                           | Methane Emissions through Trees in Tropical and Temperate Forested Wetlands           |

| 2:20                      | Trainer Introduced Case Studies and Audience Interaction (30 minutes)                |
|                           | Jerome Lorenz                                                                        |
|                           | Hydropatterns and Rainfall During the 2009-2010 Hydrologic Year (June to May)         |
|                           | Provide Incite into How a Restored Everglades Might Respond to Sea Level Rise         |
|                           | Michael Vepraskas                                                                    |
|                           | Hydrologic Criterion of Hydric Soils                                                |
|                           | Md. Nazim Uddin                                                                     |
|                           | Phytotoxicity of Secondary Metabolites Produced by Phragmites australis in South-eastern Australia |
|                           | Michael Sukop                                                                        |
|                           | Lattice Boltzmann Simulation of Gas Bubble Dynamics in Peat                           |

| 2:40                      | Christopher Bernhardt                                                                |
|                           | Climate and Vegetation History of Current and Former Cape Sable Seaside Sparrow Wetland Habitat, Florida Everglades |
|                           | Peter Caldwell                                                                       |
|                           | Relating Hydrology to Wetland Plant Community Distribution                           |
|                           | Douglas Wilcox                                                                       |
|                           | Did Phragmites australis Invasion in the Great Lakes Begin in 1988 Rather than 1999? |
|                           | Xavier Comas                                                                         |
|                           | Using Hydrogeophysical Methods to Constrain Spatial and Temporal Dynamics of Biogenic Gas Distribution and Fluxes in Peat Soils of the Everglades |

<p>| 3:00 - 3:30              | Break (Caribbean Ballroom)                                                          |</p>
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<td><strong>Moderator</strong> Susan Galatowisch Mike Ross Colleen Charles Todd Osborne John Jones Kevin Erwin</td>
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<td>1:40</td>
<td><strong>Ondrea Hummel</strong> Wetland Restoration and Monitoring in the Southwest <strong>Maarten Eppinga</strong> aMazing Pattern: Self-organization in Northern Peatland Ecosystems <strong>Louise Alexander</strong> Using Qualitative Frameworks and Quantitative Tools to Optimize Shorebird Habitat at Cabo Rojo Wildlife Refuge, Puerto Rico <strong>Tom Smith</strong> Fire, Water, Soil and Sea Level Influence the Position of Mangrove–Marsh Ecotones Through Time <strong>Shimon Wdowinski</strong> Suitability of the New Generation of SAR Satellites to the Wetland InSAR Application <strong>Manyin Zhang</strong> Restoration of Sand Mininged Wetlands in the Wild Duck Lake Natural Reserve, Beijing: Approaches and Evaluation</td>
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<tr>
<td>2:00</td>
<td><strong>Suzanne Bayley</strong> Northern Prairie Wetland Assessment at Multiple Spatial Scales <strong>Yiwei Cheng</strong> Exogenous and Endogenous Controls Impact Evolution and Resilience of Wetland Vegetation Patterns <strong>Jennifer Rehage</strong> Seasonal Hydrology Drives Predator and Prey Co-occurrence along a Marsh-Mangrove Ecotone: Implications across Ecological Scales <strong>Michael Duever</strong> A Successional Model for Restoration and Management of South Florida Plant Communities <strong>C.K. Shum</strong> High-resolution Wetland Water Level Monitoring Towards Everglades Restoration Integrating Synthetic aperture Radar Interferometry and Satellite Radar Altimetry <strong>Xingzhong Yuan</strong> The Littoral Zone of the Three Gorges Reservoir: Challenges and Opportunities</td>
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<td>2:20</td>
<td><strong>Gretchen Ehlinger</strong> Sustainability of Long-term Monitoring for Large Scale Ecosystem Restoration <strong>Laurel Larsen</strong> Sediment Redistribution and Accretion Feedbacks: Drivers of Landscape Pattern, Process, and Restoration Potential in Wetlands Worldwide <strong>Melissa DeSa</strong> A Novel Method For Camera Trapping Small Mammals In Irregularly Flooded Marsh Environments <strong>Michael Duever</strong> A Transitional Fire Model for Restoration and Management of Natural South Florida Plant Communities <strong>Hyonki Lee</strong> Integrated Analysis of Interferometric SAR, Satellite Altimetry and Hydraulic Modeling to Quantify Louisiana Wetland Dynamics <strong>Yuechen Li</strong> A Summary of Existing Wetland Research on the Three Gorges Reservoir Area</td>
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<td>2:40</td>
<td><strong>Mark Cook</strong> Restoring Ecosystem Function in the P-Enriched Everglades: Improving Habitat for Wildlife <strong>James Heffernan</strong> Discharge Competence as a Mechanism for Peatland Pattern Formation <strong>Michael Flaxman</strong> Considering Climate Change in State Wildlife Action Planning for Florida <strong>Rick Anderson</strong> The River of Fire; Fire Management in the Modern Everglades <strong>Emanuelle Feliciano</strong> Biomass Estimation in the Everglades using Synthetic Aperture Radar and Ground-based LiDAR <strong>Xingzhong Yuan</strong> Both Summer and Winter Flooding Determine the Biodiversity and Above-ground Biomass Pattern of Vegetation in the Drawdown Area of China’s Three Gorges Reservoir</td>
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<td><strong>Panel 1</strong></td>
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<td><strong>Dialogue Among Panel 1 and Panel 2</strong></td>
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<td><strong>Case Studies and Audience Participation - Session will Close with Audience Question/Answer Forum</strong></td>
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<td>Emily Pidgeon</td>
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<td>David Gordon</td>
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<td>Discussion</td>
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<td>Johan van de Koppel</td>
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<td>5:00 - 7:00</td>
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Plenary Session - Climate Change

Thursday, June 7, 2012

9:00am - 10:00am

Moderator:
K. Ramesh Reddy

Plenary Speakers:

Stefan Rahmstorf, Potsdam University, Germany
"The Climate Crisis"

Tom Armstrong, United States Global Change Research Program, USA
"The U.S. Global Change Research Program: Thirteen Agencies, One Vision"

(Grand Sierra Ballroom D&E)
### Thursday, June 7, 2012

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| 09:00 - 10:00| **Plenary Session**  
**Climate Change**                                                                    |
|             | **Moderator:**  
K. Ramesh Reddy                                                        |
|             | **Plenary Speakers:**  
Stefan Rahmstorf, *Potsdam University, Germany*  
"The Climate Crisis"                                                      |
|             | Tom Armstrong, *United States Global Change Research Program, USA*  
"The U.S. Global Change Research Program: Thirteen Agencies, One Vision" |
|             | (Grand Sierra Ballroom D&E)                                           |
| 10:00 - 10:30| **Break** (Caribbean Ballroom)                                        |
### Thursday, June 7, 2012

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<td>10:30</td>
<td>Grand Sierra Ballroom B</td>
<td>Jim Morris</td>
<td>Dianna Hogan</td>
<td>Maria Vandergragt</td>
<td>Dorothy Merritts</td>
<td>James Cotner</td>
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<td>Antigua 1&amp;2</td>
<td>Lisa Schile</td>
<td>Kevin Kotun</td>
<td>Jimmy Sellers</td>
<td>William Hilgartner</td>
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<td>Bonaire 1&amp;2</td>
<td>Boone Kauffman</td>
<td>Erik Stabenau</td>
<td>Ralph Tiner</td>
<td>Cliff Hupp</td>
<td>Charlotte Jørgensen</td>
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<td>Bonaire 3&amp;4</td>
<td>Exceptionally High Carbon Stocks of Mangroves and their Potential Conservation through Global Carbon Markets</td>
<td>Water Budget, Climate Variability, and Predicting Salinity for Eastern Florida Bay</td>
<td>Landscape-level Functional Assessment Using Enhanced Wetland Geospatial Data</td>
<td>Sedimentation Patterns on the Restored Reach of the Kissimmee River Floodplain</td>
<td>Phosphorus Composition and Reactivity in Outflow Water from Constructed Wetlands</td>
<td>Jim Bays</td>
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<td>Jim Fourquerean</td>
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<td>Nathan Jones</td>
<td>P. V. Sundareswar</td>
<td>Rebecca Rooney</td>
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#### Lunch (Pavilion)

12:00 - 1:30
## Thursday, June 7, 2012

### 10:30 – 12:00

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<td>Bonaire 5&amp;6</td>
<td>Salinization of Freshwater Wetlands (Part 1 of 3)</td>
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<tr>
<td>Bonaire 7&amp;8</td>
<td>Mitigating and Adapting to Global Sea Level Rise in the Gulf of Mexico</td>
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<tr>
<td>Curacao 1&amp;2</td>
<td>The Hydroecology of a Florida River and the Potential Ecological Effects of Human Water Use (Part 1 of 2)</td>
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<td>Curacao 3&amp;4</td>
<td>Planning &amp; Implementing Large Scale Ecosystems</td>
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<td>Nutrient Cycling - Floodplain Lakes and Streams</td>
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<td>Curacao 7&amp;8</td>
<td>Stormwater Wetlands - Design and Performance</td>
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### Moderator
- Scott Neubauer
- Valsin Marmillion
- Edgar Lowe
- Scott Phillips
- Jan Vymazal
- Bill Hunt & Margaret Greenway

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<tr>
<th>Time</th>
<th>Session Overview</th>
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<th>Introduction &amp; Overview</th>
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<tr>
<td>10:40</td>
<td>Amy Burgin</td>
<td>Valsin Marmillion</td>
<td>Lawrence Keenan</td>
<td>Mitchell Griffin</td>
<td>Ni-Bin Chang</td>
<td>Bridget Wadzuk</td>
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<td>11:00</td>
<td>Ashley Helton</td>
<td>Sidney Coffee</td>
<td>Michael Coveney</td>
<td>Eric Cline</td>
<td>Medina Kadiir</td>
<td>Jon Hathaway</td>
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<td>11:20</td>
<td>Valerie Schoepfer</td>
<td>Valsin Marmillion</td>
<td>Dean Dobberfuhl</td>
<td>B.J. Bukata</td>
<td>Matthew Cohen</td>
<td>William Hunt</td>
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<td></td>
<td>The Effect of Saltwater Intrusion on Coupled Iron and Sulfur Cycling in a Coastal Freshwater Wetland</td>
<td>Presentation on Findings of the 11 Forums and What Solutions all Four States can Agree upon to Make the Gulf Coast more Resilient</td>
<td>Impacts to Submerged Aquatic Vegetation Associated with Hydrologic Changes in the St. Johns River Estuary, Florida</td>
<td>Assessing Hydroperiod Restoration Alternatives in Flatford Swamp, Florida</td>
<td>Nutrient Spiraling in a Bottomland Sub-Tropical Stream</td>
<td>Constructed Wetlands versus Ponds for Stormwater Management: a Framework for Ecosystem Services Assessment</td>
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### 12:00 – 1:30

Lunch (Pavilion)
### 9th INTECOL: International Wetlands Conference

**Thursday, June 7, 2012**

<table>
<thead>
<tr>
<th>1:30 – 3:00</th>
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<tbody>
<tr>
<td>Location</td>
<td>Grand Sierra Ballroom B</td>
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<tr>
<td>Moderator</td>
<td>Steve Emmett-Mattox</td>
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<p>| 3:00 - 3:30 | Break (Caribbean Ballroom) |</p>
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<tr>
<td>1:30</td>
<td><strong>Session Overview</strong></td>
</tr>
<tr>
<td>1:40</td>
<td>Scott Neubauer&lt;br&gt;Saltwater Intrusion into Tidal Freshwater Marshes Drives Shifts&lt;br&gt;at all Levels of Ecosystem Organization&lt;br&gt;&lt;br&gt;Thiago Sanna Freire Silva&lt;br&gt;Remote Sensing of Large Wetlands: Capturing the Spatial and Temporal Dynamics of the Amazon Floodplain&lt;br&gt;&lt;br&gt;Robert Mattson&lt;br&gt;Responses of Estuarine Benthic Macroinvertebrate Communities to Changing River Flows in the St. Johns River Estuary, Florida, USA&lt;br&gt;&lt;br&gt;Ehab Meselhe&lt;br&gt;Eco-Hydrology Modeling in Coastal Louisiana to Assess Project Effects on the Landscape&lt;br&gt;&lt;br&gt;Richard Lowrance&lt;br&gt;Bringing Together Science and Policy to Protect and Enhance Wetland Ecosystem Services in Agricultural Landscapes: Results of the OECD Workshop&lt;br&gt;&lt;br&gt;Aaron Mills&lt;br&gt;Microbial Processes in Constructed Tidal Wetlands for Removal of Nitrogen from Urban Wastewaters</td>
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<tr>
<td>2:00</td>
<td>Peter Gell&lt;br&gt;The Impact of Changing Salinity on Aquatic Ecosystems: Why the Last Page only Tells Part of the Story&lt;br&gt;&lt;br&gt;Florian Wittmann&lt;br&gt;Flood-induced Endemism in Amazonian Floodplain Trees&lt;br&gt;&lt;br&gt;Palmer Kinser&lt;br&gt;Hydrology and the Distribution of Floodplain Plant Communities of the Upper St. Johns River, Florida&lt;br&gt;&lt;br&gt;Dallon Weathers&lt;br&gt;Short-term Modeling of Coastal Response to Wave Climate and Relative Sea Level Rise&lt;br&gt;&lt;br&gt;Tomasz Okrusko&lt;br&gt;Ecosystem Services of European Wetlands – Overview of Current Situation and Future Perspectives&lt;br&gt;&lt;br&gt;Rebecca Heintzmann&lt;br&gt;Contrasting Urban and Natural Wetlands in South-Central New York</td>
</tr>
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<td>2:20</td>
<td>Marcelo Ardon&lt;br&gt;Salinity Intrusion Alters Nitrogen and Carbon Export from a Restored Coastal Plain Wetland (North Carolina, USA)&lt;br&gt;&lt;br&gt;Jochen Schöngart&lt;br&gt;Ancient trees in Amazonian Floodplains: Implications for Tropical Forest Ecology and Climate Change&lt;br&gt;&lt;br&gt;Steve Miller&lt;br&gt;Predicting Freshwater Inflow Effects on Estuarine Fishes in the St. Johns River, Florida&lt;br&gt;&lt;br&gt;Hugh Roberts&lt;br&gt;Storm Surge and Wave Modeling for Prioritization of Louisiana Coastal Restoration and Protection Projects&lt;br&gt;&lt;br&gt;Ed Maltby&lt;br&gt;Wetland Ecosystem Services – Findings from UK National Ecosystem Assessment and Relevance to US&lt;br&gt;&lt;br&gt;Greg Noe&lt;br&gt;Nutrient and Sediment Cycling and Retention in Urban Floodplain Wetlands</td>
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<td>Ellen Herbert&lt;br&gt;Predicting the Impacts of Saltwater Intrusion on Ecosystem Dynamics in Tidal Freshwater Floodplain Forests in Coastal Georgia, USA&lt;br&gt;&lt;br&gt;Eliane Silva Batista&lt;br&gt;The Climate-Tree Growth Relation in Central Amazonian Black-Water (igapó) Floodplain Forests&lt;br&gt;&lt;br&gt;Jordan Fischbach&lt;br&gt;Applying the Coastal Louisiana Risk Assessment Model to Assess Long-Term Benefits from Flood Risk Reduction Projects&lt;br&gt;&lt;br&gt;Edward Richards&lt;br&gt;The Challenge of Steady State Coastal Law in the Time of Rising Oceans&lt;br&gt;&lt;br&gt;Ann Redmond&lt;br&gt;Bank On It: Mitigation and the Restoration of Ecosystem Services to Urbanizing Watersheds</td>
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### Thursday, June 7, 2012

#### Concurrent Sessions

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<tr>
<th>Time</th>
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<tr>
<td>3:30</td>
<td>Grand Sierra Ballroom B</td>
<td>Blue Carbon Projects (Part 4 of 4)</td>
<td>Pat Megonigal</td>
<td>Brian Needelman: Carbon Crediting for Tidal Marshes: Projects in Maryland</td>
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<td></td>
<td>Antigua 3&amp;4</td>
<td>The Role of Flow and Hydrologic Connectivity in Floodplain and Wetlands Ecosystems (Part 3 of 3)</td>
<td>Laurel Larsen</td>
<td>David Ho: Resolving Kilometer-scale Flow Patterns in the Everglades Using SF₆ Tracer Release Experiments: Implications for Habitat Restoration</td>
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<td>Bonaire 1&amp;2</td>
<td>Emerging Contaminants</td>
<td>Chris Warn</td>
<td>La Daana Kada Kanhai: Polycyclic Aromatic Hydrocarbon (PAH) Contamination in the Caroni Swamp, Trinidad, West Indies</td>
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<td>Grand Sierra Ballroom C</td>
<td>Dynamic of Coastal Wetlands</td>
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<td>David Rudnick: Restoration of the Everglades' Saline Wetlands and Florida Bay: Responses Driven from Land and Sea</td>
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<td>Pat Dale: Why are Mangroves Expanding into Saltmarshes in Eastern Australia?</td>
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<td>Antigua 1&amp;2</td>
<td>Ecosystem Restoration Program Management and Large-Scale Project Implementation (Non-GEER)</td>
<td>Tom St. Clair</td>
<td>Mark McElroy: Large-Scale Search for Tidal Mitigation Sites on the Elizabeth River, Virginia</td>
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<td>Cristina Poindexter: Transport Across the Air-water Interface with Emergent Vegetation</td>
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<td>Ahmed Hamadeh: Removal of Pharmaceutical Compounds by Constructed Wetlands Under Different Redox Conditions</td>
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<td>Varun Gupta: Anaerobic Oxidation of Methane in Northern Peatlands</td>
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<td>Pamela Telis: Revisions to the Everglades Depth Estimation Network (EDEN) Surface-water Model</td>
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<td>5:00</td>
<td>Grand Sierra Ballroom B</td>
<td>Blue Carbon Projects (Part 4 of 4)</td>
<td>Pat Megonigal</td>
<td>Alison Leschen: Carbon Management in Coastal Wetlands: A Collaborative Approach to Quantifying GHG Flux to Support Development of a GHG Protocol and Economic Assessment</td>
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<td>Nathaniel Weston</td>
<td>Gary Milano</td>
<td>Edgar Lowe</td>
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<td>Response of Tidal Freshwater Marsh Plant and Microbial Communities in the Delaware River Estuary to Sea-Level Rise and Salt-Water Intrusion</td>
<td>Integration of Habitat Heterogeneity and Cost-effective Restoration Techniques into Innovative Large-scale Wetlands Restoration Efforts in South Florida Urban Areas</td>
<td>Variable Responses of Ecological Attributes and Drivers to Hydrologic Alteration in the St. Johns River, Florida</td>
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<tr>
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<td>Nathaniel Weston</td>
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<td>Greg Quartucci</td>
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<td>Plant Chemistry in a Freshwater Wetland Experiencing Salt Water Intrusion</td>
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<td>Seagrass Restoration and Mitigation: Policy Change Recommendations</td>
<td>Water-Quality Mapping and Monitoring Efforts in the Tidal Caloosahatchee River and Downstream Estuaries</td>
<td>Predicting the Effects of Hurricane Protection and Wetland Restoration Projects on Fish and Wildlife</td>
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<td>4:40</td>
<td>Whitney Kiehn</td>
<td>Stanley Liphadzi</td>
<td>Eric Roy</td>
<td>Denise Reed</td>
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<td>Impacts of Short-term Salinity Intrusion and Post-intrusion Conditions on Oligohaline Wetland Vegetation and Soils</td>
<td>Impact of Policy Implementation on Ecosytems and Water Quality in South Africa</td>
<td>Nutrient Dynamics at the Estuarine Sediment-Water Interface during Large Pulses of High Nitrate Mississippi River Water</td>
<td>The Future of Coastal Louisiana: Expected Outcomes of Implementing the 2012 Master Plan</td>
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<tr>
<td>5:00 - 7:00</td>
<td>Reception and Interactive Poster Presentations Session II (Caribbean Ballroom)</td>
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Plenary Session - Wetland Conservation & Restoration

Friday, June 8, 2012

9:00am - 10:00am

Moderator:
Ben LePage

Plenary Speakers:

David White, USDA’s Natural Resource Conservation Service, USA
"Producers Producing Results: Voluntary Conservation Working to Restore Wetlands and Protect Landscapes Across the Country"

Stephen Polasky, University of Minnesota, USA
"Valuing Nature: Incorporating Ecosystem Services into Decision-Making"

(Grand Sierra Ballroom D&E)
## Friday, June 8, 2012

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tr>
<td>8:00 - 1:00</td>
<td>Registration Opens (Grand Sierra Ballroom A)</td>
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<tr>
<td>8:00 - 1:00</td>
<td>Exhibits &amp; Posters on Display (Caribbean Ballroom)</td>
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<td>8:00 - 1:00</td>
<td>Internet Café Open (Caribbean Ballroom)</td>
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<td>8:00 - 9:00</td>
<td>Morning Refreshments (Caribbean Ballroom)</td>
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<tr>
<td>09:00 - 10:00</td>
<td><strong>Plenary Session</strong>&lt;br&gt;<strong>Wetland Conservation &amp; Restoration</strong></td>
<td>Grand Sierra Ballroom D&amp;E</td>
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<tr>
<td>10:00 - 10:30</td>
<td>Break (Caribbean Ballroom)&lt;br&gt;Poster Session Two Presenters to Remove Poster Displays</td>
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<td>12:15</td>
<td>Closing Plenary</td>
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<td>Phosphorus Removal Performance and Sustainability of Florida's Large-Scale Surface Flow Treatment Wetlands</td>
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<td>10:40</td>
<td>Tom DeBusk</td>
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<td>A Perspective on Florida's Large-Scale Treatment Systems for Phosphorus Removal</td>
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<td>10:40</td>
<td>Tom DeBusk</td>
<td>Bonaire 7&amp;8</td>
<td>Kenneth Rice</td>
<td>Forecasting Climate Change Effects on Threatened and Endangered Species in the Greater Everglades Ecosystem</td>
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<td>11:00</td>
<td>Robert Kadlec</td>
<td>Bonaire 7&amp;8</td>
<td>Russ Weeks</td>
<td>Standardized Methods to Compare Hydrologic Conditions in Depressional Freshwater Wetlands</td>
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<tr>
<td>11:00</td>
<td>Robert Kadlec</td>
<td>Curacao 1&amp;2</td>
<td>Steve Rockwood</td>
<td>Florida's Aquatic Habitat Restoration and Enhancement Program</td>
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<td>Robert Kadlec</td>
<td>Curacao 3&amp;4</td>
<td>Heather Henkel</td>
<td>Communication, Education and Outreach</td>
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<tr>
<td>11:00</td>
<td>Robert Kadlec</td>
<td>Curacao 5&amp;6</td>
<td>Dave Rudnick</td>
<td>Mangrove Ecology</td>
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<td>11:20</td>
<td>Ed Dunne</td>
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<td>Ed Dunne</td>
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<td>Heather Henkel</td>
<td>Wildlife in Greater Everglades and Coastal Ecosystem</td>
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**Friday, June 8, 2012**

**Closing Plenary Session (Grand Sierra Ballroom D&E)**

**Moderator:** R. Eugene Turner

Glenn Guntenspergen, K. Ramesh Reddy & G. Ronnie Best = Closing Acknowledgements

Conference Concludes
(Exhibitors and Poster Presenters Move Out)

**June 3-8, 2012 | Orlando, Florida, USA**

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**Session Overview**

**10:30**

- Tom DeBusk
  - A Perspective on Florida’s Large-Scale Treatment Systems for Phosphorus Removal

- Stephanie Romanach
  - Forecasting Climate Change Effects on Threatened and Endangered Species in the Greater Everglades Ecosystem

- Terrie Lee
  - Standardized Methods to Compare Hydrologic Conditions in Depressional Freshwater Wetlands

- Steve Rockwood
  - Florida’s Aquatic Habitat Restoration and Enhancement Program

- Stan Bronson
  - The Florida-UNESCO-IHE Hydroinformatics Program: Using the Everglades as a Laboratory for Learning

- Donna Devlin
  - Importance of Biodiversity and Biological Interactions on Mangrove Architecture in Mixed Saltmarsh/Mangrove Systems

**11:00**

- Robert Kadlec
  - Longevity of Phosphorus Control Marshes

- Margaret Hunter
  - Genetic Evidence for West to East Movement by Florida Manatees Through a South Florida Migration Corridor

- Yanyan Hua
  - Ecological Water Requirements Based on Water Level Simulation in the Yellow River Delta

- Jessica Griffith
  - A Prioritization Tool for Aquatic Restoration and Enhancement of Florida Public Lakes

- William Morgante
  - Wetland Gems of America

- Nibedita Mukherjee
  - Fighting on Arrival and Fighting for Survival: A Delphi Study on the Threats and Resilience of Mangroves

**11:20**

- Ed Dunne
  - Long-Term Phosphorus Removal Performance by a Large-Scale Constructed Wetland Treating Lake Water

- James Beerens
  - Wading Bird Foraging Trade-Offs in Response to the Production and Concentration of Prey

- Barclay Shoemaker

- Maria Merrill
  - Aquatic Habitat Management in Florida: A Program for Statewide Wetland Monitoring and Assessment

- BJ Jarvis
  - Community-Based Management of Non-Point Sources of Pollution

- Michael Osland
  - Projected Climate-Induced Mangrove Forest Range Expansion in the Southeastern U.S.: The Role of Winter Temperatures

**11:40**

- Mark Sees
  - The Orlando Easterly Wetlands: Sediment Accumulation Management Strategies for Prolonging Phosphorus Removal

- Dave Gandy
  - Nonnative Fishes in Freshwater Canals of the Florida Everglades: Implications for Better Management

- Jared Theriot
  - Will Hydrologically Restored Mississippi River Wetlands Promote Critical Biogeochemical Function?

- Ed Harris
  - Florida Fish and Wildlife Conservation Commission - Hydrixa Management Position Statement

- Jan Goldman-Carter
  - Making Wetland Science Work for Wetlands: Perspectives from the Conservation Community

- Roy Lewis
  - Ecohydrologic Characterization as an Essential Tool for Successful Mangrove Forest Management and Restoration
# Directory of Poster Presentations – Session One

**8:00am, Monday, June 4 – 10:00am, Wednesday, June 6**

Listed by Alphabetically by Topical Session

Presenting authors are in **bold**.

## Biodiversity - Endangered Species

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<td>Using Ecological Traits to Evaluate the Vulnerability of Threatened and Endangered Species to Climate Change</td>
<td>Allison M. Benscoter¹, Laura A. Brandt², Frank J. Mazzotti₁, Stephanie S. Romañach¹ and James I. Watling³</td>
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<td>Incorporating Climate Extremes into Climate Envelope Models for Florida Threatened and Endangered Species</td>
<td>David N. Bucklin¹, Laura A. Brandt², Carolina Cabal¹, Frank J. Mazzotti₁, Stephanie S. Romañach¹ and James I. Watling³</td>
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<td>Modeling the Impact of Climate and Anthropogenic Disturbance on the Distribution Of Florida's Threatened and Endangered Vertebrates</td>
<td>Carolina Cabal¹, Laura A. Brandt², David N. Bucklin¹, Frank J. Mazzotti₁, Stephanie S. Romañach¹ and James I. Watling³</td>
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<td>eDNA Monitoring: Presence-absence Sampling Technique for a Rare Amphibian Species</td>
<td>Thomas Newcomb¹, Frank Cipriano² and Eric Routman³</td>
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<td>Habitat Assessment for Smalltooth Sawfish, <em>Pristis pectinata</em>, along the Southwestern Coast of Florida</td>
<td>G. Tiling-Range¹ and T.J. Smith III², Jacobs Technology, Inc., co Southeast Ecological Science Center, St. Petersburg, FL, USA, U.S. Geological Survey, Southeast Ecological Science Center, St. Petersburg, FL, USA</td>
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## Biodiversity – Habitats

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<td>The Role of Wetland Pattern and Climatic Change in Determining Wetland Bird Diversity, Taiwan</td>
<td>Liang-Hsien Chen¹, Mark D. Barnes¹ and Monica Kuo³</td>
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<td>7</td>
<td>Ant Diversity in the Coastal Wetlands of Louisiana</td>
<td>Xuan Chen, Benjamin J. Adams and Linda M. Hooper-Bui, Louisiana State University, Baton Rouge, LA, USA</td>
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<td>8</td>
<td>A Study of Fresh Water Diatoms of Religious Water Ponds in Kurukshetra, Haryana (India)</td>
<td>Manoj Kumar Malik¹ and Ajay Kumar³</td>
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<td>10</td>
<td>Reed Flads: Unique but Little-Known Wetland Environments in the Northern Baltic Sea</td>
<td>Riggert Munsterhjelm and Henrietta Pitkänen; University of Helsinki, Helsinki, Finland</td>
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<td>11</td>
<td>Oyster Population and Reef Community Restoration in the St. Lucie River Estuary</td>
<td>Edward Proffitt and Elizabeth Salewski, Florida Atlantic University, Ft. Pierce, FL, USA</td>
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<td>Environmental Characteristics of <em>Cicuta virosa</em> Habitats</td>
<td>Cha Jeong Shin, Jong Min Nam and Jae Geun Kim, Seoul National University, Seoul, Republic of Korea</td>
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<td>13</td>
<td>Clam Bay Natural Resource Protection Area (NRPA) Benthic Habitat Assessment</td>
<td>Kathy Worley and Jeffrey R. Schmid, Conservancy of Southwest Florida, Naples, Florida, USA</td>
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Biodiversity –Vegetation

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14 Bird Perches as a Tool to Restore Vegetation in Neotropical Grassland Dominated by Exotic Grass -- João Carlos B. da Silva1, João B. Campos2 and José F. Cândido-Jr.; 1Universidade Estadual de Maringá, Maringá, PR, Brasil, 2Secretaria de Estado de Meio Ambiente e Recursos Hídricos – SEMA, Curitiba, PR, Brasil

15 First Report of Rhiophora racemosa (Rhizophoraceae) in the Wider Caribbean Region -- Maria B. Barreto and Eduardo Barreto-Pittol, Universidad Central de Venezuela, Caracas, Venezuela

16 The Impact of Surrounding Land Uses on Plant Species Richness in Florida Wetlands -- Valerie A. Burkett, University of Florida, Gainesville, FL, USA

17 Predation and Productivity Gradients Affect Arthropods, Herbivory and Plant Architecture in Mangrove Forests -- Alexander J. Forde1, Ilka C. Feller2, Daniel S. Gruner1 and John D. Parker1; 1Entomology Department, University of Maryland, College Park, MD, USA, 2Smithsonian Environmental Research Center, Edgewater, MD, USA

18 Managed Disturbance Enhances Biodiversity of Restored Wetlands in the Agricultural Midwest -- Anya M. Hopple and Christopher B. Craft, School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana, USA

19 Declining Species Richness and Restoration Potential of Aquatic Plants in Japanese Lakes -- Jun Nishihiro and Munemitsu Akasaka, Graduate School of Agricultural and Life Sciences, University of Tokyo, Tokyo, Japan

20 Root Release of Organic Carbon and Nutrient Uptake by Three Emergent Wetland Plants -- Xu Zhai and Hans Brix, Aarhus University, Department of Bioscience, Aarhus, Denmark

Biodiversity –Wildlife

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21 A Comparative Examination of within Wetland and Wetland Context Characteristics on Stopover Habitat Use by Migratory Shorebirds: Is the Neighborhood Important? -- Gene Albanese and Craig A. Davis, Department of Natural Resource Ecology and Management, Oklahoma State University, Stillwater, OK, USA

22 Broad-Scale Relationship between Shorebirds and Landscapes in the Southern Great Plains -- Gene Albanese and Craig A. Davis, Department of Natural Resource Ecology and Management, Oklahoma State University, Stillwater, OK, USA

23 Avian and Anuran Communities in Mitigated and Reference Wetlands of West Virginia -- Ann M. Anderson and James T. Anderson, West Virginia University, Morgantown, WV, USA

24 Ontogenetic, Interspecific, and Seasonal Variation in Prey Use of Three Centrarchids in a Subtropical Wetland -- Jacob W. Bransky and Nathan J. Dorn, Department of Biological Sciences, Florida Atlantic University, Davie, FL, USA

25 Status and Threats to Wetland Birds of Chhilchhila Wildlife Sanctuary in Haryana, India: An Important Wintering Ground for Migratory Birds -- Parmesh Kumar, Department of Zoology, University College, Kurukshetra University, Haryana, India

26 Importance of Mangroves during the Rainy Season for the Herpetofauna -- Coral J. Pacheco-Figueroa1, Juan D. Valdez-Leal1, Lilia M. Gama2, Eduardo Moguel1, Esmeralda Marcelo2, Erick Estañol2 and Joel Saenz2; 1DACBiol-UIAT, Villahermosa, Tabasco, México, 2COVINSE, DACBiol-UIAT, Villahermosa, Tabasco, México, 3ICOMVIS-UNA, Heredia, Costa Rica

27 Amphibians in Agricultural Fields and Natural Areas in South Florida -- Elise V. Pearlstine1, Ikuko Fujiasaki2, Juan Sebastian Ortiz2 and Maria Alejandra Millan1; 1University of Florida, IFAS, Everglades Research and Education Center, Belle Glade, FL, USA, 2University of Florida, IFAS, Ft. Lauderdale Research and Education Center, Davie, FL, USA


29 Color Characterization of Goby Species (Percoformes: Gobiidae) in Lake Mainit, Philippines -- Cheryl M. Talde and Idzel Marie D. Mijares, Department of Biological Sciences and Environmental Studies, College of Science and Mathematics, University of the Philippines Mindanao, Davao City, Philippines

30 Birds From the Wetland Coastal Plains of Tabasco, Mexico -- Juan de Dios Valdez-Leal1, Coral J. Pacheco-Figueroa1, Lilia M. Gama2, Elias J. Gordillo-Chavez2, Eduardo Moguel-Ordoñez2, Eduardo Méndez-López2 and Stefan Erriaga W.1; 1DACBiol-UIAT, Villahermosa, Tabasco, México, 2COVINSE DACBiol-UIAT, Villahermosa, Tabasco, México, 3ICOMVIS-UNA, Heredia, Costa Rica
### Biogeochemistry and Microbial Ecology - Biogeochemical Processes

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<td>S. D. Jackson, N. Larson and T. A. DeBusk, DB Environmental, Inc. Rockledge, FL, USA</td>
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<td>Seasonal Dynamics of Soil Nitrogen Processing in Contrasting Seasonally-Flooded, Calcareous, Subtropical Wetlands -- Xiaolin Liao</td>
<td>Kanika S. Inglett and Patrick W. Inglett, University of Florida, Gainesville, FL, USA</td>
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<td>Temperature Effects on Anaerobic C Processing in Two Subtropical Peat Soils of Differing Vegetation -- Patrick W. Inglett, Kanika S. Inglett and Cassandra A. Medvedeff, Department of Soil and Water Science, University of Florida, Gainesville, FL, USA</td>
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<td>Relationship between Soil Core Diameter and Nutrient Flux -- L. Keenan, A.L. Wright, E. Dunne and K.R. Reddy, St. Johns River Water Management District, Palatka, FL, USA, University of Florida, Gainesville, FL, USA</td>
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<td>Sediment Porewater Chemistry and Phosphorus Release for Parallel Emergent Macrophyte and Submerged Macrophyte Treatment Wetlands -- Michelle D. Kharbanda, Dawn E. Sierer, Forrest E. Dierberg, Karen Hileman, Sara Carrano and Delia Ivanoff, DB Environmental, Inc., Rockledge, FL, USA, South Florida Water Management District, West Palm Beach, FL, USA</td>
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<td>An Ecosystem Model for Detritus Decomposition in a Eutrophic Wetland, China -- Xia Li, Baoshan Cui, Hanqin Tian, Qichun Yang, Yan Lan, Tingting Wang, Zhen Han, School of Environment, Beijing Normal University, State Key Joint Laboratory of Environmental Simulation and Pollution Control, Beijing, China, Ecosystem Dynamics and Global Ecology (EDGE) Laboratory, School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL, USA, International Center for Climate and Global Change Research, Auburn University, Auburn, AL, USA</td>
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<td>Spatial Variability of Dissolved Organic Carbon and Sulfate in Groundwater in Central Pennsylvania Headwater Wetlands -- Aliana Reichert-Eberhardt, Denice Wardrop and Elizabeth Boyer, Intercollegiate Graduate Degree Program in Ecology, The Pennsylvania State University, University Park, PA, USA, Geography Department, The Pennsylvania State University, University Park, PA, USA, School of Forest Resources, The Pennsylvania State University, University Park, PA, USA</td>
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<td>Influence of Extracellular Enzyme Activities on Macroelemental Cycling in Subtropical Treatment Wetlands -- Christine M. VanZomeren, Rupesh K. Bhomia, Kanika S. Inglett and K. Ramesh Reddy, University of Florida, Gainesville, FL, USA</td>
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### Biogeochemistry and Microbial Ecology - Linkages between Microbial Ecology and Biogeochemical Functions

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<td>Transfer and Biodegradation of Chloroacetamide Herbicides in Lab-Scale Wetlands -- Gwenaël Imfeld, ElodieMaillard, Omniea Elsayed, Hans Richnow and Stéphane Vuilleumier, Laboratory of Hydrology and Geochemistry of Strasbourg (LHyGeS), University of Strasbourg/ENGEES, CNRS, Strasbourg Cedex, France, Department of Isotope Biogeochemistry, Helmholtz Centre for Environmental Research – UFZ, Leipzig, Germany, Laboratory of Molecular Genetics, Genomics and Microbiology, University of Strasbourg, Strasbourg Cedex, France</td>
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<td>Enzyme Activity in Lake Sediments and Its Relation with Eutrophication from East Plain Region -- Yu Zhang, Baoshan Cui, Shengrui Wang, Yan Lan, Zhen Han, Beijing Normal University, State Key Joint Laboratory of Environmental Simulation and Pollution Control, Beijing, China, Chinese Research Academy of Environmental Sciences, Beijing, China</td>
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Biogeochemistry and Microbial Ecology - Microbial Diversity and Functions

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63 Many Wetlands Capable of Anaerobic Dechlorination -- James P. Amon, Tracy Collins and David Duell, Department of Biological Sciences, Wright State University, Dayton, Ohio, USA

64 Methanotrophic Community Is Different in Natural and Drained Peatlands -- A.K. Kizilova1, I.K. Kravchenko2 and A.A. Sirin2; 1Winogradsky Institute of Microbiology RAS, Moscow, Russia, 2Institute of Forest Science RAS, Uspenskoe, Moscow region, Russia

65 Species-Specific Effects of Vegetation on the Abundance of Denitrifying Bacteria in Freshwater Wetlands -- Joseph C. Morina, Ember M. Morrissey and Rima B. Franklin, Biology, Virginia Commonwealth University, Richmond, VA, USA

66 Changes in Microbial Populations Affected by Oil Spill in Gulf of Mexico -- Joong-Wook Park and Asha Gupta, Troy University, Troy, AL, USA

67 Microbial Degradation of Pesticides in Wetlands: Influence of Photosynthesizing Algae -- Pieter Vandermeeren, François Moesen, Jan Diels and Dirk Springael, Division Soil and Water Management, Katholieke Universiteit Leuven, Belgium

Climate Change - Carbon Sequestration

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183 Carbon Storage in Piermont Marsh, Hudson River Estuary -- Destiny Torres1, Rossibel Fernandez1, Areej Haroon1, Amira Chowdhury1, Shiyng Feng2, Cristal Lopez1, Marshalee Lopez1, Susan Vincent1 and Katherine Allen1; 1The Young Women’s Leadership School of East Harlem, NY, USA, 2Lamont Doherty Earth Observatory, Columbia University, NY, USA

Communication Education & Outreach - Extension and Outreach

Poster Number

110 Cooperative Extension Master Watershed Steward Program and Wetland Education Opportunities -- Christopher K. Jones, University of Arizona Cooperative Extension, Gila County, Globe, AZ, USA

Communication Education & Outreach - Knowledge Transfer Tools

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109 It is all in the Questions: Incorporating Archeological Data in Wetland Studies -- Grady H. Caulk and Cynthia Thomas, U.S. Army Corps of Engineers, Jacksonville, FL, USA

111 simGlades: A Web Site for Sharing Everglades Ecological Modeling Information -- Leonard Pearlstine, Janice H. Lynch and Alicia M. LoGalbo, Everglades National Park, South Florida Natural Resources Center, National Park Service, Homestead, FL, USA

Communication Education & Outreach - Undergraduate and Graduate Education

Poster Number

108 Incorporating Wetland Delineation Skills into an Undergraduate Wetland Ecology Course -- Melody S. Durrett, Department of Biology and Wildlife, University of Alaska Fairbanks, Fairbanks, Alaska, USA

107 Undergraduates Perform Protein Expression Profiling to Understand Environmental Influences on Estuarine Organisms -- Terri J. Seron, Flagler College, Saint Augustine, FL, USA

106 Teaching Undergraduates How to Conduct Research: From Concepts to Publication -- R. M. Strecker and L. M. Hooper-Büi, Department of Entomology Louisiana State University, Baton Rouge, LA, USA
### Conservation and Management

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113  **Increasing Coastal Wetland Fish Habitat Protection under the Ontario Wetland Evaluation System** -- Patricia Chow-Fraser, Daniel Rokitsnki-Wojcik and Jonathan D. Midwood, McMater University Department of Biology, Hamilton, ON

114  **How to Use Ecosystem Services for Wetlands Conservation Planning in Remote Areas?** -- Jérôme Cimon-Morin, Monique Poulin and Marcel Darveau, Laval University, Plant Science department, Quebec, QC, Canada; Ducks Unlimited Canada, Quebec, QC, Canada; Quebec Centre for Biodiversity Science, Montreal, QC, Canada; EDS institute, Quebec, QC, Canada; Centre for Northern Studies, Quebec, QC, Canada; Centre for Forest Research, Montreal, QC, Canada

115  **Recreational Angler Perspectives of Nonnative Fish Species and Mercury Advisories** -- Christopher Edwards, Jennifer S Rehage, Joel Heinen and Mahadev Bhat, Florida International University, Miami, Florida, USA

116  **Minimum Flows and Levels: Balancing Hydrologic Requirements of Natural Resources and Human Uses** -- G.B. “Sonny” Hall and Jane Mace, St. Johns River Water Management District, Palatka, Florida, USA

117  **Conservation of Nine Ponds through Three Decades: Consequences for Marsh Vegetation** -- Marjorie M. Holland, C. John Burk and David McLain, University of Mississippi, University, MS, USA; Smith College, Northampton, MA, USA; Massachusetts Audubon Society, Easthampton, MA, USA

118  **Coastal Wetlands of the Delaware Estuary: Past, Present and Future** -- Danielle Kreeger, Angela Padeletti, Tracy Quirk, Andrew Homsey and Kelly Somers, Partnership for the Delaware Estuary, Wilmington, DE, USA; Academy of Natural Sciences of Drexel, Philadelphia, PA, USA; University of Delaware, Newark, De, USA; Drexel University, Philadelphia, PA, USA

119  **Insights into the Management of Wetlands under Disturbance from Experimental and Theoretical Models** -- Seungjin Lee, University of Florida, Gainesville, FL, USA


121  **Tools and Strategies to Address Coastal Wetland Loss** -- Susan-Marie Stedman, Nancy Larrison, Jennifer Linn, Arleen O’Donnell, Janine Harris, Martina McPherson, Emily Sheehan, Clay Miller and Brittany Croll, National Oceanic and Atmospheric Administration (NOAA), Silver Spring, MD, USA; Environmental Protection Agency (EPA), Washington D.C., USA; Eastern Research Group, Lexington, MA, USA; Oak Ridge Institute for Science and Education Fellow at EPA, EPA at the time of the study, now at NOAA, Silver Spring, MD, USA

### Ecosystem Restoration - Governance Policy and Politics

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126  **The Fen River Watershed Hydro-Ecosystem Restoration** -- Hongji Jia and Xinxui Guo, Shanxi Provincial Department of Water Resources, Taiyuan City, Shanxi Province, China

127  **Private Natural Reserves as a Strategy for the Conservation of the Brazilian Pantanal** -- Cristina Cuiabá Rodrigues Pimentel Neves, Sueli Angelo Furlan, Post graduation Program in Environmental Science, University of São Paulo, SP, Brazil; Post graduation Program in Environmental Science, University of São Paulo, SP, Brazil

128  **The Role of Politics in Wetlands Management, Case of the Kilombero Valley Flood Plain Ramsar Site in Morogoro Tanzania** -- Donasian O. Shayo, Ministry of Natural Resources and Tourism, Wildlife Division, United Republic of Tanzania

### Ecosystem Restoration - Indicator and Performance Measures

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129  **Generating CERP Performance Measures from Spatio-temporal Habitat Suitability Indices** -- James M. Beerens, Erik G. Noonburg, Dale E. Gawlik and Douglas D. Donalson, Florida Atlantic University, Boca Raton, FL, USA; U.S Army Corps of Engineers, Jacksonville, FL, USA

130  **Assessing Wetland Function Using Phosphorous Speciation** -- Kurt Chownski, PV Sundareshwar and Christine Sandvik, South Dakota School of Mines and Technology, Institute of Atmospheric Sciences, Rapid City, SD, USA

131  **A Water Level Performance Measure for Everglades Restoration** -- Integrating Everglades and Florida Bay Restoration Requirements -- Donald R. Deis, Frank E. Marshall, Patrick A. Pitts and Andrew D. Gottlieb, Atkins, Jacksonville, FL, USA; Cetacean Logic Foundation, New Smyrna Beach, FL, USA; U.S. Fish & Wildlife Service, Vero Beach, FL, USA
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71 Trace Metals in Sediments from Three Protected Areas in South Florida: Assessment of Background Concentrations and Evaluation of Risk for Management Purposes -- Joffre E. Castro1, Adolfo M. Fernandez2, Valentina Gonzalez-Caccia2 and Piero R. Gardinali3; 1Everglades National Park, South Florida Ecosystem Office, Homestead, FL, USA, 2Southeast Environmental Research Center, Florida International University, Miami, FL, USA, 3Department of Chemistry & Biochemistry, Florida International University, Miami, FL, USA

72 Copper Isotope Fractionation: A Proxy for Biogeochemical Processes in Wetlands Receiving Copper-Contaminated Runoff? -- Gwenaël Imfeld, I. Babcsany, M. Granet and F. Chabaux, Laboratory of Hydrology and Geochemistry of Strasbourg (LHyGeS), University of Strasbourg/ENGEES, CNRS, Strasbourg Cedex, France

73 Zero Order Sulfate Disappearance Rate in an Everglades Wetland Estimated Using Model Calibration -- Michael G. Waldon1, Chunfang Chen2, Hongqing Wang2, Hamid Bazgirkhoob2 and Ehab A. Meselhe3; 1A.R.M. Loxahatchee NWR, Boynton Beach, FL, USA, 2University of Louisiana-Lafayette, USA, 3USGS National Wetlands Research Center, Lafayette, LA, USA

Water Quality/Contaminants - Non-point Source Best Management Practices

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74 Polymer Enhanced Best Management Practices (PEBMPs): Wetland Water Quality, Construction, and Maintenance -- Kyla J. Iwinski1, Steven R. Iwinski2 and J. Dan Prevost and Trey Cooke, Department of Wildlife, Fisheries and Aquaculture, Mississippi State University, Mississippi State, MS, USA


76 Using Ditch Vegetation to Reduce Pesticide Loads in Runoff: First Flush and Beyond -- Matthew T. Moore, Heather L. Tyler and Martin A. Locke, USDA Agricultural Research Service, Oxford, MS, USA

77 A Cost Analysis of Low Impact Development Stormwater Treatment Methods in Florida -- Daniel C Penniman1, Mark Hostetler2, Tatiana Borisova3 and Glenn Acomb1; 1School of Natural Resource and Environment, University of Florida, Gainesville, FL, USA, 2Department of Wildlife Ecology and Conservation, University of Florida, Gainesville, FL USA, 3School of Natural Resource and Environment, University of Florida, Gainesville, FL, USA

78 Vegetation Buffers, Water Quality and Ecosystem Restoration -- Felicia Orah Rein1, Karen Holi2, Mark Los Huertos3, Daniel Mountjoy3, Robert Curry3 and Jean Langenheim; 1Department of Fisheries and Aquatic Sciences, University of Florida, Gainesville, FL, USA, 2Watershed Institute, California State University, Monterey Bay, CA, USA, 3Department of Food and Resource Economics, University of Florida, Gainesville, FL, USA

79 Effects of Root-Zone Glyphosate Exposure in Two Ditch Species -- Lyndsay E. Saunders1, Melissa B. Koontz2, Matthew T. Moore2, S. R. Pezeshki1; 1University of Memphis, Memphis, TN, USA, 2National Sedimentation Laboratory, Oxford, MS, USA
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331 Carbon Sequestration in Constructed Wetlands Treated with Swine Wastewater -- Gudigopuram B. Reddy¹, Patrick G. Hunt⁵, Kyoungho⁴, Ariel Szogi¹ and Johnesly Cyrus¹;¹ North Carolina A&T State University, Greensboro, NC, USA, ²USDA-ARS, Coastal Plains, Soil, Water and Plant Research Center, Florence, SC, USA

332 Carbon Storage at Managed and Natural Marshes in the Waccamaw National Wildlife Refuge, South Carolina, USA -- Judith Z. Drexler¹, M. Craig Sasser¹, Ken W. Krauss³, James Orlando¹, Amber M. Powell⁵ and Christopher M. Swarzenski¹;¹ U.S. Geological Survey, California Water Science Center, Sacramento, CA, USA, ²U.S. Fish and Wildlife Service, Georgetown, SC, USA, ³U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA, ⁴U.S. Geological Survey, Louisiana Water Science Center, Baton Rouge, LA, USA

333 Spruce-Peatland Responses Under Climatic and Environmental Change: An In Situ Warming by CO₂ Manipulation of a Characteristic High-Carbon Ecosystem -- Colleen M. Iversen¹, Paul J. Hanson², Randall K. Kolka¹, Stephen D. Sebestyen¹, Richard J. Norby¹, Joanne Childs², Brian Palik¹, Peter Thornton¹, Jeffrey Warren¹, Stan D. Wullschleger¹ and Les Hook¹;¹ Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA, ²USDA Forest Service, Marcell Experimental Forest, Grand Rapids, Minnesota, USA

334 Photosynthetic Responses to Temperature in the Genus Phragmites (Poaceae): An Important Mediator of Climate Responses? -- Nguyen X. Loc, Brian K. Sorrell, Carla Lambertini and Hans Brix, Department of Bioscience, Plant Biology, Aarhus University, Aarhus, Denmark

335 Biogenic Carbon Storage in Shallow Lakes from Brazilian Pantanal and Colombian Llanos -- Luisa F. Vega¹, Karl-Otto Rothaupt¹, Catia Nunes da Cunha¹, Marcelo Z. Moreira² and Matthias Wantzen³;³ Limnologisches Institut, Universität Konstanz, Mainaustraße, Konstanz / Egg, Germany, ²Laboratório de Ecologia Vegetal (NEPA), Instituto de Biociências, Universidade Federal de Mato Grosso, Cuiaba, MT, Brazil, ³Laboratorio de Ecologia Isotopica, CENA/USP - Piracicaba/SP, CEP, Brazil, ⁴Université François Rabelais, Parc Grandmont, Tours, France

336 Polyphenol Inhibits CO₂ Emissions under Prolonged Drought in an Unsaturated Pocosin Shrub Peatland -- Curtis J. Richardson, Hongjun Wang and Mengchi Ho, Duke University Wetland Center, Duke University, Durham, NC, USA

Climate Change - Extreme Events

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270 Susceptibility of Macrophyte Productivity to Variations in Flood Intensity in the Amazon Floodplain -- Thiago S. F. Silva¹, Tarik S. Araújo¹, Evlyn M. L. M. Novo¹ and John M. Melack¹;¹ Remote Sensing Division, National Institute for Space Research, S. José dos Campos, SP, Brazil, ²Bren School of Environmental Science and Management, University of California Santa Barbara, CA, USA
Climate Change - Greenhouse Gas Emissions

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337 Pattern of Greenhouse Gases Emission from Rice-field Wetland -- Hwey-Lian Hsieh1, Lan-Feng Fan1, Tsanyao Frank Yang2, Chun-Han Huang2, Chun-Ming Chiù3 and Chang-Po Chen2; 1Academia Sinica, Taipei, Taiwan, 2National Taiwan University, Taipei, Taiwan

338 Quantifying Methane Cycling Dynamics in Alaskan Arctic Lakes -- G. E. McGowan, K. Bretz, D. Lofton and S. C. Whalen; Department of Environmental Sciences and Engineering, University of North Carolina, Chapel Hill, NC, USA


341 Estimating Annual Soil Carbon Release from Everglades Tree Islands -- Robert Schroeder1,2, Leonard Scinto1,2, Alexandra Serna3,2, Eric Cline3, Thomas Dreschel3 and Fred Sklar3; 1Southeast Environmental Research Center, Florida International University, Miami, FL, USA, 2Department of Earth and the Environment, Florida International University, Miami, FL, USA, 3South Florida Water Management District, Everglades Systems Assessment Section, West Palm Beach, FL, USA

342 Nutrient Removal Efficiency and Biomass Production of Different Bioenergy Plants in Hypereutrophic Water -- Fengliang Zhao1, Wencheng Wang1, Xiaofang Yang1, Hong Li3, Hongyun Peng1, Zhenli He1, Binhe Gu3 and Hong Jiang1; 1MOE Key Lab of Environmental Remediation and Ecosystem Health, College of Environmental and Resource Science, Zhejiang University, Hangzhou, PR China, 2Ningbo Drinking Water Source Group Ltd., Ningbo, China, 3University of Florida, IFAS, Indian River Research and Education Center, FL, USA, 4South Florida Water Management District, West Palm Beach, FL, USA

Climate Change - Hydrologic Processes and Variability

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329 Shifts in Evapotranspiration Due to Historical Wet Meadowland Conversion to Agriculture in Sweden -- Fernando Jaramillo1,2 and Georgia Destouni1,2; 1Department of Physical Geography and Quaternary Geology, Stockholm University, Sweden, 2Bert Bolin Centre for Climate Research, Stockholm University, Sweden

330 Predicting Everglades Nutrient Distributions in Response to Climate Change Projections -- Rajendra Paudel1,2, H. Carl Fitz1,2 and R. K. Shrestha3; 1 Ft. Lauderdale Research & Education Center, University of Florida, Davie, FL, USA, 2Soil and Water Science Department, University of Florida, Gainesville, FL, USA, 3Center for Ocean-Land-Atmosphere Studies, Calverton, MD, USA

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400 Marsh Madness: A Science Education Adventure Focused on Wetland Environments -- Robert D. Doyle1, Melissa Mullins1, Nora Shell1 and Tom Conry2; 1Baylor University, CRASR, Waco, Texas, USA, 2City of Waco Water Utilities, Waco, Texas, USA

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343 Management Criteria Estimated by Tree-Ring Analysis Fortsobbleuia Spp. in the Brazilian Pantanal -- Patrícia T. de P. Leite1,2, Catia Nunes da Cunha1,2 and Jochen Schöngart3,5; 1Federal University of Mato Grosso (UFMT), Postgraduate Program in Ecology and Conservation of Biodiversity, 2Institute of Bioscience, Cuiabá, Brazil, 3National Institute for Science and Technology in Wetlands (INCT-INAU), Cuiabá, Brazil 4Max Planck Institute for Chemistry, Mainz, Germany
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357 Estimating Everglades Peat Vulnerability to Combustion -- James T. Johnson and Brian W. Benscoter; Florida Atlantic University, Davie, FL, USA

358 Effective Use of Prescribed Fire for the Control of Melaleuca quinquenervia and Lygodium microphyllum in the Florida Everglades -- Todd Z. Osborne 1, Robert Compitello 1 and Jimi Sadle 2; 1Wetland Biogeochemistry Laboratory, Soil and Water Science Department, University of Florida, Gainesville, FL, USA, 2National Park Service, Everglades National Park, Homestead, FL, USA

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320 Effects of Saltwater Intrusion on Tidal Freshwater Marsh Surface Elevation and Vegetation; An Experimental Study in Chesapeake Bay -- Leah Beckett and Andrew H. Baldwin, University of Maryland, College Park, MD, USA

321 Assessing the Role of Tidal Inundation in Determining the Spatial Structure of a Southeastern US Salt Marsh -- Tracy L. Buck and Erik M. Smith, North Inlet-Winyah Bay National Estuarine Research Reserve, Georgetown, SC, USA

322 Forecasting Coastal Change under Sea Level Rise: A Mid-Atlantic Case Study -- S. Kyle McKay 1, 2, Austin V. Davis 2, Jay J. Ratcliff 3 and Kelly Burks-Copes 3; 1Environmental Laboratory, U.S. Army Engineer Research and Development Center, Athens, Georgia, USA, 2Odum School of Ecology, University of Georgia, Athens, Georgia, USA, 3Coastal and Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Athens, Georgia, USA

323 The Drowning of a Coastal Estuary: How Hurricanes and Sea-Level Rise Altered Big Sable Creek -- Paul R. Nelson 1 and Tom J. Smith III 2; 1Jacobs Technology/USGS Southeast Ecological Science Center, St. Petersburg, FL, USA, 2USGS Southeast Ecological Science Center, St. Petersburg, FL, USA

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324 Soil Surface Elevation Change along a Tidal Freshwater Forested Wetland to Marsh Transition -- Nicole Cormier 1, Camille L. Stagg 1, Ken W. Krauss 2, William H. Conner 3 and Donald R. Cahoon 4; 1U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA, 2Clemson University, Baruch Institute of Coastal Ecology and Forest Science, Georgetown, SC, USA, 3U.S. Geological Survey, Patuxent Wildlife Research Center, Beltsville, MD, USA

325 Vegetation Diversity and Nutrient Allocation along a Salinity Gradient -- Lori A. Sutter 1, James E. Perry, III 1 and Randolph M. Chambers 5; 1Virginia Institute of Marine Science, Gloucester Point, VA, USA, 5The College of William & Mary, Williamsburg, VA, USA

326 Geographically Weighted Modeling of Surface Salinity in the Florida Bay Using Landsat TM Data -- Zhixiao Xie, Caiyun Zhang and Leonard Berry, Department of Geosciences, Florida Atlantic University, Boca Raton, FL, USA

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328 Monitoring Mangrove Ecotonal Movement into Everglades Marshes -- Kevin R. T. Whelan 1, Timothy A. Fotinos 2 and Robert B. Shamblin 3; 1National Park Service, Palmetto Bay, FL, USA, 2Florida International University, Miami, FL, USA
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284 Fire, Floodplains and Fish: Conservation of Native Fishes in the Riverine and Floodplain Wetlands of the Cosumnes River, California -- Michelle L. Stevens and Joshua L. Moore; CSU Sacramento Environmental Studies Dept, Sacramento, CA, USA; CSU Sacramento Environmental Studies Dept, Sacramento, CA, USA

271 Remote Sensing Approach for Monitoring the Flood Extent in the Amazon River Floodplain -- Allan S. Arnesen, Thiago S. F. Silva, Laura L. Hess and Evlyn M. L. M.Novo; Remote Sensing Division, National Institute for Space Research, S. José dos Campos, SP, Brazil; Earth Research Institute, University of California Santa Barbara, CA, USA

284 The Walk-A-Way System: A Multi-Benefit Planting Regime for Reintroducing Hard Mast into Wetland Restoration -- Mike Thompson and Ken Dalrymple; Wetlands Forever, Inc., Bartelso, IL, USA; SoggyBottom LLC, Annada, MO, USA
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285 Interannual Variation in Bulk Soil Properties in the Coastal Everglades -- Randolph M. Chambers, Rosemary L. Hatch and Timothy M. Russell, Keck Environmental Field Lab, College of William and Mary, Williamsburg, VA, USA

286 Methane Production Pathways in Subtropical (Everglades) and Tropical (Panama) Wetlands -- Beth Huettel, Jeffrey Chanton, Hee-Sung Bae and Andrew Oram; Florida State University, Tallahassee, FL, USA, University of Florida, Gainesville, FL, USA

287 Phenology of the Species of Tropical Forests wetlands in the Coastal Plain of Veracruz, Mexico -- Dulce Infante Mata, Patricia Moreno-Casasola and Carolina Madero-Vega; El Colegio de la Frontera Sur, Tapachula, CHIAPAS, MEXICO, Instituto de Ecologia A.C., Xalapa, VER, MEXICO

288 Multiple Tracer Study in a Small, Natural Wetland in the Humid Tropics of Costa Rica -- David A. Kaplan, Manon Bachelin, Congrong Yu and Rafael Munoz-Carprena; University of Florida, Gainesville, FL, USA, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland

289 Vegetation Changes along a Gradient of Salinity in the Ortega River of Northeast Florida -- Palmer Kinser, Clay Montague, Sandra Fox, Pete Sucsy and Ken Riddick; St. Johns River Water Management District, Palatka, Florida, USA, University of Florida, Gainesville, FL, USA

290 Drought and Large Fish Re-Colonization Have Variable Effects on Macroinvertebrates in Experimental Wetlands -- Natalie Knorp and Nathan J. Dorn, Department of Biological Sciences, Florida Atlantic University, Davie, FL, USA

291 What Drives Growth and Biodiversity of Algae in the Okavango Delta? -- Anson W. Mackay and Luca Marazzi, Environmental Change Research Centre, UCL, London WC1E 6BT, UK

292 Classifying Palm Swamp Wetland Ecosystems and Assessing their Inundation State Using High and Low Resolution Microwave Remote Sensing Datasets -- Erika Podest, Kyle McDonald, Ronny Schroeder, Naia Pinto, Reiner Zimmermann and Viviana Horna; Jet Propulsion Laboratory, Pasadena, CA, USA, City College of New York, New York City, NY, USA, University of Maryland, College Park, Maryland, USA, University of Hohenheim, Hohenheim, Germany, University of Bayreuth, Bayreuth, Germany

293 Land-Use History and Flood Regime as Drivers for Woody Species Diversity and Biomass Accumulation in Amazonian Floodplain Forests -- Christine M. Lucas, Pervaze Shiel, Jochen Schöngart, Florian Wittmann, Paul Gagnon and Maria T.F. Piedade; Department of Wildlife and Conservation, University of Florida, Gainesville, FL, USA, Congressional Research Service, The Library of Congress, Washington, DC, USA, Max Planck Institute for Chemistry, Mainz, Germany, Murray State University, Department of Biological Sciences, Murray, KY, USA, Instituto Nacional de Pesquisas da Amazônia, Manaus, AM, Brazil

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294 Clump Structures of Two Sedge Species Induced by Soil Moisture Regime in an Ephemeral Wetland -- Takashi Asaeda, Md Harun Or Rashid, Lalith Rajapakse and Jagath Manatunge; Saitama University, Sakura, Saitama, Japan, University of Moratuwa, Katubedda, Sri Lanka


296 Biogeomorphic Feedbacks Drive Dynamics of Vegetation–Landform Complex in a Coastal Riparian System -- Daehyun Kim, University of Kentucky, Lexington, KY, USA

297 Physiological Responses to Submergence in Tecticornia Species growing at Salt Lakes in Australia -- Dennis Konnerup, Ole Pedersen and Timothy David Colmer; University of Western Australia, Australia, University of Copenhagen, Denmark

298 Wetland Vegetation Reestablishment Following Large Sedimentation (Burial) Events -- Todd J. Lemein and Dennis Albert; Oregon State University, Corvallis, OR, USA

299 Impacts of Flooding on Successional Species Turnover in Restored Floodplain Wetlands -- Jeffrey W. Matthews, Geoffrey E. Pociask and Eric T. Plankell; Illinois Natural History Survey, Prairie Research Institute, University of Illinois, Champaign, IL, USA, Illinois State Geological Survey, Prairie Research Institute, University of Illinois, Champaign, IL, USA

300 Modelling Space-Time Dynamics of Wetland Vegetation of the Pantanal of Mato Grosso (Brazil) Based on Neighborhood Interaction and Flooding Effect -- J. Arleira, D. Karsenberg, C. Nunes da Cunha and E.G. Couto; Instituto Nacional de Ciência e Tecnologia em Áreas Úmidas (INAU)/ Federal University of Mato Grosso, Cuiabá-MT, Brazil, Department of Physical Geography, Faculty of Geosciences, Utrecht University, Utrecht, The Netherlands, Department of Soils, Faculty of Agronomy, Federal University of Mato Grosso, Cuiabá-MT, Brazil
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359 **Sulfur is a Potential Chemical Tool for Plant Invasions: An Insight from the Spartina Invasions** -- Shuqing An and Lu Xia, The Institute of Wetland Ecology and School of Life Science, Nanjing University, China

360 **The Wetlands Working Group: Opportunities for Collaborative Research in Tropical Wetlands of Panama** -- Omar R. Lopez1,2, Alexander W. Cheesman3, Jorge Hoyos1, Sofie Sjögersten1 and Benjamin L. Turner2; 1Institute of Advanced Scientific Research and High Technology Services (INDICASAT), Clayton, Republic of Panama, 2Smithsonian Tropical Research Institute, Balboa, Ancon, Republic of Panama, 3University of Nottingham, School of Biosciences, Sutton Bonington Campus, UK

361 **An Inundated Wetlands Earth System Data Record: Global Monitoring of Wetland Extent and Dynamics** -- Kyle C. McDonald1,2, Ronny Schroeder1,3, Bruce Chapman3, Erika Podest1, Marzieh Azarderakhsh1, Jane Whitcomb3, Mahta Moghaddam3, Lucas Jones3, John Kimball3 and Laura Hess1; 1City College of New York, New York City College of Technology, USA, 2JPL/California Institute of Technology, USA, 3The University of Michigan, USA, 4The University of Montana, USA, 5University of California Santa Barbara, CA, USA

362 **A Global Model of Human Impact on the Biodiversity of Wetlands and Aquatic Ecosystems** -- Jan H. Jansse1, M.H.J.L. Jeuken1, J.J. Kuiper1, J.R.M. Alkemade2 and J.T.A. Verhoeven3; 1PBL Netherlands Environmental Assessment Agency, Bilthoven, The Netherlands, 2Utrecht University, Utrecht, The Netherlands

363 **Genetic Diversity, Ecotype Hybrid and Mixture of Invasive Spartina alterniflora loisel in Coastal China** -- Lu Xia and Shuqing An, The Institute of Wetland Ecology and School of Life Science, Nanjing University, China
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<td>Jacoby</td>
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<td>Caroline</td>
<td>Chong</td>
<td>James Cook University</td>
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<td>Donald</td>
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<td>Daniel</td>
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<td>Environmental Science Associates</td>
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<td>Laboratory of Hydrology and Geochemistry, CNRS, France</td>
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<td>Iversen</td>
<td>Environmental Sciences Division/Ecosystem Science, Climate Change Science Institute</td>
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<td>City University of Hong Kong</td>
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<td>Lyndsay</td>
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<td>Lori</td>
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<td>Joy</td>
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### Monday, June 4, 2012 | 10:30am – 12:00pm

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<td>Moderator: Kelly Chinners Reiss, University of Florida, Gainesville, FL USA</td>
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<td>Moderator: Joy Marburger, Chesterton, IN, USA</td>
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<td>10:40 Reporting on Ecological Condition and Ecosystem Services for the 2011 National Wetland Condition Assessment -- Mary E. Kentula, Teresa K. Magee and Amanda M. Nahlik; U.S. Environmental Protection Agency, National Health and Environmental Effects Laboratory, Western Ecology Division, Corvallis, OR, USA</td>
<td>10:40 Impacts of the Deepwater Horizon Oil Spill and Recovery of Structure and Function in Coastal Salt Marshes -- Qianxin Lin and Irving A. Mendelssohn; Department of Oceanography and Coastal Sciences, School of the Coast and Environment, Louisiana State University, Baton Rouge, LA, USA</td>
<td>10:40 Novel Ecosystems Persist Following Control of the Invasive Grass Phalaris arundinacea (Reed Canary Grass) -- Carrie Reinhardt Adams and Philip Kauth; Environmental Horticulture Department, University of Florida, Gainesville, FL, USA</td>
<td>10:40 Peatland Restoration in a Changing Climate: Risks and Changes of Salinization in Coastal Peatlands -- Gijs van Dijk1, Alfons J.P. Smolders2, Roos Loeb1, Jan G.M. Roelofs1 and Leon P.M. Lammers1; 1B-Ware Research Center, Nijmegen, the Netherlands, 2Radboud University Nijmegen, the Netherlands</td>
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<td>11:00 Natural Resources Conservation Service’s Role in the National Wetland Condition Assessment -- L.M. Vasilas and P.S. King; USDA Natural Resources Conservation Service, Beltsville, MD, USA, USDA Natural Resources Conservation Service, Georgetown, DE, USA</td>
<td>11:00 Disturbance and Recovery of Salt Marsh Arthropod Communities Following BP Deepwater Horizon Oil Spill -- Brittany D. McCall and Steven C. Pennings, University of Houston, Houston, TX, USA</td>
<td>11:00 Cryptic Cattail Invasions in North American Wetlands: Impacts to Biodiversity -- Steven E. Travis and Joy E. Marburger; 1University of New England, Biddeford, ME, USA, 2National Park Service, Porter, IN, USA</td>
<td>11:00 The Effect of Saltwater Intrusion on Belowground Decomposition -- Camille L. Stagg1, Nicole Cormier1, Ken W. Krauss2 and William H. Conner; 1U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA, 2Clemson University, Baruch Institute of Coastal Ecology and Forest Science, Georgetown, SC, USA</td>
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<td>11:20 Level 1 Landscape Scale Analysis of Florida Wetland Condition -- Janet Dooley, Kelly Chinners Reiss and Mark T. Brown; HT Odum Center for Wetlands, University of Florida, Gainesville, FL, USA</td>
<td>11:20 Effects of Oil on The Rate and Trajectory of Louisiana Marsh Shoreline Erosion -- Giovanna McClanachan and R. Eugene Turner; Department of Oceanography and Coastal Sciences, Louisiana State University, Baton Rouge, LA, USA</td>
<td>11:20 Common Reed (Phragmites australis) Stands in Freshwater Marshes: ‘Biological Deserts’ Revisited -- Claude Lavoie and the PHRAGMITEs Research Group; Université Laval, Québec, QC, Canada</td>
<td>11:20 Climate Change Impacts on the Wetlands of Tabasco, Mexico -- L. Gama1, R. Collado-Torres1, C. Pacheco-Figueroa2, J. Valdez-Leal1, H. Diaz-Lopez1, C. Villanueva-García1, M. Arturo Ortiz-Perez2 and E. Mouguel-Ordoñez1; 1Universidad Juarez Autonoma de Tabasco, Villahermosa, Tabasco, Mexico, 2Instituto de Geografía, UNAM, DF, Mexico</td>
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<td>11:40 Reference Site Selection for the National Wetland Condition Assessment: Integrating Best Professional Judgment and Objective Selection Criteria -- Janet A Nesterode1, Gregg Serenbetz2, Michael E. Scozzafava3 and Mary Kentula3; 1US EPA National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL, USA, 2US EPA Office of Wetlands, Oceans, and Watersheds, Wetlands Division, Washington, DC, USA, 3US Environmental Protection Agency, Corvallis, OR, USA</td>
<td>11:40 Ecological Impacts of a Major Oil Sands Pipeline Spill into the Kalamazoo River and its Floodplain (Michigan) -- Desotelle, M.D. and S.K. Hamilton; W. K. Kellogg Biological Station, Michigan State University, Hickory Corners, MI, USA</td>
<td>11:40 Functional Basis for Geographical Variation in Growth Among Invasive Species: The Case of Lyngodeum microphyllum -- John C. Volin, University of Connecticut, Storrs, CT, USA</td>
<td>11:40 Planning for Inland Migration of Coastal Wetlands Due to Sea Level Rise in Louisiana -- Heidi Beck1, Alicia Bihler2, Melissa Kemm2, Sam Pardo3 and Douglas Perron1; 1Duke University, Beaufort, NC, USA, 2Duke University, Durham, NC, USA</td>
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| Session #5: Plant Microbial Interaction and Microbial Diversity in Wetlands  
[Bonaire 1 & 2] | Session #6: Carbon Sequestration  
[Bonaire 5 & 6] | Session #8: Interrelationships among Hydrological, Biodiversity and Land Use Features of the Pantanal (Brazil) and Everglades (Part 1 of 3)  
[Bonaire 7 & 8] |
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<td>Moderator: Kristin Byrd, U.S. Geological Survey, Menlo Park, CA, USA</td>
<td>Moderator: Li Zhang, The Ohio State University, Columbus, OH, USA</td>
<td>Moderator: Rudolf Jaffe, Florida International University, Miami, FL, USA</td>
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<td>10:40 Variation of Soil Microbial Community Structure and Activity along Ecohydrological Gradients -- Pascal Boeckx, B.L. Wajira K. Balasoonya, Dries Huygens, Niko Verhooest and Karolien Denef; Ghent University, Gent, Belgium, Universidad Austral de Chile, Valdivia, Chile, University of Colorado, Boulder, CO, USA</td>
<td>10:40 Carbon Sequestration by a Temperate Sedge-Grass Marsh -- Hana Cizkova, Jiri Dusek and Stanislav Stellner; Czech Global Change Research Centre, Ceske Budejovice, Czech Republic, Faculty of Agriculture, University of South Bohemia, Ceske Budejovice, Czech Republic</td>
<td>10:40 Identification and Enhancement of the Ecosystem Services from Created and Restored Wetlands: Olentangy River Wetlands to the Florida Everglades to the Planet -- William J. Mitsch, The Ohio State University, Columbus, OH, USA</td>
<td>10:40 The Role of Science in the Management of Pantanal and Everglades National Parks -- Jose Augusto Ferraz de Lima and Robert Johnson; Pantanal Mattogrossense National Park, Brazil, Everglades National Park, USA</td>
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<td>11:00 Characterization of Microbial Carbon Cycling Using Stable Isotope Approaches -- Lindsay Darjany, Christine Whitcraft and Jesse Dillon; California State University Long Beach, Long Beach, CA, USA</td>
<td>11:00 Strengthening the Century-Scale Global Estimate of Mangrove Organic Carbon Burial Rates -- Joshua L. Breithaupt, Joseph M. Smoak, Thomas J. Smith III, Christian J. Sanders and Armando Hoare; University of South Florida, Environmental Science, St. Petersburg, FL, USA, U.S. Geological Survey, Southeast Ecological Science Center, St. Petersburg, FL, USA, Universidade Federal de Fluminense (UFF), Departamento de Geoquímica, Niterói-RJ, Brazil</td>
<td>11:00 Changes in Forested Wetland Composition, Structure, and Processes along a Tidal Gradient on the Apalachicola River, FL, USA -- Christopher J. Anderson and B. Graeme Lockaby; School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL, USA</td>
<td>11:00 Comparative Studies in Support of Sustainable Management of the Pantanal and the Everglades -- Vic Engel and Paulo Teixeira de Sousa Jr; South Florida Natural Resources Center, Everglades National Park, Homestead, FL, USA, Centro de Pesquisas do Pantanal (Pantanal Research Centre), Federal University of Mato Grosso - Cuiabá-MT, Brazil</td>
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<td>11:20 Microbial Community Responses to Nutrient Enrichment in Wetland Soils -- Wyatt H. Hartman, Curtis J. Richardson, Scott C. Neubauer and P.V. Sundareswar; Duke Wetland Center, Nicholas School of the Environment, Duke University, Durham NC, USA, Baruch Field Laboratory, University of South Carolina, Columbia SC, USA, South Dakota School of Mines and Technology, Rapid City SD, USA</td>
<td>11:20 Quantifying Wetland Carbon Sequestration Potential in the Great Plains for Three Greenhouse Gas Emission Scenarios -- Kristin Byrd, Jamie Ratliff, Omar Abdul-Aziz, Norman Bliss, Anne Wein, Ben Sleet and Terry Soh; Western Geographic Science Center, USGS, Menlo Park, CA, USA, Florida International University, Miami, FL, USA, ARTS, contractor to USGS EROS, Sioux Falls, SD, USA, EROS, USGS, Sioux Falls, SD, USA</td>
<td>11:20 Carbon Sequestration in Coastal Freshwater Wetland Soils in Veracruz Mexico -- Maria E. Hernandez, Jose L. Marin-Muñiz and Patricia Moreno-Casasola; Institute of Ecology, Xalapa, Veracruz Mexico, University of Veracruz, Xalapa, Veracruz, Mexico</td>
<td>11:20 Ecomhydrological Background for the Conservation of Pantanal and Everglades National Parks -- Pierre Girard and Vic Engel; University of Mato Grosso/Pantanal Research Centre, Cuiabá-MT, Brazil, South Florida Natural Resources Center, Everglades National Park, Homestead, FL, USA</td>
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<td>11:40 Microbial Structure and Function in Fens: Responses to Climate Change -- Lucia Sekulova, Luca Bragazza and Alexandre Buttle; EPFL, Lausanne, Switzerland, Masaryk University, Brno, Czech Republic, WSL- Swiss Federal Institute for Forest, Snow and Landscape Research, Lausanne, Switzerland, University of Ferrara, Ferrara, Italy, University of Franche-Comté, Besançon, France</td>
<td>11:40 An Inconvenient ‘Wetland’ Truth -- The Need to Consider Peatland-Geoengineering Schemes -- Christian Dunn, Nathalie Fenner and Chris Freeman; Wolfson Carbon Capture Laboratory, School of Biological Sciences, Bangor University, Gwynedd, UK</td>
<td>11:40 Discussion</td>
<td>11:40 Land-Use Change and Water Management Associated with Societal and Ecological Developments In the Pantanal and the Everglades -- Richard Weisskoff, Shimon Wdowinski and Peter Zellhofer; University of Miami, Miami, FL, USA, Universidade Federal de Mato Grosso, Cuiaba, Brazil</td>
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<td><strong>Session #10: The Ramsar Convention and SWS - Linking Science to International Policy (Part 1 of 2)</strong></td>
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<td>Moderator: Mark Brown, University of Florida, Gainesville, FL, USA</td>
<td>Moderator: Robert McInnes, RM Wetlands &amp; Environment, Faringdon, United Kingdom</td>
<td>Moderator: Marjorie Zeff, URS Corporation, Fort Washington, PA, USA</td>
<td>Moderator: Dale Gawlik, Florida Atlantic University, Boca Raton, FL, USA</td>
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<td>10:40 Vegetation Response to Feral Hog (<em>Sus scrofa</em>) Disturbance in Seepage Slope Wetlands -- Megan Brown and Debbie Miller</td>
<td>10:40 The Effect of Nutrient Supply on the Primary Production and the Participation of <em>Phalaris Arundinacea</em> in a Wet Grassland Plant Community -- Miroslava Káplová, Keith R. Edwards and Jan Květ; 1Department of Ecosystems Biology, Faculty of Science, University of South Bohemia, Ceské Budějovice, Czech Republic; 2CzechGlobe, Center for Global Change Research, Czech Academy of Sciences, Ceské Budějovice, Czech Republic</td>
<td>10:40 The Effect of Nutrient Supply on the Primary Production and the Participation of <em>Phalaris Arundinacea</em> in a Wet Grassland Plant Community -- Miroslava Káplová, Keith R. Edwards and Jan Květ; 1Department of Ecosystems Biology, Faculty of Science, University of South Bohemia, Ceské Budějovice, Czech Republic; 2CzechGlobe, Center for Global Change Research, Czech Academy of Sciences, Ceské Budějovice, Czech Republic</td>
<td>10:40 Hydrologic Variability as a Global Driver of Colonial Waterbird Nesting -- Dale E. Gawlik and Richard T. Kingsford; 1Environmental Sciences Program, Florida Atlantic University, Boca Raton, FL, USA; 2Australian Wetlands and Rivers Centre, University of New South Wales, Sydney, NSW, Australia</td>
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<td>11:00 Balancing Economic and Environmental Production: The Role of Wetlands in Sustainable Regions -- David A. Pfahler</td>
<td>11:00 Water Quality Issues in Ramsar Wetlands -- J. T. A. Verhoeven, Ecology and Biodiversity, Department of Biology, Utrecht University, The Netherlands</td>
<td>11:00 Silicon Availability Modifies the C:N:P Stoichiometry and Contents of Carbon Compounds in Grasses -- Jörg Schaller, Institute of General Ecology and Environmental Protection, University of Technology Dresden, Tharandt, Germany</td>
<td>11:00 Dry Disturbance and Fish Reduction Produce Enhanced Crayfish Densities in a Freshwater Wetland -- Nathan J. Dorn and Mark I. Cook; 1Department of Biological Sciences, Florida Atlantic University, Davie, FL, USA; 2South Florida Water Management District, West Palm Beach, FL, USA</td>
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<td>11:40 Rethinking Adaptive Management as a Science-Policy Bridge: How Do We Engineer the Bridge? -- Rachel Pawlitz, University of Florida, School of Natural Resources and Environment, Gainesville, FL, USA</td>
<td>11:40 Managing Environmental Flows to an Australian Ramsar Wetland, the Macquarie Marshes: Flooding Regimes for Wetland Vegetation -- Rachael F. Thomas, Yi Lu, Steve Cox, Sharon Bowén, Shannon Simpson and Shiquan Ren; 1Australian Wetlands and Rivers Centre, University of New South Wales, Kensington, NSW, Australia, 2Office of Environment and Heritage, Sydney, NSW, Australia, 3NSW Office of Water, Parramatta, NSW, Australia</td>
<td>11:40 Nutrient Processing within Coastal Prairie Wetlands: A Nexus to Galveston Bay, TX -- Maggie G. Forbes, Jeffrey Back and Robert D. Doyle, Baylor University, Center for Reservoir and Aquatic Systems Research, Waco, Texas, USA</td>
<td>11:40 Marine Subsidies Delivered by Birds to Mangrove Forests -- Adame, M. F., J. Caamal, J.N. Gamboa and J.A. Herrera-Silveira; Centro de Investigación y Estudios Avanzados (CINVESTAV-IPN); Mérida, Yucatán, México</td>
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**Monday, June 4, 2012 | 1:30pm – 3:00pm**
| Session #17: Trace Metals  
[Bonaire 1 & 2] | 17 | 18 | 19 | 20 |
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<td>Moderator: Rick Black, Environ, Salt Lake City, UT, USA</td>
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| 1:40 | Methylmercury Production in Everglades National Park: Biogeochemical Drivers and Implications for Restoration -- David Krabbenhoft, John DeWild, Charlie Thompson, Jacob Ogorek, George Aiken, William Orem, Jeffrey Kline and Joffre Castro; U.S. Geological Survey, Middleton, WI, USA, U.S. Geological Survey, Boulder, CO, USA, U.S. Geological Survey, Reston, VA, USA, National Park Service, Everglades National Park, Homestead, FL, USA | 1:40 | Land Area Change in Coastal Louisiana from 1932 to 2010 -- Brady R. Couvillion, John A. Barras, Gregory D. Steyer, William Sleavin, Michelle R. Fischer and Holly Beck; U.S. Geological Survey, Baton Rouge, LA, USA; Noble Supply and Logistics, Granby, CT, USA; Five Rivers Services, LLC, Baton Rouge, LA, USA | 2:00 | A New Subsidence Curve for Mississippi River Delta Tide Gauges and its Implications for Coastal Restoration -- Alexander S. Kolker, Mead A. Allison and Sultan Hameed; Louisiana Universities Marine Consortium, Chauvin, LA, USA; University of Texas at Austin, Austin, TX, USA; Stony Brook University, Stony Brook, NY, USA | Session #18: Mississippi River Delta: Delta Deterioration and the Pathway Forward  
[Bonaire 3 & 4] | Moderator: Alisha Renfro, National Wildlife Federation, New Orleans, LA, USA | 1:40 | Meeting the Challenge of Barrier Island Restoration: An Overview of the LCA Terrebonne Basin Barrier Shoreline Restoration Planning Process -- A. Bass; CH2MILL, Baton Rouge, LA, USA | 2:40 | Tidal Flux of Dissolved Organic Carbon, Total Mercury, and Methylmercury from Shark River Estuary -- Brian A Bergamaschi; David P Krabbenhoft, George R Aiken, Eduardo Patino, Darren G. Rumbold and William H Orem; U.S Geological Survey California Water Science Center, Sacramento CA, USA; U.S Geological Survey Wisconsin Water Science Center, Madison WI, USA; U.S Geological Survey National Research Program, Boulder CO, USA; U.S Geological Survey Florida Water Science Center, St. Petersburg, FL, USA; Florida Gulf Coast University, Ft. Myers, FL, USA; U.S Geological Survey, Reston VA, USA | 2:20 | Carbon Sequestration in Tropical Wetlands of Costa Rica -- Blanca Bernal and William J. Mitsch; Wilma H. Schiermeier Olentangy River Watershed Research Park, The Ohio State University, Columbus, OH, USA | 1:40 | The Regulation of Greenhouse Gas Fluxes by Wetlands at Landscape Level -- Úlo Mander, Martin Maddison, Kaido Soosaar, Jüri-Ott Salm, Järvi Jarveoja and Raill Hansen; Department of Geography, University of Tartu, Estonia | 1:40 | Seedling Recruitment in Variable Hydrologic Regimes -- Douglas J. Spiegels, Miranda Carter, Simonne Benoit, and Jackson Means; McPhail Center for Environmental Studies, Denison University, Granville, OH, USA | 2:20 | Carbon Export and Budget of Created Wetlands: Importance of Hydrology -- Evan J. Waletzko and William J. Mitsch; The Ohio State University, Columbus, OH, USA | 2:40 | Integrating Science, Policy, and Stakeholder Outreach to Accelerate Restoration -- Angelina M. Freeman; G. Paul Kemp and Alisha Renfro; Environmental Defense Fund, Washington, DC, USA; National Audubon Society, Baton Rouge, LA, USA; National Wildlife Federation, New Orleans, LA, USA | 1:40 | Session Overview | 2:00 | Carbon Deterioration in Freshwater During Accumulation/Remobilization | 2:40 | Effects of Seasonal Hydrology on Fish Dynamics in Subtropical Freshwater Wetlands: A Comparative Study between the Pantanal and the Everglades -- I.A. Ferraz and J.S. Rehage; Pantanal National Park, Cuiaba, Brazil; Florida International University, Miami, FL, USA | 1:30 | Session Overview | 1:40 | The Regulation of Greenhouse Gas Fluxes by Wetlands at Landscape Level -- Úlo Mander, Martin Maddison, Kaido Soosaar, Jüri-Ott Salm, Järvi Jarveoja and Raill Hansen; Department of Geography, University of Tartu, Estonia | 1:30 | Session Overview | 2:00 | Habitat Use by Wildlife in Agricultural and Ranching Areas in the Pantanal and Everglades -- Julio Souza and Elise Pearlstine; Universidade Federal de Mato Grosso do Sul, Aquidauana, Brazil; University of Florida, IFAS, Belle Glade, FL, USA | 2:20 | Landscape Ecology Approaches for the Conservation of Pantanal and Everglades Vegetation -- C. Nunes da Cunha and J.Richards; Universidade Federal de Mato Grosso, Cuiabá, MT, Brazil; Florida International University, Miami, FL, USA | 1:30 | Session Overview | 1:40 | Conceptual Model of Human and Natural Systems Interactions in the Agricultural and Ranching Areas in the Everglades and Pantanal -- Elise V. Pearlstine, Rena R. Borkhataria and Scott Markwith; University of Florida, IFAS, Belle Glade, FL, USA; Florida Atlantic University, Boca Raton, FL, USA | 2:00 | Session Overview | 1:40 | Conceptual Model of Human and Natural Systems Interactions in the Agricultural and Ranching Areas in the Everglades and Pantanal -- Elise V. Pearlstine, Rena R. 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### Session #21: Adaptive Management of Water, Wetlands, and Watersheds (AMw3) the Africa Experience (Part 2 of 2)

**Moderator:** Mark Brown, University of Florida, Gainesville, FL, USA

**1:30 **Session Overview

**1:40 **Species Distribution Models for Investigating Potential Change in Floodplain Vegetation in Large Flood-Pulsed Tropical Wetlands -- Michael Murray-Hudson\(^1\), Piotr Wolski\(^2\), Mark T. Brown\(^3\) and Thomas Davidson\(^4\); 1Okavango Research Institute, University of Botswana, Maun, Botswana, 2Howard T. Odum Center for Wetlands, University of Florida, Gainesville, FL, USA, 3Dept Biosciences, Aarhus University, Copenhagen, Denmark

2:00 Time Series of Inundation in Flood-Pulsed Wetlands from Thermal and Radar Imagery -- Narcisa Pricope; Southern Oregon University, Ashland, OR, USA

2:20 Predictors of Knowledge-Sharing Behaviors among Community-Based Natural Resources Organizations in the Okavango Delta, Botswana -- Olekae T. Thakadu\(^1\), Tracy Irani\(^2\), and Ricky Teig; University of Botswana, Okavango Research Institute, Maun, Botswana, University of Florida, Department of Agricultural Education & Communication, Gainesville, FL, USA

2:40 Communication, Social Networks, and Perceptions of Water and Wildlife in the Okavango Delta, Botswana -- Deborah J. Wojcik\(^3\) and Martha C. Monroe\(^4\); 1University of Florida, Gainesville, FL, USA, 2Stanford University, Stanford, CA, USA

### Session #22: The Ramsar Convention and SW - Linking Science to International Policy (Part 2 of 2)

**Moderator:** Robert McInnes, RM Wetlands & Environment, Faringdon, United Kingdom

**1:30 **Session Overview

**1:40 **Socio-economic Dimensions to Wetland Science -- Ritesh Kumar, Wetlands International – South Asia, New Delhi, India

2:00 The Intersection of Wetland Law, Policy, and Science through the Ramsar Convention -- Royal Gardner, Stetson University College of Law, Gulfport, FL, USA

2:20 Development of a New Framework of Cooperation between Ramsar STRP and SWS -- G.P. Lukas\(^1\) and N.C. Davidson\(^2\); 1James Cook University, Townsville, Queensland, Australia, 2Ramsar Convention Secretariat, Gland, Switzerland

2:40 Discussion

### Session #23: Patterns and Drivers of Peatland Carbon Storage

**[Curacao 5 & 6]**

**Moderators:** Tiffany Troxler, Florida International University, Miami, FL, USA, and Brian Benscoter, Florida Atlantic University, Davie, FL, USA

1:30 Session Overview

1:40 Carbon Dynamics in High Latitude Peatlands: Effects of Permafrost Thaw -- Kimberly P. Wickland\(^1\), Jonathan A. O’Donnell\(^2\), Jennifer W. Harden\(^3\), M. Torre Jorgenson\(^4\), Mikhail Z. Kanevskiy\(^5\), Stephanie A. Ewing\(^6\), Carmel Johnston\(^7\); 1U.S. Geological Survey, Boulder, CO, USA, 2U.S. Geological Survey, Menlo Park, CA, USA, 3Alaska Ecosciences, Fairbanks, AK, USA, 4University of Alaska-Fairbanks, Fairbanks, AK, USA, 5Montana State University, Bozeman, MT, USA

2:00 Effects of Peatland Drainage on Dissolved Organic Carbon Quality and Quantity -- Evan S. Kane\(^1\), John A. Hribiljan\(^2\), Merritt R. Turetsky\(^3\), Rodney A. Chinner\(^4\); 1Michigan Tech. University, Houghton, MI, USA, 2University of Guelph, Guelph, Ontario, Canada

2:20 Hydrologic Modification and Peat Dynamics in the Everglades Ridge-Slough Mosaic -- Danielle L. Watts\(^1\), Matthew J. Cohen\(^2\), James B. Heffernan\(^3\); 1Stanford University, Stanford, CA, USA, 2Stanford University, Durham, NC, USA

2:40 Relating Self-regulation with Ecosystem Structure and Function in Northern Peatlands -- Avni Malhotra, Nigel Rotule, McGill University, Montreal, QC, Canada

### Session #24: Scientific Evaluation of Wetland Restoration (Part 1 of 2)

**[Curacao 7 & 8]**

**Moderator:** Nicholas Aumen, Everglades National Park, Boynton Beach, FL, USA

1:30 Session Overview

1:40 Performance Measures and Adaptive Management of the Florida Everglades -- Rebekah E. Gibble\(^1\) and Donatto D. Surratt\(^2\); 1A.R.M. Loxahatchee National Wildlife Refuge, U.S. Fish and Wildlife Service, Boynton Beach, FL, USA, 2Everglades National Park c/o A.R.M. Loxahatchee National Wildlife Refuge, Boynton Beach, FL, USA

2:00 Adapting Restoration Performance Measures to the A.R.M. Loxahatchee National Wildlife Refuge -- Donatto D. Surratt\(^1\), Rebekah E. Gibble\(^2\); 1Everglades National Park c/o A.R.M. Loxahatchee National Wildlife Refuge, Boynton Beach, FL, USA, 2A.R.M. Loxahatchee National Wildlife Refuge, Boynton Beach, FL

2:20 Evaluation of Vegetation Data as a Management Tool in Everglades National Park -- Jimi Sadle, Everglades National Park, Homestead, FL, USA

2:40 Ecosystem-Wide Assessment of Wetland Restoration Using Periphyton-Based Metrics -- Evelyn Gaiser, Florida International University, Miami, FL, USA
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<td><strong>Session #25: 2011 National Wetland Condition Assessment (Part 3 of 3)</strong></td>
<td><strong>Session #26: Hindcasts and Futurecasts Link Hydrology and Ecology in the Coastal Everglades</strong></td>
<td><strong>Session #27: Novel Ecosystems: Climate Change and Summary (Part 3 of 3)</strong></td>
<td><strong>Session #28: Tropical Floodplain Eco-systems: Comparative Analyses across Scales and Biomes</strong></td>
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<td>[Grand Sierra Ballroom B]</td>
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<td><strong>4:00 Basis for Developing Alternate Numeric Dissolved Oxygen Criteria for Florida’s Freshwater Wetlands – Robert F. Compton, Kelly C. Reiss, and Mark T. Brown; HT Odum Center for Wetlands, University of Florida, Gainesville, FL, USA</strong></td>
<td><strong>4:00 Using Modern Hurricane Wind Data to Supplement Hydrodynamic Hindcast and Futurecast Models – M. Dennis Krohn, Eric D. Swain, Catherine A. Langtimm, and Thomas J. Smith, III; U.S. Geological Survey, Coastal and Marine Science Center, St. Petersburg, FL, USA, U.S. Geological Survey, Florida Water Science Center, Ft. Lauderdale, FL USA, U.S. Geological Survey, Southeast Ecological Science Center, Gainesville, FL USA</strong></td>
<td><strong>4:00 History and Implications of the Novel Ecosystem Concept – Arnold G. van der Valk; Iowa State University, Ames, IA, USA</strong></td>
<td><strong>4:20 Hydrological Drivers of Organic Matter Quality, Mineralization, and Export in a Tropical Dam-Impacted Floodplain System – Roland Zurbrügg, Stephan Suter, Moritz F. Lehmann, Bernhard Wehrli, and David B. Senn; ETH Zürich, Institute of Biogeochemistry and Pollutant Dynamics, Zürich, Switzerland, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Surface Waters - Research and Management, Kastanienbaum, Switzerland, University of Basel, Institute of Environmental Geosciences, Basel, Switzerland</strong></td>
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<td><strong>4:40 Lessons Learned from the 2011 National Wetland Condition Assessment – Dennis McCaulley, Jamie Saxton, Chris Turner, and Michael Scozzafora; Great Lakes Environmental Center, Inc., Traverse City, Michigan, USA, US EPA Office of Water, Washington, DC, USA</strong></td>
<td><strong>4:40 Hindcasts and Futurecasts Link Hydrology and Ecology in the Coastal Everglades</strong></td>
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## Session #29: An Integrated Approach for Sustainable Use of Wetlands

**Moderator:** Wolfgang Junk, Federal University of Mato Grosso, Cuiabá, Brazil

**Panelists:**
- **INAU, Mato Grosso, Brazil**
- **Michèle Sato**
- **communication Reinvention**
- **4:40 Áreas Úmidas (INAU)**
- **Nacional de Ciência e Tecnologia em Dall’Oglio**
- **Paulo T. de Sousa Jr**
- **Sustainable Use of Wetlands**
- **Grosso**

**Panelists:**
- **C. Soares**
- **J.M. Penha**, **V. Layme**
- **M. Aragona**
- **C. Strüssmann**
- **National Institute for Science and Technology in Wetlands (INCT-INAU)**
- **Federal University of Mato Grosso, Cuiabá, Brazil**

**Moderator:** Wolfgang Junk, USDA-ARS, Florence, SC, USA

**Panelists:**
- **Universidade Federal de Mato Grosso**

**Moderator:** Patrick Hunt, USDA-ARS, Florence, SC, USA

**Panelists:**
- **3:40 Habitat Classification of Wetlands: A Powerful Tool for Research, Management, and Protection -- Wolfgang J. Junk**
- **National Institute for Science and Technology in Wetlands (INCT-INAU)**
- **Federal University of Mato Grosso, Cuiabá, Brazil**

**Panelists:**
- **4:20 Bioprospection for the Sustainable Use of Wetlands -- Paulo T. de Sousa Jr**, **Claudia L. Strada**, **Eliana F.C. Dores**, **Li Dall’Oglio**
- **Universidade Federal de Ciência e Tecnologia em Áreas Úmidas (INAU)**
- **Universidade Federal de Mato Grosso (UFMT)**

**Panelists:**
- **4:40 Science and Culture on Education and Communication Reinvention -- Michèle Sato**
- **GPEA, UFMT, CPP, INAU, Mato Grosso, Brazil**

## Session #30: Indicators of Restoration Performance Measure in Wetland in Soils (IRIS) Tubes as a Laboratory, Lafayette, LA, USA

**W. Hester**, **University of Louisiana at Lafayette**

**Panelists:**
- **4:00 Vegetation Succession of Created Wetlands in Ohio -- Kay C. Stefanik** and **William J. Mitsch**
- **Olentangy River Wetland Research Park**
- **The Ohio State University, Columbus, OH, USA**

**Panelists:**
- **4:40 Use of Indicator of Reduction in Soils (IRIS) Tubes as a Performance Measure in Wetland Restoration -- David M. Mahnken**
- **E Sciences, Inc., Orlando, FL, USA**

**Panelists:**
- **4:40 Dissuasion**

## Session #31: Olentangy River Wetland Research Park: Investigating Wetland Ecosystem Services at Multiple Landscape Scales (Part 3 of 3)

**Moderator:** Chris Anderson, Auburn University, Auburn, AL, USA

**Panelists:**
- **3:30 Session Overview**
- **3:40 Determining the Role of Alteration of Riparian Plant Community Structure Under Climate Change Scenarios: The Effects of Temperature and Hydroperiod -- Neal Flanagan**
- **Curtis J. Richardson**, **Mengchi Ho**, **Duke University**
- **3:40 Vegetation Succession of Created Wetlands in Ohio -- Kay C. Stefanik** and **William J. Mitsch**
- **Olentangy River Wetland Research Park, The Ohio State University, Columbus, OH, USA**

**Panelists:**
- **4:20 Wetland Carbon Dynamics in the Eastern Tibetan Plateau -- Li Zhang**, **Zhiming Lv**
- **Zhejiang University, China**
- **4:20 Wetland Carbon Dynamics in the Eastern Tibetan Plateau -- Li Zhang**, **Zhiming Lv**
- **Zhejiang University, China**

**Panelists:**
- **4:40 Dissolved Organic Matter in Large, Subtropical, Freshwater Wetlands: A Comparative Study Between the Pantanal, Everglades and Okavango Delta -- R. Jaffé**
- **K. Cawley**
- **N. Hertkorn**
- **C. Nunes da Cunha**
- **P. Wolski**
- **D. Calheiros**
- **Florida International University, Miami, FL, USA**
- **Helmholtz Center, Munich, Germany**
- **Universidad Federal de Mato Grosso, Cuiabá, Brazil**
- **University of Botswana, Maun, Botswana**
- **Embrapa, Curumba, Brazil**

**Panelists:**
- **4:20 The Influence of Abiotic and Biotic Seed Dispersal Vectors on Vegetation Structure in the Everglades and Pantanal -- Scott Markwith**
- **And Erich Fischer**
- **Florida Atlantic University, Boca Raton, FL, USA**
- **Universidade Federal de Mato Grosso do Sul, Campo Grade, MS, Brazil**

**Panelists:**
- **4:40 Discussion**
### Session #33: Integrating Biophysical and Economic Values of Wetlands

[Curacao 1 & 2]

**Moderator:** Mark Brown, University of Florida, Gainesville, FL, USA

3:30 Session Overview

3:40 Integrating Biophysical and Economic Values of Wetlands -- Mark T. Brown; University of Florida, Gainesville, FL, USA

4:00 Integrating Biophysical and Economic Values of Wetlands: Recent Advances in Ecosystem Service Valuation -- Damian C. Adams; University of Florida, Gainesville, FL, USA

4:20 Ecosystem Services of Restored Freshwater Wetlands of the Agricultural Midwest: Measurement and Valuation -- Christopher Craft, Ania Hopple, John Marton, Brianna Richards, and Siobhan Fennessy; School of Public and Environmental Affairs, Indiana University, Bloomington, IN, USA, Department of Biology, Kenyon College, Gambier, OH, USA

4:40 Money and Embodied Energy-Based Valuation for Wetlands Utilization of Wastewater Treatment -- Jae-Young Ko; Texas A & M University at Galveston, Galveston, TX, USA

### Session #34: Impact of Peatland Fires on Ecosystem Function and Feedbacks to Climate: A Global Perspective (Part 1 of 2)

[Curacao 3 & 4]

**Moderator:** Brian Bencsoter, Florida Atlantic University, Davie, FL, USA, and, Merritt Turetsky, University of Guelph, Guelph, ON, Canada

3:30 Session Overview

3:40 Fire and Carbon Cycling in Boreal North American Peatlands -- Brian W. Bencsoter and Merritt R. Turetsky; Department of Biological Science, Florida Atlantic University, Davie, FL, USA, Department of Integrative Biology, University of Guelph, Guelph, Ontario, Canada

4:00 Effects of Permafrost Thaw on Northern Peatland Methane Emissions -- M.R. Turetsky; Department of Integrative Biology, University of Guelph

4:20 Smouldering Mega-fires in Wetlands and Positive Feedbacks to the Climate System -- Guillermo Rein and Rory Hadden; University of Edinburgh, UK

4:40 Smouldering Combustion of Organic Soils on the North Carolina Coastal Plain -- J. Reardon and Gary M Curbio; U.S. Forest Service, RMRS Fire Science Laboratory, Missoula, MT, USA, 1IPA Fire Environment Specialists, Kinston, NC

### Session #35: Invading Species -- Plants

[Curacao 5 & 6]

**Moderator:** Jennifer Sagan, Water & Air Research, Inc., Gainesville, FL, USA

3:30 Session Overview

3:40 Parallel Universes: Remarkable Similarities in the Siege of Invasive Species on Florida and Hawaii -- Steven C. Hess and Lloyd L. Loope; U.S. Geological Survey Pacific Island Ecosystems Research Center, Kilauea Field Station, HI, USA, U.S. Geological Survey Pacific Island Ecosystems Research Center, Maui Field Station, HI, USA

4:00 Habitats Invaded by European Frogbit (Hydrocharis morsus-ranae) in Lake Ontario Coastal Wetlands -- Brad M. Mudrznyski, Douglas A. Wilcox and Aaron W. Heminway; Department of Environmental Science and Biology, The College at Brockport, State University of New York, Brockport, NY, USA

4:20 Effects of Introduced Spartina alterniflora on the Benthic and Aerial Macroinvertebrates in the Salt Marsh -- Chunfu Tong; State Key Laboratory of Estuarine and Coastal Research, East China Normal University, Shanghai, China

4:40 Endangered Species Recovery vs. Eradication of an Invasive Ecosystem Engineer: The Surprising Story of the Invasive Spartina Project - Drew W. Kerr; San Francisco Estuary Invasive Spartina Project, Berkeley, CA, USA

### Session #36: Emerging Science in the Management of Wetlands (Part 2 of 2)

[Curacao 7 & 8]

**Moderator:** Nicholas Aumen, Everglades National Park, Boynton Beach, FL, USA

3:30 Session Overview

3:40 Hydrologic Influences on Water Quality in Blue Cypress Marsh Conservation Area -- Angelique M. K. Bochnak, Steven J. Miller, Lawrence W. Keenan, and Dean Dobberpuhl; St. John’s River Water Management District, Palatka, FL, USA

4:00 Understanding the Invasion and Management of Melaleuca quinquenervia from Top-down to Bottom-up -- Melissa R. Martin; Philip W. Tipping, and K.R. Reddy; United States Fish and Wildlife Service, A.R.M. Loxahatchee National Wildlife Refuge, Boynton Beach, FL, USA, United States Department of Agriculture, Agricultural Research Service, Invasive Plant Research Laboratory, Fort Lauderdale, FL, USA, University of Florida, Department of Soil and Water Science, Gainesville, FL, USA

4:20 Soil Nutrient Storage and Cycling in the Restored Kissimmee River Floodplain -- Todd Z. Osborne; Vimala D. Nair, Larry R. Ellis, Brad Jones, and Willie Harris; Soil and Water Science Department, University of Florida, Gainesville, FL, USA, Lake and River Ecosystems Section, South Florida Water Management District, West Palm Beach, FL, USA

4:40 Water Quality Constrains Hydrologic Management Options for a Northern Everglades Peatland - Paul V. McCormick; Michael G. Waldon, Rebekah E. Gibble, and Eric S. Crawford; Joseph W. Jones Ecological Research Center, Newton, GA, USA, Arthur R. Marshall Loxahatchee National Wildlife Refuge, Boynton Beach, FL, USA, South Florida Water Management District, West Palm Beach, FL, USA
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| **Session #37: GEER Plenary Session – Restoring the Heart of the Everglades**  
[Grand Sierra Ballroom B]  
Moderator: G. Ronnie Best, USGS, Ft. Lauderdale, FL, USA  
10:30 Session Overview  
10:40 – 12noon Panelists: Shannon Estenoz, Col. Al Pantano, Melissa Meeker and Dan Kimball  
This panel will focus on bringing restoration to the heart of the Everglades. Panelists will discuss opportunities for collaboration of federal, state and local partners to merge water quality, water quantity and greater flow through the Central Everglades. | **Session #38: Climate Change Management**  
[Grand Sierra Ballroom C]  
Moderator: Lance Gunderson, Emory University, Atlanta, GA, USA  
10:30 Session Overview  
10:40 Managing Crises, Climate Change and Ecological Resilience in Complex Resource Systems -- Lance Gunderson1, Kathleen D. White1;  
Emory University, Atlanta GA USA,  
1U.S. Army Corps of Engineers, Institute for Water Resources, Washington DC USA  
11:00 Enhanced Adaptive Management for Everglades in Response to Climate Change -- Matteo Convertino1,2, Christy M. Foran1, Jeffrey M. Keisler1, Lynn Scarlet, Andy LoSchiavo1, Gregory A. Kiker2 and Igor Linkov2;  
1United States Army Corps of Engineers, Engineer Research and Development Center, Environmental Laboratory, Concord, MA, USA,  
2Agricultural and Biological Engineering Department, University of Florida, Gainesville, FL, USA,  
3University of Massachusetts, Boston, Department of Management Science and Information Systems, Boston MA, USA,  
4Resources for the Future, Washington, DC, USA,  
5US Army Corps of Engineers, Jacksonville District, Jacksonville, FL, USA  
11:20 Climate Change and Western Australian Aquatic Ecosystems: Impacts and Adaptation -- Jane Chambers1,  
Frances D’Souza2, Romeny Lynch3, Michael Coote3 and Kirsi Kauhanen4,5;  
1Environmental Science, Murdoch University, WA, Australia,  
2Western Australian Department of Water, Australia,  
3Western Australian Department of Environment and Conservation, Australia,  
4National Climate Change Adaptation Research Facility (WA node of Water Resources & Freshwater Biodiversity), Australia  
11:40 Water and Plants Regulate Temperatures and Local Climate -- A Case Study from Třeboň Biosphere Reserve -- Jan Pokorný1 and Petra Hesslerová1,2;  
ENKI, o.p.s. Třeboň, Czech Republic,  
1Czech University of Life Sciences, Faculty of Environmental Sciences, Prague, Czech Republic  
2Environmental Sciences, Prague, Czech Republic | **Session #39: Ecology of Tree Islands in the Everglades**  
[Antigua 1 & 2]  
Moderator: Sharon Ewe, Ecology and Environment Inc., Wellington, FL, USA  
10:30 Session Overview  
10:40 Ecological Patterns and Processes in Ghost Tree Islands of the Everglades -- Sharon M. L. Ewe1, Binhe Gu2, Jennifer Vega3 and Kristin Vaughan3;  
3Ecology and Environment Inc., Wellington, FL, USA,  
4South Florida Water Management District, West Palm Beach, FL USA  
11:00 Soil Phosphorus Characteristics in Tree Islands of the Florida Everglades -- Daniel L. Irick1, Yuncong Li1, Patrick W. Inglett1, Willlie Harris1, Binhe Gu2, Michael Ross3 and Alan Wright1;  
1University of Florida, Gainesville, FL, USA,  
2South Florida Water Management District, West Palm Beach, FL, USA,  
3Florida International University, Miami, FL, USA  
11:20 The Influence of Salinity on Coastal Hammocks in Everglades National Park -- Sonali Saha1 and Jimi Sadle1;  
1The Institute for Regional Conservation, FL, USA,  
2Everglades National Park, FL, USA  
11:40 Hydrology, Substrate Type and Density Effects on Species Growth and Survival in Created Everglades Tree Islands -- Susana L. Stoffella1, Michael S. Ross1, Jay P. Sah1, Pablo Ruiz1 and Eric Cline1;  
1Southeast Environmental Research Center, Florida International University, Miami, FL, USA,  
2South Florida Water Management District, Everglades Division, West Palm Beach, FL, USA  
11:40 A Test of the Nutrient Redistribution Hypothesis in the Everglades Ridge and Slough Landscape -- Morgan Maglio, Laurel Larsen, Gregory Nee and Judson Harvey; U.S. Geological Survey, National Research Program, Reston, VA USA | **Session #40: Plant-nutrient Interactions in Tropical Wetlands**  
[Antigua 3 & 4]  
Moderator: Omar Lopez, Institute of Advanced Scientific Research and High Technology Services (INDICASAT), Clayton, Panama  
10:30 Session Overview  
10:40 Plant–Nutrient Interactions in a Neotropical Ombrotrophic Peatland -- Alexander W. Cheesman1, Jorge Hoyos2, Omar Lopez2, Sofie Sjogren3 and Benjamin L. Turner1;  
1Smithsonian Tropical Research Institute, Balboa, Ancon, Republic of Panama,  
2University of Nottingham, School of Biosciences, Sutton Bonnington Campus, UK,  
3Institute of Advanced Scientific Research and High Technology Services (INDICASAT), Clayton, Republic of Panama  
11:00 Latitudinal Variations in Ecological Stoichiometry in Mangrove Communities: What is the Impact of Nutrient Loading on Canopy and Benthic Food Webs? -- Ilka C. Feller1, Anne H. Chamberlain1 and Catherine E. Lovelock1;  
1Smithsonian Environmental Research Center, Smithsonian Institution, Edgewater, MD, USA,  
2Centre for Marine Studies/School of Integrative Biology, University of Queensland, St Lucia  
11:20 Considering Nitrogen and Black Mangrove (Avicennia germinans) in Context: Lessons Learned -- Christine N. Pickens1, Karen L. McKe1 and Mark W. Hester1;  
1Department of Biology, University of Louisiana at Lafayette, Lafayette, LA, USA,  
2U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA  
11:40 A Test of the Nutrient Redistribution Hypothesis in the Everglades Ridge and Slough Landscape -- Morgan Maglio, Laurel Larsen, Gregory Nee and Judson Harvey; U.S. Geological Survey, National Research Program, Reston, VA USA |
| Session #41: Mercury Fate, Transport & Bioaccumulation in Wetlands (Part 1 of 3)  
[Bonaire 1 & 2] | Moderator: Christopher Knightes, USEPA, Athens, FL, USA  
10:30 Session Overview | 10:40 Mercury Bioaccumulation in Pythons from the Florida Everglades  
Tuesday, June 5, 2012 | 10:30am – 12:00pm

**Session #45: Success Strategies for Graduate School and Beyond**
[Curacao 1 & 2]
Moderator: Lisa Chambers, University of Florida, Gainesville, FL, USA
10:30 Session Overview
10:40 The Importance of Mentoring for Student Success in the Sciences -- Julia A. Cherry, University of Alabama, Tuscaloosa, AL, USA
11:00 Taking Your Science to the General Public: The Extension Model -- Mark W. Clark, University of Florida, Gainesville, FL, USA
11:20-12 Noon Discussion Panel: Taking the Next Step: Tips for Navigating the Post-Graduate Job Market
Participants: Camille Stagg (USGS), Ariana Sutton-Grier (NOAA), Lisa Chambers (University of Florida), Jason Keller (Chapman University), Kim de Mutsert (George Mason University)

**Session #46: Impact of Peatland Fires on Ecosystem Function and Feedbacks to Climate: A Global Perspective (Part 2 of 2)**
[Curacao 3 & 4]
Moderators: Brian Benscoter, Florida Atlantic University, Davie, FL, USA, and Merritt Turetsky, University of Guelph, Guelph, ON, Canada
10:30 Session Overview
10:40 Scale-Dependent Microclimate Effects of Wetland Wildfire -- Adam C. Watts, Leda N. Kobziar, and Timothy A. Martin; University of Florida, Gainesville, FL, USA
11:00 Peat Bog Wildfire Smoke Exposure in Rural North Carolina Is Associated with Cardio-Pulmonary Emergency Department Visits -- Robert B. Devlin¹, Ana G. Rappold², Susan L. Stone³, Wayne E. Cascio³, Lucas M. Neas⁴, Vasu J. Kilaru⁵, Martha Sue Carraway⁵, James J. Szykman⁵, Amy Ising⁶, William E. Cleve⁶, John T. Meredith⁶, Heather Vaughan-Batten⁷ and Lana Deyneka⁷; ¹Environmental Public Health Division, National Health and Environmental Effects Research Laboratory, US EPA, Research Triangle Park, NC, USA, ²National Exposure Research Laboratory, US EPA, Research Triangle Park, NC, USA, ³Environmental Sciences Division, National Exposure Research Laboratory, US EPA, Hampton, VA, USA, ⁴Department of Emergency Medicine, School of Medicine, University of North Carolina at Chapel Hill, NC, USA, ⁵Pitt County Memorial Hospital, Greenville, NC, USA, ⁶Brody School of Medicine at East Carolina University, Department of Cardiovascular Sciences and the East Carolina Heart Institute, Greenville, NC, USA, ⁷NC Division of Public Health, NC Division of Health and Human Services, NC, USA
11:20 Tropical Peatlands of Southeast Asia: Functions, Threats, and the Role of Fire in Climate Change Mitigation -- Matthew Warren¹ and J. Boone Kauffman²; ¹USDA Forest Service, Northern Research Station, Durham, NH, USA, ²Oregon State University, Dept. of Fisheries and Wildlife, Corvallis, OR, USA
11:40 Panel Discussion & Synthesis

**Session #47: Wetland Management [Curacao 5 & 6]**
Moderator: Bob Ford, US Fish and Wildlife Service, Atlanta, GA, USA
10:30 Session Overview
11:00 Defining Wetland Health: A foundation for Conservation Planning -- Erica J. B. Gaddis, J. Hope Hornbeck, Brian T. Nicholson and B. Eric McCulley; SWCA Environmental Consultants, Salt Lake City, UT, USA
11:20 Building up Resilience for Climate Change in a Coastal Community of Tamil Nadu, India -- Guilherme M. O. Abuchahla¹, Wilhelm Windhorst¹ and Yara Schaefner-Novelli²; ¹PROCAM, University of São Paulo, São Paulo, Brazil, ²Ecology Centre, Christian-Albrechts-Universität zu Kiel, Kiel, Germany, ³Oceanographic Institute, University of São Paulo, São Paulo, Brazil
11:40 Local Institutional Arrangements for Wetland Management in Ethiopia and Malawi - Alan B Dixon, University of Worcester, United Kingdom

**Session #48: Wetlands: Extension/Outreach [Curacao 7 & 8]**
Moderator: M L Robinson, University of Nevada, Las Vegas, NV, USA
10:30 Session Overview
10:40 Modernizing U.S. National Standards for the Classification and Mapping of Wetlands – Jane Awi¹, Bill O. Wilen², Lawrence R. Handley³ and John M. Galbraith⁴; ¹Conservation Management Institute (CMI) and Association of State Wetland Managers (ASWM), Knoxville, TN, USA, ²U.S. Fish and Wildlife Service, National Wetlands Inventory, Arlington, VA, USA, ³U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA, ⁴Virginia Tech, Blacksburg, VA, USA
11:00 URBAN, a Citizen-Science Program Based in Hamilton, Ontario -- Patricia Chow-Fraser, Lyndsay Cartwright and Maja Cvetkovic; McMaster University, Hamilton, Ontario, Canada
11:20 Schoolyard Wetlands: Creating Aquatic Spaces for Learning – Charles Andrew Cole; Penn State University, University Park, PA, USA
11:40 Wetlands Inventory and Monitoring Using Citizen Scientists through Crowd Sourcing -- Lawrence R. Handley¹ and Catherine M. Lockwood²; ¹U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA, ²CNL World, Chadron, NE, USA

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¹USDA Forest Service, Northern Research Station, Durham, NH, USA
²US Fish and Wildlife Service, Atlanta, GA, USA
³U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA
⁴Virginia Tech, Blacksburg, VA, USA
⁵Conservation Management Institute (CMI) and Association of State Wetland Managers (ASWM), Knoxville, TN, USA
⁶U.S. Fish and Wildlife Service, National Wetlands Inventory, Arlington, VA, USA
⁷U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA
⁸Virginia Tech, Blacksburg, VA, USA
| Session #49: Tradeoffs in Wetland Ecosystem Services in Working Landscapes - Conceptual Frameworks (Part 1 of 2) | 49
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**Session Overview**
1:30 Session Overview
1:40 Trade-offs in Wetland Ecosystem Services: Identification, Spatial Scale, and Management Implications -- Elizabeth Boughton and Hilary Swain; MacArthur Agroecology Research Center, Lake Placid, FL, USA, and Archbold Biological Station, Venus, FL, USA

| Session #50: Ecosystem Models & Adaptive Management (Part 1 of 2) | 50
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**Grand Sierra Ballroom C**
Moderator: Stephanie Romanach, US Geological Survey, Fort Lauderdale, FL, USA
1:30 Session Overview
1:40 Application of Adaptive Management for Wetland Restoration: An Overview of a Large-Scale Everglades Physical Model -- Fred Sklar; Scot E. Hagerthy; Susan Newman; Colin J. Saunders; Joel Trexler; Laurel Larson; Jud Harvey; Vic Engel; David Ho; Katie Skala; Sue Wilcox; and Barry Rosen; South Florida Water Management District, West Palm Beach, FL, USA, U.S. Environmental Protection Agency, Arlington, VA, USA, Florida International University, Miami, FL, USA, U.S. Geological Survey, Reston, VA, USA, Everglades National Park, Homestead, FL, USA, University of Hawaii, Hilo, Hi, USA, US Army Corps of Engineers, Jacksonville, FL, USA

| Session #51: Graduate Student Research on Wetland Complexity in the Florida Coastal Everglades (Part 1 of 2) | 51
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**Antigua 1 & 2**
Moderator: Rebecca Garoville, Florida International University, Miami, FL, USA
1:30 Session Overview
1:40 Resource Partitioning Among Three Mesocosm consumers at a Marsh Mangrove Ecotone: A Response to a Seasonal Resource Pulse Subsidy -- Ross Boucek and J. Rehage; Department of Environmental Studies, Florida International University, Miami, FL, USA
2:00 Detecting Long-term Community Shifts in Response to Sea Level Rise and Everglades’ Restoration -- Kristie S. Wendelberger; Jimi Sadle; Sonali Saha and Jennifer H. Richards; Florida International University, Miami, FL, USA, Everglades National Park, Homestead, FL, USA, The Institute for Regional Conservation, Miami, FL, USA
2:20 Effect of Hydrologic Conditions and Sediment Transport on Wetland Patterns -- Mehrnoosh Mahmodi; Fernando Miralles-Wilhelm and Reinaldo Garcia; Department of Earth and Environment, Florida International University, Miami, FL, USA, SouthEast Environmental Research Center, Florida International University, Miami, FL, USA, Department of Civil and Environmental Engineering, Florida International University, Miami, FL, USA
2:40 Seasonal Water Chemistry and Spectral Reflectance in Coastal Mangroves -- David Lagomasino; Rene M. Price; Petya K. Campbell and Dean Whitman; Florida International University, Department of Earth and Environment, Miami, FL, USA, Florida International University, Southeast Environmental Research Center, Miami, FL, USA, NASA, Goddard Space Flight Center, Biospheric Sciences Branch, Greenbelt, MD, USA

| Session #52: Colonization of Wetland Habitats: Succession in Restored Habitats (Part 1 of 2) | 52
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**Antigua 3 & 4**
Moderator: Dennis Whigham, Smithsonian Institution, Edgewater, MD, USA
1:30 Session Overview
1:40 Dispersal Potential of a Tidal River: Colonization of a Created Tidal Freshwater Marsh on the Delaware River, USA -- Mary Alesio Leck, Rider University, Lawrenceville, NJ, USA
2:00 Vegetation Patterns in Prior Converted, Restored, and Reference Wetlands in the U.S. Mid-Atlantic Coastal Plain -- Metthea M. Yepsen; Andrew H. Baldwin; Eliza McFarland; Marina LaForgia and Dennis F. Whigham; University of Maryland, College Park, MD, USA, Smithsonian Environmental Research Center, Edgewater, MD, USA
2:20 Reproduction, Dispersal, Emergence, and Establishment of Phragmites australis in Disturbances in Chesapeake Bay Tidal Wetlands -- K.M. Ketttenring; E.L.G. Hazelton; S.K. Gallagher; H.M. Baron; M.K. McCormick; D.F. Whigham; Utah State University, Logan, UT, USA, University of Wisconsin and Wisconsin Department of Natural Resources, Madison, WI, USA, Oregon State University, Corvallis, OR, USA, Smithsonian Environmental Research Center, Edgewater, MD, USA, Case Western Reserve University, Cleveland, OH, USA
2:40 Barriers to Colonization in Restored Sedge-Dominated Wetlands -- Susan Galatowitsch, University of Minnesota, Saint Paul, MN, USA

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*June 3-8, 2012 | Orlando, Florida, USA*
Tuesday, June 5, 2012 | 1:30pm – 3:00pm

**Session #53: Mercury Fate, Transport & Bioaccumulation in Wetlands (Part 2 of 3)**

[Bonaire & 2]

**Moderator:** Paul Bradley, U.S. Geological Survey, Columbia, SC, USA

1:30  **Session Overview**

1:40  **Modeling Mercury Exposure at Different Scales in the McTier Creek Watershed and Edisto River Basin, SC. USA – C. D. Knights1, 2, H.E. Golden2, P.M. Bradley3, G. Davis1, C.A. Journey1, P.A. Conrads3 and M.E. Brigham1**


1:40  **Mercury Dynamics in a Coastal Plain Watershed: A Multiple Model Approach – Heather E. Golden1, Christopher D. Knights2, Paul A Conrads3, Gary M. Davis1, Toby D. Feaster4, Celeste A Journey5, Stephen T. Benedict6, Mark E. Brigham7 and Paul M. Bradley8**


2:00  **Evaluation of Mercury Loads from Climate Change Projections for McTier Creek, South Carolina – Paul A. Conrads1, Paul M. Bradley2, Stephen T. Benedict3 and Toby D. Feaster4**


2:20  **Microbial Community Changes During Residence of Treated Wastewater in a Constructed Wetland – B.T.M. Mulling5, A.M. Soeter6, H.G. van der Geest7 and W. Admiraal8**

2:20  **Department of Aquatic Ecology and Ecotoxicology, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, the Netherlands**

2:40  **Microbial Degradation of Pesticides in Wetlands: Effects of Season Bound Changes – Pieter Vandermeeren5, François Moesen6, Jan Diels and Dirk Springael7**

2:40  **Division Soil and Water Management, Katholieke Universiteit Leuven, Belgium**

2:40  **Session #54: Linkages - Microbial Communities and Biogeochemistry (Part 1 of 2)**

[Bonaire 3 & 4]

**Moderator:** Paul Bodeliers, Netherlands Institute of Ecology (NIOO-KNAW), Wageningen, Netherlands

1:30  **Session Overview**

1:40  **Nitrogen Cycling in Headwater Wetlands across Condition Gradients in Pennsylvania and Ohio – Jessica B. Moon1, Denice H. Wardrop2, M. Siobhan Fennessey3, Hannah M. Ingram4 and Nicole Kirchner5**

1:40  **Penn State University, University Park, PA, USA, 1Koen College, Gambier, OH, USA**

2:00  **The Effect of Hydrology on the Distribution of Ammonia-Oxidizing Betaproteobacteria in Impounded Black Mangroves (Avicennia Germinans) – Hendrikus J. Laanbroek1,2,3, Rosalinde M. Keijzer4, Jos T.A Verhoefven5,6 and Dennis F. Whigham7**

2:00  **1Department of Microbial Ecology, Netherlands Institute of Ecology (NIOO-KNAW), Wageningen, the Netherlands, 2Institute of Environmental Biology, Utrecht University, Utrecht, the Netherlands, 3Smithsonian Environmental Research Station, Edgewater, MD, USA**

2:20  **Microbial Community Changes During Residence of Treated Wastewater in a Constructed Wetland – B.T.M. Mulling5, A.M. Soeter6, H.G. van der Geest7 and W. Admiraal8**

2:20  **Department of Aquatic Ecology and Ecotoxicology, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, the Netherlands**

2:40  **Microbial Degradation of Pesticides in Wetlands: Effects of Season Bound Changes – Pieter Vandermeeren5, François Moesen6, Jan Diels and Dirk Springael7**

2:40  **Division Soil and Water Management, Katholieke Universiteit Leuven, Belgium**

2:40  **Session #55: The Ecology of Livelihoods in Papyrus Wetlands: Ecosystem Functions, Services and Livelihoods (Part 2 of 3)**

[Bonaire 5 & 6]

**Moderator:** J.B. Okeyo-Owour, Vired International, Kisumu, Kenya

1:30  **Session Overview**

1:40  **Impact of Climate Variability on the Hydrology of the Sudd Wetland: Signals Derived From Long-term (1910 to 2010) Water Balance Computations – Yasir Mohamed1,2,3,4**

1:40  **Hydraulic Research Station, Ministry of Irrigation and Water Resources, Wad Medani, Sudan, 1UNESCO-IHE Institute for Water Education, Department of Management and Institutions, Delft, The Netherlands, 2Delft University of Technology, Department of Water Resources, Delft, The Netherlands**

2:00  **Controls of Denitrification in Papyrus Wetlands of the Nyando and Mara Rivers, East Africa – Gretchen M. Gettel1, Kuenzang Tshering2,3 and Hawa Nakitende1,2,3**

2:00  **1UNESCO-IHE Institute of Water Education, Delft, The Netherlands, 2Royal University of Bhutan, Thimphu, Bhutan, 3National Water and Sewerage Corporation, Kampala, Uganda**

2:20  **The Effects of Wastewater Discharge, Agriculture and Papyrus Harvesting on the Nutrient Regulation Function of Namatala Wetland, Uganda – Susan Namalwa1, Anne A. van Dam1, Ajie Guru2, Rose C. Kaggwa3 and Andrew Sekayizzi4**

2:20  **1National Water and Sewerage Corporation, Kampala, Uganda, 2UNESCO-IHE Institute for Water Education, Delft, The Netherlands**

2:40  **Institutions and Governance: Commercialization of Wetland Resources and its Effect on Traditional Institutions in the Nyando Papyrus Wetlands, Kenya – Serena Nasongo1,5, Fred Zaal1,5, Ton Dietz2 and J.B. Okeyo-Owour1,5**

2:40  **1University of Amsterdam, The Netherlands, 2Royal Tropical Institute, Amsterdam, The Netherlands, 3African Studies Centre, Leiden, The Netherlands, 4School of Environmental Sciences, Moi University, Eldoret, Kenya, 5VIRED International, Kisumu, Kenya**


2:40  **The Open University, Milton Keynes, UK**

1:40  **Quantifying the Effects of Salinity and Water Level on Greenhouse Gas Emissions Using Two Different Approaches: Laboratory Incubations Versus in Situ Measurements – John M. Marton1, Ken W. Krauss2, Ellen R. Herbert3, and Christopher B. Craft4**

1:40  **1Indiana University, Bloomington, IN, 2U.S. Geological Survey, Lafayette, LA, USA**

2:00  **Quantifying Soil Greenhouse Gas Fluxes in Relation To Inundation, Salt-Water Intrusion and Microbial Respiration in Tidal Wetlands – Justin Meschter and Nathaniel Weston, Villanova University, Villanova, PA, USA**


2:20  **1USGS, Woods Hole, MA, USA, 2University of Rhode Island, Kingston, RI, USA, 3The Ecosystems Center, Woods Hole, MA, USA, 4Waquoit Bay National Estuarine Research Reserve, Falmouth, MA, USA**


2:40  **The Open University, Milton Keynes, UK**
### Tuesday, June 5, 2012 | 1:30pm – 3:00pm

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| **Session #57: Symposium on Wetland Delineation and Regionalization (Part 1 of 2)**  
Moderator: Jacob Berkowitz, US Army Corps of Engineers, Vicksburg, MS, USA  
1:30  | **Session #58: Fire: Shaping Wetlands from Nutrients to Wildlife (Part 1 of 4)**  
[Curacao 3 & 4]  
Moderator: Adam Watts, University of Florida, Gainesville, FL, USA  
1:30  | **Session #59: Mapping and Monitoring Large Wetland Systems and Biophysical Properties with Earth Observation Satellite Imagery (Part 1 of 2)**  
[Curacao 5 & 6]  
Moderators: Maycira Costa, University of Victoria, Victoria, Canada, and Thiago Sanna Freire Silva, National Institute for Space Research, São José dos Campos, Brazil  
1:30  | **Session #60: The Unique and Complex Relationships between Natural Wetland and Upland Habitats and Phosphate Mining (Part 1 of 2)**  
[Curacao 7 & 8]  
Moderator: Kym Rouse Campbell, ENVIRON International Corp., Tampa, FL, USA  
1:30  |
| **1:40 Regionalizing the Corps of Engineers Wetland Delineation Manual - The Role of the National Technical Committee for Wetland Vegetation -- Paul Minkin and Jacob F. Berkowitz**  
1:40  | **1:40 The Impact of Fire on Soil and Plant Nutrient Levels in Calcareaous Subtropical Wetlands -- Patrick W. Inglett, Benjamin A. Hogue, Cassandra A. Medvedeff, Liao Xiaolin and Todd Osborne; University of Florida, Gainesville, FL, USA**  
2:00  | **1:40 Mapping Floodplain Dynamics of the Amazon River Basin Using the Space-borne ALOS PALSAR Synthetic Aperture Radar -- Bruce Chapman, Laura Hess, Bruce Forsberg and Kyle McDonald; Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA,  
University of California, Santa Barbara, California, USA,  
Instituto Nacional de Pesquisas da Amazonia, Manaus, Brazil,  
The City College of New York, City University of New York, New York, New York, USA**  
2:00  | **1:40 Hydrology of Clay Settling Areas and Surrounding Landscapes in the Phosphate Mining District, Peninsular Florida -- Mark Rains,  
Kathryn Murphy, Michael Kittridge, Mark Stewart, Ken Trout and Mark Ross; University of South Florida, Tampa, FL, USA**  
2:00  |
| 2:20 **Developing a National Standard for Challenges to the National Wetland Plant List -- J.J. Gilrich and R.W. Lichvar; U.S. Army Corps of Engineers, Hanover, NH, USA**  
2:20  | 2:20 **Fire Effects on Nitrogen Cycle in Calcareaous Wetlands of Florida Everglades -- Liao Xiaolin, Patrick W. Inglett, Benjamin Hogue, Cassandra Medvedeff, Kanika Sharma Inglett; Soil and Water Science Department, University of Florida, Gainesville, FL, USA**  
2:40  | **2:20 Monitoring Spartina Marshes in the Argentine Coast: Integrating Biophysical Parameters, Hyperspectral Field Data and Satellite Observations - Gabriela González-Trilla, Patricia Kandus and Jorge Marcovecchio; Universidad Nacional de San Martín (UNSAM), Argentina,  
Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina,  
Instituto Argentino de Oceanografía (IADO), Argentina**  
2:20  | **2:20 Potential Benefits of Incorporating Biochar, a Soil Amendment, into Wetland Reclamation -- Tyler Nicoll, Ground Level, Inc. Bartow, FL, USA**  
2:40  |
| **2:40 Wetland Characteristics of Glacially Derived Boulder Fields in the Northeastern United States -- Lindsey E. Dixon, Robert W. Lichvar, Katherine Curtis and Jennifer Gilrich; U.S. Army Corps of Engineers Cold Regions and Research Engineering Laboratory, Hanover, NH, USA**  
2:40  | **2:40 Response of Microbial Activity, Respiration and Methanogenesis to Fire Residues (Ash and Char) in Two Contrasting Subtropical Wetland Soils – C.A. Medvedeff, B.A. Hogue, K.S. Inglett and P.W. Inglett; Soil and Water Science Department, University of Florida, Gainesville, FL, USA**  
2:40  | **2:40 Land Cover Classification and Seasonal Inundation of the Pantanal of South America Using Multi-SAR Imagery and an Object Based Image Analysis Approach -- Teresa Evans and Maycira Costa; University of Victoria, Victoria BC, Canada**  
2:40  | **2:40 Discussion**  
2:40  |
Tuesday, June 5, 2012 | 3:30pm – 5:00pm

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<td>Session #61: Tradeoffs in Wetland Ecosystem Services in Working Landscapes - Biodiversity and Hydrologic Services (Part 2 of 2)</td>
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<td>[Grand Sierra Ballroom B]</td>
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<td>Moderator: Elizabeth Boughton, MacArthur Agro-ecology Research Center, Lake Placid, FL, USA</td>
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<td>3:30 Session Overview</td>
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<td>3:40 Effects of Raised Water Levels on Wet Grassland Plant Communities in Southern England -- Chris B. Joyce1, 2 and Sarah E. Toogood3, 1School of Environment and Technology, University of Brighton, UK, 2Halcrow Group Ltd., Worcester, UK</td>
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<td>4:00 The Effects of Cattle Grazing on Breeding Waterfowl in Intermontain Depressional Wetlands -- Lauchlan H Fraser1, Bruce Harrison2, 3, W. Marc Jones4, 3, 4Huntley, WA, USA, 5Denise Clark1 and Brian A. Heise3, 1Thompson Rivers University, Kamloops, BC, Canada, 2Ducks Unlimited Canada, Kamloops, BC, Canada, 3University of British Columbia Okanagan, Kelowna, BC, Canada</td>
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<td>4:20 Assessing Tradeoffs Among Wetland Ecosystem Services in a Payment-for-Ecosystem-Services Program on Florida Ranchlands -- Patrick J. Bohlen1, 2, 3Elizabeth Boughton, 4John E. Fauth1, 5David Jenkins1, 5Pedro Quintana-Ascencio1, 2, Sanjay Shukla1, 2, and Hilary Swain1, 4University of Central Florida, Orlando, FL, USA, 2MacArthur Agro-ecology Research Center, Lake Placid, FL, USA, 3University of Florida, Southwest Florida Research and Education Center, Immokalee, FL, USA, 4Archbold Biological Station, Lake Placid, FL, USA</td>
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<td>4:40 Hydroecologic Modeling and Decision Support System for Evaluating Environmental Services from Ranchlands in the Northern Everglades -- Sanjay Shukla1, Gregory A. Kiker2, Elizabeth Boughton2, 3, 4John E. Fauth5, 4David Jenkins1, 5Pedro Quintana-Ascencio1 and Hilary Swain1, 4, 5Agricultural and Biological Engineering Department, University of Florida, Immokalee and Gainesville, FL, USA, 4MacArthur Agro-ecology Research Center, Lake Placid, FL, USA, 5University of Central Florida, Orlando, FL, USA, 4Archbold Biological Station, Lake Placid, FL, USA</td>
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<td>4:20 Modeling Coastal Vegetation Community Succession using the Everglades Landscape Vegetation Succession Model - Leonard Pearstine1, 2, 3, 4Steve Friedman1, 2, 3, 4Stephanie Romaiñach5, 2, 3, 4Tom Doyle5, 2, 3, 4Jimi Sadie5, 2, 3, 4Sonali Saha5, 2, 3, 4Tom Smith1, 2, 3, 4Don DeAngelis1, 2, 3, 4Michael Turtora1, 2, 3, 4, 5Leon Stenberg1, 2, 3, 4Kristie Wendelberger2, 3, 4, 5Ronnie Best2, 3, 4, 5Eric Swain1, 2, 3, 4, 5, 6Everglades National Park; National Park Service, Homestead, FL, USA, 4Southeast Ecological Science Center; U.S. Geological Survey, Gainesville, FL USA, 5National Wetlands Research Center, U.S. Geological Survey, Lafayette, LA USA, 6Greater Everglades Priority Ecosystems Science; U.S. Geological Survey, Davie, FL USA, 7Florida Integrated Science Center; U.S. Geological Survey, Ft Lauderdale, FL USA, 8The Institute for Regional Conservation, Miami, FL USA, 9Department of Biology; University of Miami, Miami, FL USA, 10Southeast Environmental Research Center; Florida International University, Miami, FL USA</td>
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<td>4:40 Hypothesis Testing of Everglades Marsh Community Interactions Using Structural Equation Modeling -- Allison C. Shideler, Joel C. Trexler and Evelyn E. Gaiser, Florida International University, Miami, FL USA</td>
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<td>Session #62: Ecosystem Models &amp; Adaptive Management (Part 2 of 2)</td>
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<td>Moderator: Carol Mitchell, Everglades and Dry Tortugas National Park, Homestead, FL, USA</td>
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<td>3:30 Session Overview</td>
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<td>3:40 Connectivity of Wetlands to Downstream Waters: Conceptual Framework and Review -- Scott G. Leibowitz1, 2, 3, 4Laurie C. Alexander5, 2, 3, 4Bradley Autrey6, 2, 3, 4Julie DeMeester7, 2, 3, 4Charles R. Lane1, 2, 3, 4Stephen D. LeDuc8, 9, and Elizabeth K. Ridley2, 3, 4, 5U.S. Geological Survey, NHEERL, Corvallis, OR, USA, 2U.S. EPA, NCEA, Washington, DC, USA, 3U.S. EPA, NERL, Cincinnati, OH, USA, 4AAAS Fellow, U.S. EPA, NCEA, Washington, DC USA</td>
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<td>4:00 Visualizing Upper Trophic and Ecosystem Modeling Outputs with EVERVIEW to Inform the Decision Process in Coastal Louisiana -- Craig Conzelmann1, 2, 3, 4Carol Parsons Richards2, 3, 4Kevin Suir1, 2, 3, 4Sumanith Chimmula1 and Mark McKevey1, 2, 3, 4U.S. Geological Survey, Lafayette, LA USA, 2, 3Louisiana Office Coastal Protection and Restoration, Baton Rouge, LA USA, 3River Services Rivers, LLC, Colorado Springs, CO USA, 4University of Louisiana, Lafayette LA USA</td>
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<td>4:20 Biogeochemical Effects of Saltwater Intrusion and Increased Inundation on Everglades Peat Soil -- Lisa G. Chambers1, 2, 3, 4Stephen E. Davis1, 2, 3, 4Tiffany Troxler1, 2, 3, 4 -- CSX Transportation, Inc., Five Rivers Services, LLC, Pine Key, FL USA, 2Everglades Foundation, Palmetto Bay, FL USA, 3Southeast Environmental Research Center, Miami, FL USA</td>
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<td>4:40 Panel Discussion: Evelyn Gaiser</td>
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<td>Session #63: Graduate Student Research on Wetland Complexity in the Florida Coastal Everglades (Part 2 of 2)</td>
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<td>[Antigua 1 &amp; 2]</td>
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<td>Moderator: Kristie Wendelberger, Florida International University, Miami, FL USA</td>
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<td>3:30 Session Overview</td>
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<td>3:40 Encountering Culture in Restoration: Understanding Cultural Tensions in the Florida Everglades and Beyond -- Rebecca I. Garvallov1, 2, 3, 4Laura A. Ogden1, 2, 3, 4, 5PhD Candidate in Anthropology, Florida International University, Miami, FL USA, 2Associate Professor, Florida International University, Miami, FL USA</td>
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<td>4:00 Seasonality and Disturbance Events in the Carbon Isotope Record of Pinus elliottii Tree Rings from Big Pine Key, Florida -- Carrie E. Rebenack1, 2, 3, 4, 5William T. Anderson1 and Paolo Cherubini5, 2Florida International University, Southeast Environmental Research Center, Miami, FL USA, 1WSL, Birmensdorf, Switzerland</td>
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<td>4:20 Biogeochemical Effects of Saltwater Intrusion and Increased Inundation on Everglades Peat Soil -- Lisa G. Chambers1, 2, 3, 4Stephen E. Davis1, 2, 3, 4Tiffany Troxler1, 2, 3, 4 -- CSX Transportation, Inc., Five Rivers Services, LLC, Pine Key, FL USA, 2Everglades Foundation, Palmetto Bay, FL USA, 3Southeast Environmental Research Center, Miami, FL USA</td>
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<td>Session #64: Colonization of Wetland Habitat: Plant Dispersal and Establishment (Part 2 of 2) [Antigua 3 &amp; 4]</td>
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<td>Moderator: Jos Verhoeven, Utrecht University, Utrecht, Netherlands</td>
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<td>3:30 Session Overview</td>
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<td>3:40 Urban Wetlands: Propagule Banks in Aquatic Wetland Ecosystems: Disturbances as a Key Process -- Gudrun BORNETTE1, 2, 3, 4, 5Wei Li2, 3, 4 and Florent ARTHAUD5, 1Université de Lyon, Ecologie des hydrosystèmes naturels et Anthropisés, Université Lyon, France, 2Laboratory of Aquatic Plant Biology; Wuhan Botanical Garden, The Chinese Academy of Sciences, Wuhan; Hubei; P. R. China</td>
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<td>4:00 The Dynamics of Species-Rich Meadows on UK Floodplains -- D.J. Gowing, Open University, Milton Keynes, U.K</td>
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<td>4:20 Colonization and Succession in Restored Wet Grasslands: Lessons From Long-Term Experiments -- Norbert Hözel1, University of Münster, Germany</td>
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<td>4:40 Saltmarsh Ecosystem Restoration on Intertidal/Submerged Cap in an Urban System -- Joseph Shisler1, Matthew Adkins2, 3, Jeff Becker4 and Tim Iannuzzi5, 1ARCADIS, Cranbury, NJ, USA, 2CSX Transportation, Inc.</td>
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<td>[Bonaire 1 &amp; 2]</td>
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<td>[Bonaire 5 &amp; 6]</td>
<td>[Bonaire 7 &amp; 8]</td>
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<td>Moderator: Paul Bradley, U.S. Geological Survey, Columbia, SC, USA</td>
<td>Moderator: Christopher Craft, Indiana University, Bloomington, IN, USA</td>
<td>Moderator: Fred Zaal, KIT, Amsterdam, Netherland</td>
<td>Moderator: Scott Neubauer, University of South Carolina, Georgetown, SC, USA</td>
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<td>3:30 Session Overview</td>
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| Session #69: Symposium on Wetland Delineation and Regionalization (Part 2 of 2) [Curacao 1 & 2]  
Moderator: Jacob Berkowitz, US Army Corps of Engineers, Vicksburg, MS, USA  
3:30  Session Overview  
4:00  Multi-Scale Monitoring of Potential Groundwater Withdrawal Impacts Using Delineation Methodology; Lower Platte River, Nebraska (Part 1 of 2) -- Justin E. Bailey¹, Michael C. Gilbert², Sarah J. Soard¹ and Kevin P. Tobin¹; Burns & McDonnell Engineering Company, Inc., Kansas City, Missouri, USA, ¹United States Army Corps of Engineers, Omaha, Nebraska, USA, ²Metropolitan Utilities District, Omaha, Nebraska, USA  
4:20  Use of the Prevalence Index to Determine Plant Community Trends Related to Groundwater Withdrawal, Lower Platte River, Nebraska (Part 2 of 2) -- Sarah J. Soard¹, Michael C. Gilbert², Justin E. Bailey¹ and Kevin P. Tobin¹; Burns & McDonnell Engineering Company, Inc., Kansas City, Missouri, USA, ¹United States Army Corps of Engineers, Omaha, Nebraska, USA, ²Metropolitan Utilities District, Omaha, Nebraska, USA  
4:40  Panel Discussion | Session #70: Fire: Shaping Wetlands from Nutrients to Wildlife (Part 2 of 4) [Curacao 3 & 4]  
Moderator: Cassandra Medvedeff, University of Florida, Gainesville, USA  
3:30  Session Overview  
3:40  Smoldering Cypress Swamp Soils: Moisture Effects and Implications for Forest Structure -- Leda N. Kobziar¹, Adam C. Watts², Todd Z. Osborne¹ and James R. Snyder²; University of Florida, Gainesville, FL, USA, ¹U.S. Geological Survey, Ochopee, FL, USA  
4:00  Mass Mortality of Hardwood Shrubs after a Single Fire in Seasonally Flooded Prairie -- James R. Snyder² and William T. Hilton²; ¹U.S. Geological Survey, Ochopee, FL, USA, ²Jacobs Technology, Ochopee, FL, USA  
4:40  Effects of Fire on River Cane (Aurundinaria gigantea) in a Bottomland Hardwood Forest Four Years After Burning -- Paul R. Gagnon and Heather A. Passmore; ¹Murray State University, Murray, KY, USA  
4:40  Panel Discussion | Session #71: Mapping and Monitoring Large Wetland Systems and Biophysical Properties with Earth Observation Satellite Imagery (Part 2 of 2) [Curacao 5 & 6]  
Moderators: Maycira Costa, University of Victoria, Victoria, Canada and Lisa-Marie Rebelo, International Water Management Institute, Addis Ababa, Ethiopia  
3:30  Session Overview  
3:40  Use of ALOS PALSAR for Regional Mapping and Monitoring of Mangroves -- Richard M. Lucas, Institute of Geography and Earth Sciences, Aberystwyth, Ceredigion, Wales, UK  
4:00  Multi-temporal Mapping of the Largest Continuous Amazonian Mangrove Belt Using Object-based Classification of Multisensor Images -- Wilson da Rocha Nascimento Junior¹, Pedro Walfir M. Souza-Filho², Christophe Proisy³ and Richard M. Lucas³; ¹Laboratoire de Géographie et Environnements Terrestres (LGET), Université de La Rochelle, France, ²Institute of Geography and Earth Sciences, Aberystwyth, Ceredigion, Wales, UK  
4:40  Demonstration of an Ecosystem Services Valuation Methodology for Reclaimed Phosphate Mined Lands -- Kym Rouse Campbell¹ and Joseph Nicolette¹; ¹ENVIRO International Corporation, Tampa, FL, USA, ²ENVIRO International Corporation, Atlanta, GA, USA  
4:40  Discussion |  

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**Tuesday, June 5, 2012 | 3:30pm – 5:00pm**
### Session #73: Wetlands Governance and Legal Framework (40)

**Moderators:** Stanley Lipahdzi, Water Research Commission, George, South Africa and Harrison Pienaar, CSIR, Pretoria, South Africa

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<tr>
<td>10:40</td>
<td>Lessons Learned from the Australian Wetlands Alliance</td>
<td>Grand Sierra Ballroom C</td>
<td>John White (Australia), Scott E. Hagerthy (Australia), Mark I. Cook (USA)</td>
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<td>11:00</td>
<td>County-based Governance of Participatory Restoration and Survey for Wetlands in Taiwan</td>
<td>Grand Sierra Ballroom C</td>
<td>Chia-Hong Hong, Terence Lee, Wei-Ta Fang (Taiwan)</td>
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<td>11:20</td>
<td>Equitable Water Rights: A Holistic Perspective on Socio-cultural Restoration to Sustain Biodiversity, Ecosystem Functions and Social Justice in the Tigris Euphrates Watershed</td>
<td>Grand Sierra Ballroom C</td>
<td>Michelle Stevens (Iowa)</td>
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<td>11:40</td>
<td>Moving Beyond Legal Compliance to Self Control: Change Oriented Learning for Wetland Sustainability Practices</td>
<td>Grand Sierra Ballroom C</td>
<td>David Lindley (Iowa)</td>
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### Session #74: Everglades Nutrients and Water Quality (40)

**Moderator:** John White, Louisiana State University, Baton Rouge, LA, USA

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<td>10:40</td>
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<td>10:40</td>
<td>Restoring Ecosystem Function in the P-Enriched Everglades: Creating an Alternate Regime</td>
<td>Grand Sierra Ballroom C</td>
<td>Susan Newman (USA), Scott E. Hagerthy (Australia), Mark I. Cook (USA)</td>
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<td>11:00</td>
<td>Processes and Dynamics of Ecosystem Recovery in Nutrient-Enriched Everglades after Phosphorus Load Reduction</td>
<td>Grand Sierra Ballroom C</td>
<td>Shili Miao (USA), Cassandra R. Thomas (USA), Carol F. Johnston (USA)</td>
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<td>11:20</td>
<td>Cyanobacteria Species from Florida Everglades Floc: Barry H. Rosen</td>
<td>Grand Sierra Ballroom C</td>
<td>Jaroslava Komárková (Czech Republic), Jiří Komárek (Czech Republic)</td>
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### Session #75: Habitat Management and Ecological Research in the Northern Everglades (40)

**Moderator:** Rebekah Gibble, A.R.M. Loxahatchee NWR, Boynton Beach, FL, USA

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<td>10:40</td>
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<td>10:40</td>
<td>The Integration of Science and Fire Management at the Loxahatchee National Wildlife Refuge</td>
<td>Grand Sierra Ballroom C</td>
<td>Jon Wallace (USA), Scott E. Hagerthy (USA), Mark I. Cook (USA)</td>
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<td>11:00</td>
<td>Invasive Plant Management Strategies: Integrating Science and Monitoring</td>
<td>Grand Sierra Ballroom C</td>
<td>Lisa A. Jameson, Rebekah Gibble, Christen A. Mason (USA),</td>
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<td>11:20</td>
<td>Integrating Current Research into Management Decisions at the Arthur R. Marshall Loxahatchee National Wildlife Refuge</td>
<td>Grand Sierra Ballroom C</td>
<td>A.D. Kapsch (USA), Rebekah Gibble (USA), Scott E. Hagerthy (Australia)</td>
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<td>11:40</td>
<td>Trends in Alligator Body Condition in Relation to Hydrology</td>
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<td>11:40</td>
<td>Total Phosphorus Calibration of the Simple Refuge Screening Model Version 4 Using Optimization</td>
<td>Grand Sierra Ballroom C</td>
<td>Michael G. Waldon, Chunfang Chen, Ehab A. Meselhe, A.R.M. Loxahatchee NWR, Boynton Beach, FL, USA, University of Louisiana-Lafayette, USA</td>
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<td>11:40</td>
<td>Hydrologic Connectivity of Drained Wetlands in Iowa’s Prairie Pothole Landscape</td>
<td>Grand Sierra Ballroom C</td>
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<td>Session #77: Role of Best Management Practices in Non-point Source Pollution Control and Wetland Protection [Bonaire 1 &amp; 2]</td>
<td>Moderator: Samira Daroub, University of Florida, Belle Glade, FL, USA</td>
<td>10:30</td>
<td>Session Overview 10:40 Wetlands as a Key to Water Quality Best Management Practices on Florida Ranchlands -- Patrick J. Bohlen, University of Central Florida, Orlando, FL, USA</td>
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<td>11:00</td>
<td>Improving the Effectiveness of BMPs in the Everglades Agricultural Area -- Timothy A. Lang, Samira H. Daroub, Jehangir Bhdha and Manohardeep Josan; University of Florida/IFAS, Everglades Research and Education Center, Belle Glade, FL, USA</td>
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<td>11:20</td>
<td>Selection of Soil Test Phosphorus Extractant and Index for Calcareous Soils -- Kelly T. Morgan and Kamal Mahmoud; University of Florida, Immokalee, FL, USA</td>
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<td>11:40</td>
<td>The Effect of Hydraulic Retention Time and Flow Path on Nitrate and Atrazine Attenuation in a Bioretention Swale -- Amy N. Smith1, Lenore P. Tedesco2, Pierre-André Jacinthe3, Meghna Babbar-Sebens4; 1Indiana University-Purdue University Indianapolis, Indianapolis, IN, USA, 2The Wetlands Institute, Stone Harbor, NJ, USA</td>
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| Session #78: Biogenic Gas Emissions from Peatlands: The Importance of Tropical and Sub-tropical Ecosystems (Part 1 of 3) [Bonaire 3] | Moderator: Xavier Comas, Florida Atlantic University, Davie, USA | 10:30 | Session Overview 10:40 Carbon Budget Estimation from Everglades Tree Islands: Balancing Soil Accretion and CO2 Efflux -- Leonard J. Scinto5, Robert Schroeder6,7, Alexandra Serna8,9, Eric Cline9, Thomas Dreschel1 and Fred Sklar1; 1Southeast Environmental Research Center, Florida International University, Miami, FL, USA, 2Department of Earth and the Environment, Florida International University, Miami, FL, USA, 3South Florida Water Management District, Everglades Systems Assessment Section, West Palm Beach, FL, USA |
| 11:00 | Carbon Fluxes at a Subtropical Peat Marsh in Florida -- David M. Summer1, C. Ross Hinkle2, Jiahong Li3 and Angelique Bochnak4; 1U.S. Geological Survey, Orlando, FL, USA, 2University of Central Florida, Orlando, FL, USA, 3Lirac Corporation, Lincoln, NE, USA, 4St. Johns River Water Management District, Palatka, FL, USA |
| 11:20 | Greenhouse Gas Emissions Dynamics in Response to Organic Matter Amendment in a Created Wetland in Southeastern Virginia, USA -- R. Scott Winton and Curtis J. Richardson; Duke University Wetland Center, Durham, NC, USA |
| 11:40 | Spatio-temporal Distribution of Air-water CO2 Exchange in Doñana Wetlands (Spain) -- S. Flecha1, Edward P. Morris2, Jordi Figuerola3, Eduardo Costas4, Gabriel Navarro5, Pablo Rodriguez6, and I. Emma Huertas7; 1Instituto de Ciencias Marinas de Andalucía (CSIC), Puerto Real, Cádiz, Spain, 2Estación Biológica de Doñana (CSIC), Sevilla, Spain, 3Universidad Complutense de Madrid, Madrid, Spain, 4Universidad de Murcia, Murcia, Spain |

| Session #79: Symposium on Plant Ecophysiology in Wetlands [Bonaire 5 & 6] | Moderators: Pia Parolin, University of Hamburg, Hamburg, Germany and Catia Nunes da Cunha, UFMT, Cuiaba, Brazil | 10:30 | Session Overview 10:40 Above and Below Ground Nutrient Cycling in Northern Prairie Wetlands -- Lindsey M. Meyers, Edward S. DeKeyser, Jack E. Norland and Thomas DeSutter; North Dakota State University, Fargo, ND, USA |
| 11:00 | Plant Community Composition and Biogeochemistry of Clear and Turbid Shallow Lakes -- La Toya T. Kissoon9, Donna L. Jacob1, Mark A. Hanson1, Brian R. Herwig1, Shane E. Bowe1 and Marinos L. Otte2; 1Wet Ecosystem Research Group, Department of Biological Sciences, North Dakota State University, Fargo, ND, USA, 2Minnesota DNR, Wetland Wildlife Population and Research Group, Bemidji, MN, USA, 3Red Lake DNR, Water Resources Program, Red Lake, MN, USA |
| 11:20 | Plant Species Response to the Restoration of Degraded Fens in North-West Wales -- Nina M. Menichino; Bangor University, Wales, UK |
| 11:40 | Plant Ecophysiology in Tropical Freshwater Wetlands on Three Continents -- Pia Parolin1 and Catia Nunes da Cunha2; 1University of Hamburg, Germany, 2University of Cuiaba, Brazil |

| Session #80: Self-organized Landscapes: Tree Islands (Part 1 of 3) [Bonaire 7 & 8] | Moderator: Victor Engel, Everglades National Park, Homestead, FL, USA | 10:30 | Session Overview 10:40 Tree Islands: Landforms and Underlying Biotic Feedbacks -- Paolo D’Odorico1, Vic Engel2, Joel A. Carr1 and Matthew Baddock3; 1University of Virginia, Charlottesville, VA, USA, 2Everglades National Park, Homestead, FL, USA |
| 11:00 | Transpiration as a Hydrologic Driver of Ion and Mineral Accumulation on Tree Islands -- Pamela L. Sullivan1, René M. Price1,2, Vic Engel1, Michael S. Ross3,4, 1Department of Earth and the Environment, Florida International University, Miami, FL, USA, 2Southeastern Environmental Research Center, Florida International University, Miami, FL, USA, 3National Park Service, Everglades National Park, Homestead, FL, USA, 4University of Florida, St. Johns River Water Management District, Homestead, FL, USA |
| 11:20 | Autogenous Development of Habitat Heterogeneity in the Okavango Delta, Northern Botswana -- Terence S McCarthy1 and William N Ellery1; 1University of the Witwatersrand, Johannesburg, South Africa, 2Rhodes University, Grahamstown, South Africa |
| 11:40 | Biogeography of Tropical Hardwood Forests in South Florida: Evidence for Self-organization? -- Michael S. Ross, Jay P. Sah, Pablo L. Ruiz and Adam A. Spitzig; Florida International University, Miami, FL, USA |
### Wednesday, June 6, 2012 | 10:30am – 12:00pm

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<tr>
<td>Moderator: Alice Benzecry, Fairleigh Dickinson University, Teaneck, NJ, USA and Ellen Kracauer Hartig, NYC Parks, New York, NY, USA</td>
<td>Moderator: Louise Venne, University of Florida, Gainesville, FL, USA</td>
<td>Moderator: John Jones, USGS, Reston, VA, USA</td>
<td>Moderator: Dave Tipple, USACE, Jacksonville, FL, USA</td>
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<td><strong>11:00 Measuring Marsh Surface Elevation Change: Patterns and Processes, Trends and Timing -- Denise J. Reed, University of New Orleans, New Orleans LA, USA</strong></td>
<td><strong>11:00 Fire Effects on Wading Bird Foraging Habitat and Resources -- Louise S. Venne and Peter C. Frederick, Department of Wildlife Ecology and Conservation, University of Florida, Gainesville, FL, USA</strong></td>
<td><strong>11:00 Incorporating Data from Several Remotely Sensed Platforms to Map Current and Potentially Restorable Wetlands -- Jennifer Corcoran, University of Minnesota, Saint Paul, MN, USA</strong></td>
<td><strong>11:00 Governmental Laws, Rules and Policies, Are They Keeping Up With Restoration Objectives -- Kenneth G. Ammon, WRSc (WRScompass), West Palm Beach, FL, USA</strong></td>
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<td><strong>11:40 Getting the Most from Surface Elevation Table-Marker Horizon Installations</strong> Panelists: Alice Benzecry, Leah Beckett, Donald Cahoon, Ellen Kracauer Hartig, Danielle Kreeger, James Lynch, Beth Middleton, Denise Reed, and Charles Roman</td>
<td><strong>11:40 Mapping and Assessing Tree Island Fire Damage &amp; Recovery within the Short-Hydroperiod Marl Prairie Grasslands of the Everglades -- Pablo L Ruiz, Adam A Spitzig, Jay P Sah, Michael S Ross, Southeast Environmental Research Center, Florida International University, Miami, FL, USA</strong></td>
<td><strong>11:40 LiDAR Intensity and Elevation Data to Infer Forested Wetland Extent and Function -- Megan W. Lang, Robert A. Oesterling, Greg W. McCarty and Owen T. McDonough, U.S. Department of Agriculture Forest Service, Beltsville, MD, USA</strong></td>
<td><strong>11:40 Habitat Monitoring and Assessment in Large Wetland Systems -- Craig T. Mallison and Boyd Z. Thompson, Florida Fish and Wildlife Conservation Commission, Lakeland, Florida, USA</strong></td>
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<td><strong>11:40 LiDAR Intensity and Elevation Data to Infer Forested Wetland Extent and Function -- Megan W. Lang, Robert A. Oesterling, Greg W. McCarty and Owen T. McDonough, U.S. Department of Agriculture Forest Service, Beltsville, MD, USA</strong></td>
<td><strong>11:40 Mapping and Assessing Tree Island Fire Damage &amp; Recovery within the Short-Hydroperiod Marl Prairie Grasslands of the Everglades -- Pablo L Ruiz, Adam A Spitzig, Jay P Sah, Michael S Ross, Southeast Environmental Research Center, Florida International University, Miami, FL, USA</strong></td>
<td><strong>11:40 LiDAR Intensity and Elevation Data to Infer Forested Wetland Extent and Function -- Megan W. Lang, Robert A. Oesterling, Greg W. McCarty and Owen T. McDonough, U.S. Department of Agriculture Forest Service, Beltsville, MD, USA</strong></td>
<td><strong>11:40 Habitat Monitoring and Assessment in Large Wetland Systems -- Craig T. Mallison and Boyd Z. Thompson, Florida Fish and Wildlife Conservation Commission, Lakeland, Florida, USA</strong></td>
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<td>Session #85: Governing Across Boundaries: Learning from Experience (Panel 1)</td>
<td>Session #86: The SWSPCP CODE OF ETHICS: Code Compliance as a Working Professional (Part 1 of 2)</td>
<td>Session #87: Climatic Events, Climate &amp; Sea Level Rise</td>
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<td><strong>[Grand Sierra Ballroom B]</strong></td>
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<td><strong>Moderator:</strong> Lynn Scarlet, Resources for the Future, Arlington, VA, USA</td>
<td><strong>Moderator:</strong> James Perry, VIMS/The College of William &amp; Mary, Gloucester Point, VA, USA</td>
<td><strong>Moderator:</strong> Robert Johnson, Department of the Interior, Homestead, FL, USA</td>
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<td>1:30 – 3:00 Panelists: Shannon Estenoz, Roy Stein, and John Hankinson</td>
<td>1:30 – 3:00 Session Overview</td>
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<td>This panel will examine models of shared or network governance in large-scale coastal restoration endeavors. What are the governing structures or mechanisms of crossjurisdictional, multisite coordination and management? Who participates? How are decisions made? How are actions coordinated?</td>
<td>1:50 – 2:30 Hired Gun or Objective Scientist? Ethical Dilemmas for the Professional Wetland Scientist, Consultant, and Regulator – Trainer: Royal Gardner, Stetson University College of Law, Gulfport, FL, USA</td>
<td>1:40 Effects of Raised Temperature and Northward Species Migration on Experimental Tidal Freshwater Marsh Communities from European and North American Estuaries -- Marisa Schönfeldt¹, Andrew Baldwin² and Kai Jensen³; ¹Hamburg University, Hamburg, Germany, ²University of Maryland, College Park, MD, USA</td>
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<td>2:30 – 3:00 Trainer Introduced Case Studies and Audience Interaction</td>
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<td>2:00 Extreme Climate Events and the Recurrent Sudden Dieback and Recovery of Salt Marshes in the Rapidly Subsiding Mississippi River Delta, Louisiana -- Christopher M. Swarzenski¹, Tommy Michot², Camille L. Stagg³ and Richard H. Day⁴; ¹United States Geological Survey, Baton Rouge, Louisiana, USA, ²University of Louisiana, Lafayette, USA, ³United States Geological Survey, Lafayette, Louisiana, USA</td>
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<td>2:20 Hydropatterns and Rainfall during the 2009-2010 Hydrologic Year (June to May) Provide Incite into How a Restored Everglades Might Respond to Sea Level Rise -- Jerome J. Lorenz, Peter E. Frenza and Michelle Robinson, Audubon of Florida, Tavernier, FL, USA</td>
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<td>2:40 Climate and Vegetation History of Current and Former Cape Sable Seaside Sparrow Wetland Habitat, Florida Everglades -- Christopher E. Bernhardt and Debra A. Willard, U.S. Geological Survey, Reston, VA, USA</td>
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| **Session #89: Invasive Plants-Phragmites**  
[Bonaire 1 & 2]  
Moderator: Doug Wilcox, The College at Brockport, State University of New York, Brockport, NY, USA | **Session #90: Biogenic Gas Emissions from Peatlands: The Importance of Tropical and Sub-tropical Ecosystems (Part 2 of 3)**  
[Bonaire 3 & 4]  
Moderator: Victor Engel, Everglades National Park, Homestead, FL, USA | **Session #91: Wetland Restoration**  
[Bonaire 5 & 6]  
Moderator: Susan Galatowitsch, University of Minnesota, Saint Paul, MN, USA | **Session #92: Self-organized Landscapes: Freshwater Peatlands (Part 2 of 3)**  
[Bonaire 7 & 8]  
Moderator: Mike Ross, FIU, Miami, FL, USA |
| 1:30 Session Overview | 1:30 Session Overview | 1:30 Session Overview | 1:30 Session Overview |
| 1:40 Cryptic Invasion in a Changed Climate – Ecophysiology and Gene Expression of Common Reed from the US Gulf Coast -- Franziska Eller and Hans Brix; Aarhus University, Department of Bioscience, Denmark | 1:40 Autonomous Ground Penetrating Radar (GPR) Measurements for Exploring Temporal Dynamics in Biogenic Gas Releases from Peat Soils in the Florida Everglades -- William Wright, Xavier Comas and Gerhard Heij; Florida Atlantic University, Department of Geosciences, Boca Raton, Florida, USA | 1:40 Wetland Restoration and Monitoring in the Southwest -- Ondrea Hummel; U.S. Army Corps of Engineers, Albuquerque District, Albuquerque, NM, USA | 1:40 aMazing Pattern: Self-organization in Northern Peatland Ecosystems -- Maarten B. Eppinga, Stefan C. Dekker, Hugo J. De Boer, Max Rietkerk and Martin J. Wassen; Utrecht University, Utrecht, The Netherlands |
| 2:00 Predicting Phragmites Expansion in the Laurentian Great Lakes – Martha L. Carlson Mazur, Kurt P. Kowalski, David M. Balbraith, Laura L. Bourgeau-Chavez, Liza Jenkins and Colin Brooks; U.S. Geological Survey, Ann Arbor, MI, USA, Michigan Tech Research Institute, Ann Arbor, MI, USA | 2:00 Methane Emissions through Trees in Tropical and Temperate Forested Wetlands – Sunitha R. Pangala, Vincent Gauci, Edward R.C. Hornibrook and David J. Gowing; The Open University, Milton Keynes, UK, University of Bristol, Bristol, UK | 2:00 Northern Prairie Wetland Assessment at Multiple Spatial Scales -- Suzanne Bayley, Irena Creed, Matt Wilson, Rebecca Rooney; Department of Biology, Western University, London, Canada, University of Alberta, Edmonton, Canada | 2:00 Exogenous and Endogenous Controls Impact Evolution and Resilience of Wetland Vegetation Patterns -- Yiwei Cheng, Marc Stiegitz, Greg Turk, Joshua Ross and Victor Engel; School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA, USA, School of Earth Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA, USA, School of Interactive Computing, Georgia Institute of Technology, Atlanta, GA, USA, School of Earth Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA, USA, School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA, USA, School of Earth Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA, USA |
| 2:40 Did Phragmites australis Invasion in the Great Lakes Begin in 1988 Rather than 1999? -- Douglas A. Wilcox, The College at Brockport, State University of New York, Brockport, NY, USA | 2:40 Using Hydrogeophysical Methods to Constraining Spatial and Temporal Dynamics of Biogenic Gas Distribution and Fluxes in Peat Soils of the Everglades -- Xavier Comas, William Wright and Anastasija Cabolova; Department of Geosciences, Florida Atlantic University, Boca Raton, FL, USA, Department of Physics, Florida Atlantic University, Boca Raton, FL, USA | 2:40 Restoring Ecosystem Function in the P-Enriched Everglades: Improving Habitat for Wildlife -- Mark I. Cook, Susan Newman, Scot E. Hagerthey and R. Mac Kobza; South Florida Water Management District, West Palm Beach, FL, USA, U.S. Environmental Protection Agency, Arlington, VA, USA, Boulder County Parks and Open Space, Longmont, CO, USA | 2:40 Discharge Competence as a Mechanism for Peatland Pattern Formation -- James B. Heffernan, Danielle L. Watts, Matthew J. Cohen; Department of Biological Sciences, Florida International University, Miami, FL, USA, Southeast Environmental Research Center, Florida International University, Miami, FL, USA, School of Natural Resources and Environment, University of Florida, Gainesville, FL, USA, School of Forest Resources and Conservation, University of Florida, Gainesville, FL, USA |
### 9th INTECOL: International Wetlands Conference

**Wednesday, June 6, 2012 | 1:30pm – 3:00pm**

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| **Session #93: Wetland Fauna**  
[Curacao 1 & 2]  
**Moderator:** Colleen Charles, USGS, Reston, VA, USA | **Session #94: Fire: Shaping Wetlands from Nutrients to Wildlife (Part 4 of 4)**  
[Curacao 3 & 4]  
**Moderator:** Todd Osborne, University of Florida, Gainesville, FL, USA | **Session #95: Advanced Remote Sensing II: RADAR for Water & Biomass (Part 2 of 3)**  
[Curacao 5 & 6]  
**Moderator:** John Jones, USGS, Reston, VA, USA | **Session #96: Emerging Issues in Wetland Restoration in the Peoples Republic of China (Part 1 of 2)**  
[Curacao 7 & 8]  
**Moderator:** Kevin Erwin, Kevin Erwin Consulting Ecologist, Inc., Fort Myers, FL, USA |
| 1:30 | Session Overview | 1:30 | Session Overview |
| 1:40 | Using Qualitative Frameworks and Quantitative Tools to Optimize Shorebird Habitat at Cabo Rojo Wildlife Refuge, Puerto Rico – Louise B. Alexander1, Christina A. Drew2 and Jaime A. Collazo2  
1North Carolina Cooperative Fish and Wildlife Research Unit, North Carolina State University, Raleigh, NC, USA, 2USGS North Carolina Cooperative Fish and Wildlife Research Unit, North Carolina State University, Raleigh, NC, USA | 1:40 | Fire, Water, Soil and Sea Level Influence the Position of Mangrove – Marsh Ecotones through Time – T.J. Smith III1, A.M. Foster2, G.T. Range3 and J.W. Jones3  
1USGS, Southeast Ecological Science Center, St. Petersburg, FL, USA, 2USGS, Southeast Ecological Science Center, Gainesville, FL, USA, 3Jacobs Technology, St. Petersburg, FL, USA, 4USGS, Eastern Region Geography, Reston, VA, USA | 1:40 | Suitability of the New Generation of SAR Satellites to the Wetland InSAR Application – Shimon Wdowinski1, Sang-Hoon Hong1 and Brian Brisco1  
1University of Miami, Miami, FL, USA, 2Korea Aerospace Research Institute, Daejeon, Republic of Korea, 3Canada Centre for Remote Sensing, Ottawa, Canada | 1:30 | Session Overview |
| 2:00 | Seasonal Hydrology Drives Predator and Prey Co-occurrence along a Marsh-Mangrove Ecotone: Implications across Ecological Scales – Jennifer S. Heghe, Earth & Environment Department, Southeast Environmental Research Center, Florida International University, Miami, FL, USA | 2:00 | A Successional Model for Restoration and Management of South Florida Plant Communities – Michael Duever1, Richard Roberts2 and Jean McCollom3  
1Natural Ecosystems, Naples, FL, USA, 2Florida Department of Environmental Protection (retired), Hobe Sound, FL, USA, 3Florida Fish and Wildlife Conservation Commission, Felda, FL, USA | 2:00 | High-Resolution Wetland Water Level Monitoring towards Everglades Restoration Integrating Synthetic Aperture Radar Interferometry and Satellite Radar Altimetry – C.K. Shum1, Hyongki Lee2, John W. Jones3, Jinwoo Kim3 and Zhong Lu4  
1Division of Geodetic Science, School of Earth Sciences, Ohio State University, OH, USA, 2Department of Civil & Environmental Engineering, Univ. Houston, TX, USA, 3US U.S. Geological Survey, Reston, VA, USA, 4US Geological Survey, Vancouver, WA, USA | 2:00 | Session Overview |
| 2:20 | A Novel Method for Camera Trapping Small Mammals in Irregularly Flooded Marsh Environments – Melissa A. DeSa1, Christa L. Zweig1, Rodney Hunt1, H. Franklin Percival2 and Wiley M. Kitchens2  
1University of Florida, Florida Cooperative Fish and Wildlife Research Unit, Gainesville, FL, USA, 2USGS, Florida Cooperative Fish and Wildlife Research Unit, Gainesville, FL, USA | 2:20 | A Transitional Fire Model for Restoration and Management of Natural South Florida Plant Communities – Richard Herts1, Michael Duever2 and Jean McCollom3  
1Division of Geodetic Science, School of Earth Sciences, Ohio State University, OH, USA, 2Department of Civil & Environmental Engineering, Univ. Houston, TX, USA, 3Water Resources and Environmental Science, Chongqing Normal University, Chongqing, China, 4Hohsun Research Institute, Republic of Korea | 1:30 | Session Overview |
| 2:40 | Considering Climate Change in State Wildlife Action Planning for Florida – Michael Faxman1, Juan Carlos Vargas Moreno1 and Steve Traxler1  
1University of Miami, Miami, FL, USA, 2University of California, Berkeley, CA, USA | 2:00 | The Littoral Zone of the Three Gorges Reservoir: Challenges and Opportunities – Xiongzhong Yuan1,2, Hong Liu3, Rong Sun4, Qiang Wang1,2 and Bo Li1,3  
1College of Resources and Environmental Science, Chongqing University, Chongqing, China, 2Key Laboratory for Exploitation and Environmental Disaster Control Engineering, Ministry of Education, Chongqing University, Chongqing, China, 3Key Laboratory for Exploitation and Environmental Disaster Control Engineering, Ministry of Education, Chongqing University, Chongqing, China |
| 2:40 | Both Summer and Winter Flooding Determine the Biodiversity and Above-Ground Biomass Pattern of Vegetation in the Drawdown Area of China’s Three Gorges Reservoir – Qiang Wang1,2, Xingzhong Yuan1,2, Hong Liu3, J.H. Martin Willison2, Yuewei Zhang1,2, Zhongli Chen1 and Bo Li1,3  
1College of Resources and Environmental Science, Chongqing University, Chongqing, China, 2Key Laboratory for the Exploitation of Southwestern Resources and the Environmental Disaster Control Engineering, Ministry of Education, Chongqing University, Chongqing, China, 3Institute for Environmental Research (Biology) V, RWTH Aachen University, Aachen, Germany |
## Session #97: Coastal Sustainability: Structures and Processes for Linking Science and Decision Making (Panel 2)

**[Grand Sierra Ballroom B]**

**Moderator:** Lynn Scarlet, Resources for the Future, Arlington, VA, USA

### Session Overview

3:30 – 3:45 Trainer (Royal Gardner) and Moderator Reconvene Training Session

3:45 – 5:00 Additional Case Studies and Audience Participation - Session will Close with Audience Question/Answer Forum

This panel will begin with an examination of the interface of science and decision making, with a particular focus on governance contexts and decision processes, drawing on examples from the Great Lakes and the Everglades. Dialogue among Panel 1 and Panel 2. The science panel is joined by participants from the governance panel for a 45-minute facilitated dialogue on opportunities and challenges, within contexts of coastal and wetland restoration, enhancement and protection, of coordinating decisions across agencies, linking issues, and generating information relevant to decision making.

## Session #98: The SWSPCP CODE OF ETHICS: Code Compliance as a Working Professional (Part 2 of 2)

**[Grand Sierra Ballroom C]**

**Moderator:** James Perry, VIMS/The College of William & Mary, Gloucester Point, VA, USA

### Session Overview

3:30 - 3:45 Trainer (Royal Gardner) and Moderator Reconvene Training Session

### Panelists

- Charles Curtin
- Rachel Jacobson
- John Ogden

This panel will begin with an examination of the interface of science and decision making, with a particular focus on governance contexts and decision processes, drawing on examples from the Great Lakes and the Everglades. Dialogue among Panel 1 and Panel 2. The science panel is joined by participants from the governance panel for a 45-minute facilitated dialogue on opportunities and challenges, within contexts of coastal and wetland restoration, enhancement and protection, of coordinating decisions across agencies, linking issues, and generating information relevant to decision making.

## Session #99: Wildlife, Exotics & Restoration

### Assessing the Condition of Exotic Plant Species in Big Cypress National Preserve and Everglades National Park

- **Jed R. Redwine**
- **Mario Londono**
- National Park Service, Palmetto Bay, FL, USA

### Targeted Ecological Restoration through Shallow Wetland Mitigation Banking with Wood Stork Benefits

- **Jason A. Lauritsen**
- **Tim Durham**
- National Audubon Society, Naples, FL, USA
- Stantec, Naples, FL, USA

### Fish Use of Canals as Dry-Season Refuges in a Seasonally Variable Freshwater Wetland

- **Ann C. Hijuelos**
- **Joel C. Trexler**
- Florida International University, Miami, FL, USA

## Session #100: Wetland Hydrology: Methods for Assessment (Part 2 of 2)

### Application of the MIKE SHE Model to Assess the Hydrologic Criteria for Defining Wetlands in the Lower Coastal Plain

- **Z. Dai**
- **D. Amatya**
- **C.C. Trettin**
- University of New Hampshire, Durham, NH, USA
- USDA Forest Service, Cordesville, SC, USA

### Threshold Simulation Method for Determining Wetland Hydrologic Status

- **William F. Hunt**
- Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC, USA

### Testing Wetland Hydrology Criteria Modeling with Long Term Water Table Data

- **Thomas M. Williams**
- Baruch Institute of Coastal Ecology and Forest Science, Clemson University, Georgetown, SC, USA

### Evaluating Methods for Determining Whether a Site Meets Wetland Hydrology Criteria

- **George M. Chescheir**
- **R. Wayne Skaggs**
- North Carolina State University, Raleigh, NC, USA
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<th>Session #101: Constructed Wetlands</th>
<th>Session #102: Biogenic Gas Emissions from Peatlands: The Importance of Tropical and Subtropical Ecosystems (Part 3 of 3)</th>
<th>Session #103: Blue Carbon Green Opportunities (Part 1 of 4)</th>
<th>Session #104: Self-organized Landscapes: Coastal Wetlands (Part 3 of 3)</th>
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<td>Moderator: Mark Clark, University of Florida, Gainesville, FL, USA</td>
<td>Moderator: Boone Kauffman, Oregon State University, Corvallis, OR, USA</td>
<td>Moderator: Ariana Sutton-Grier, National Oceanic and Atmospheric Administration, Silver Spring, MD, USA</td>
<td>Moderator: Rene Price, Florida International University, Miami, FL, USA</td>
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<td>Advances in the Use of Passive Wetland Systems for Selenium Treatment of Mine-Impacted Water -- J. Bays1, BT Thomas3, T.Harrison4 and D. Evans5; 1CH2MILL, Tampa, FL, USA, 2CH2MILL, Atlanta, GA, USA, 3CH2MILL, Cincinnati, OH, USA, 4CH2MILL, Houston, TX, USA</td>
<td>Soil, Water and Course Woody Debris Respiration Fluxes and Dissolved Aqueous CO2 in a Tidal Mangrove Forest in the Everglades -- Tiffany Troxler1, Jose Fuentes2, Vic Engel3, Jordan Barr4, Victor Rivera-Monroy5, Robert Twilley1, Thomas Smith5; 1Southeastern Environmental Research Center, Florida International University, Miami, FL, USA, 2Department of Meteorology, Pennsylvania State University, University Park, PA, USA, 3Everglades National Park, Homestead, FL, USA, 4Department of Oceanography and Coastal Sciences, Louisiana State University, Baton Rouge, LA, USA, 5Center for Coastal and Watershed Studies, US Geological Survey, St. Petersburg, FL, USA</td>
<td>Blue Carbon: A Transformational Tool for Marine Management and Conservation Globally -- Emily Pidgeon, Conservation International, Arlington, VA, USA</td>
<td>Chemical Sedimentation, Peat Formation and Development of a Palaeoenvironmental Record for the Subtropical Coastal Plain of Maputaland, South Africa -- Marc S. Humphries1, Finch M. Finch1, Claudia R. Benitez-Nelson2 and Letitia Pillay3; 1School of Chemistry, University of the Witwatersrand, South Africa, 2School of Environmental Science, University of KwaZulu-Natal, South Africa, 3Department of Earth and Ocean Sciences, University of South Carolina, USA, 4School of Chemistry, University of KwaZulu-Natal, South Africa</td>
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<td>Sub-surface Flow Wetlands -- Constructed Wastewater Treatment System -- John O’Meara1, Robert Wiley2, David Flowers3 and Alice Bailey1; 1Environmental Consulting &amp; Technology, Inc., Ann Arbor, MI, USA, 2St. Clair County Drain Commissioner, St. Clair County, MI, USA, 3Natural Water Solutions, LLC, Cedarburg, WI, USA</td>
<td>Influences of Cold Air Masses on Trace Gas Exchange between Mangroves and the Atmosphere -- Jose D. Fuentes1, Vic Engel2 and Jordan G. Barr3; 1Pennsylvania State University, University Park, PA, USA, 2Everglades National Park, Homestead, FL, USA</td>
<td>Green Payments for Blue Carbon: Economic Incentives for Protecting Threatened Coastal Habitats -- David Gordon, Brian C. Murray, Linwood Pendleton, W. Aaron Jenkins and Samantha Sifleet; Nicholas Institute for Environmental Policy Solutions, Durham, NC, USA</td>
<td>Feedbacks Shape Seagrass Landscapes -- Tjisse van der Heide1, Alfons J. P. Smolders1, Johan S. Eklöf2, Ellen J. Weerman3, Egbert H. van Nes1, Johan van de Koppel4, Tjeerd J. Bouma5, B. Klemens Eriksson6, Marieke M. van Katwijk7 and Han Oloff2; 1University of Groningen, Groningen, The Netherlands, 2Radboud University Nijmegen, Nijmegen, The Netherlands, 3University of Gothenburg, Sweden, 4Wageningen University, Wageningen, The Netherlands, 5NIOZ Royal Netherlands Institute for Sea Research, Yerseke, The Netherlands</td>
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<td>Using Constructed Wetlands for Recycling Waste Water to Protect Surface and Ground Water -- M. L. Robinson and Angela O’Callaghan; University of Nevada College of Cooperative Extension, Las Vegas NV, USA</td>
<td>Dynamic Hotspots of Nitrous Oxide and Methane in Coastal Marshes: Responses to Two Long-term Fertilization Experiments -- Serena Moreseman-Valtierra1 and Kevin D. Kroeger2; 1University of Rhode Island, Department of Biological Sciences, Kingston, RI, USA, 2USGS Coastal and Marine Science Center, Falmouth, MA, USA</td>
<td>Use of Assisted Migration and Community Zonation Patterns to Build a Climate-Resilient Coastal Landscape -- Loretta L. Battaglia and Hannah J. Kalk; Southern Illinois University, Carbondale, IL, USA</td>
<td>Do Local Interactions or the Landscape Determine Spatial Self-organization in Wetland Ecosystems? -- Johan van de Koppel; Royal Netherlands Institute for Sea Research, Yerseke, The Netherlands</td>
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Wednesday, June 6, 2012 | 3:30 pm – 5:00 pm
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<td><strong>Curacao 1 &amp; 2</strong></td>
<td><strong>Session #106: Water Quality - Phosphorus</strong></td>
<td><strong>Session #107: Advanced Remote Sensing III: Monitoring (Part 3 of 3)</strong></td>
<td><strong>Session #108: Emerging issues in Wetland Restoration in the Peoples Republic of China (Part 2 of 2)</strong></td>
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<td><strong>Moderator: Dale Knapp, Stantec, Topsham, ME, USA</strong></td>
<td><strong>Moderator: Kevin Grace, DB Environmental, Inc., Rockledge, FL, USA</strong></td>
<td><strong>Moderator: John Jones, USGS, Reston, VA, USA</strong></td>
<td><strong>Moderator: Kevin Erwin, Kevin Erwin Consulting Ecologist, Inc., Fort Myers, FL, USA</strong></td>
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<td><strong>Tree Growth Response across an Hydrological Gradient at Four Holes Swamp, South Carolina</strong></td>
<td><strong>Performance and Sustainability of a Submerged Aquatic Vegetation-Dominated Constructed Wetland for Everglades (USA) Restoration</strong></td>
<td><strong>Evaluating Radar Sensors for Retrieving Mangrove Biophysical Parameters of Both Pristine and Degraded Forests -- John M. Kovacs, Xixi Lu, Xianfeng Jiao, Chunhua Zhang and Francisco F. de Santiago</strong></td>
<td><strong>Eco-economic Aspects of a Dike-pond Project in the Drawdown Zone of the Three Gorges Reservoir -- Bo Li, Xingzhong Yuan and J.H. Martin Willison</strong></td>
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<td>- William H. Conner and Dan Tufford, Baruch Institute of Coastal Ecology and Forest Science, Georgetown, SC, USA, University of South Carolina, Columbia, SC, USA</td>
<td>- Forrest E. Dierberg, Thomas A. DeBusk, Scott D. Jackson, Kevin Grace, Stacey Galloway, Nancy Chan and Delia Ivanoff, DB Environmental, Inc., Rockledge, FL, USA, South Florida Water Management District, West Palm Beach, FL, USA</td>
<td>- Dipissing University, North Bay, ON, Canada, National University of Singapore, Singapore, East Tennessee State University, Johnson City, TN, USA, University of Western Ontario, London, ON, Canada</td>
<td>- Key Laboratory of Exploitation of Southwest Resources and Environmental Hazards Control Engineering, Ministry of Education, Chongqing University, Chongqing, China, School for Resource and Environmental Studies, Dalhousie University, Halifax, NS, Canada</td>
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<td><strong>Floristic Variation across 600 Km of Inundation Forests along the Rio Negro -- Juan Carlos Montero, Florian Wittmann, Albert Reif and Maria Teresa Piedad, Institute of Silviculture and Vegetation Science, University of Freiburg, Germany, Max Planck Institute for Chemistry and Biogeochemistry, INPA/Max Planck Project, Manaus, Brazil, National Institute for Research in the Amazon (INPA), Manaus, Brazil</strong></td>
<td><strong>Long-term Dynamics of Nitrogen and Phosphorus Concentrations in Waters of a Restored Forested Wetland -- Craig Duxbury, Scott Davidson, Terry Auter and Tom DeBusk, Walt Disney Imagineering, Research and Development, Lake Buena Vista, FL USA, Thermo Fisher Scientific, Sanford, FL USA, Azurea, Inc., Rockledge, FL USA</strong></td>
<td><strong>Monitoring Wetland Changes Using Multitemporal Landsat Change Detection, Web Mapping Services, and Crowd Sourcing -- J. Dykstra, D. Meeks, D. Cunningham, A. Estrada and G. Koeln, MDA Information Systems, Inc., Geospatial Division, Gaithersburg, Maryland, USA</strong></td>
<td><strong>Twenty-Six Years of Changing Vegetative Cover and Marsh Area -- Michael S. Kearney, J. C. Alexis Riter and R. Eugene Turner, University of Maryland, College Park, USA, Louisiana State University, Baton Rouge, LA, USA</strong></td>
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<td><strong>Early Growth Performances of the Swamp-forest Tree Pterocarpus officinalis Regarding Soil and Light Conditions -- M. Dulormne, D. Imbert, F. Bompy, V. Virapin, V. Lapido and N. Texier, Université des Antilles et de la Guyane, Pointe-à-Pitre, Guadeloupe (F.W.I.), France</strong></td>
<td><strong>Water, Ion and Phosphorus Budgets of a Periphyton-based Stormwater Treatment Area -- R. Thomas James, South Florida Water Management District, West Palm Beach, Florida, USA</strong></td>
<td><strong>Coastal Wetland Monitoring by High-Resolution Satellite Imagery -- Mon-Shieh Yang, Ming-Chee Wu, Shu-Mei Yu and Shu-Mei Huang, National Cheng Kung University, Tainan, Taiwan, ROC</strong></td>
<td><strong>A Proposal for Developing an Integrated Master Plan in the Three Gorges Reservoir Eco-region -- Kevin L. Erwin, Kevin Erwin Consulting Ecologist, Inc., Fort Myers, Florida, USA</strong></td>
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<td><strong>Wetlands of the Brazilian Amazon: Extent and Recent Issues and Concerns on Their Protection -- Maria Teresa Fernandez Piedade, Wolfgang J. Junk, Florian Wittmann and Jochen Schöngart, National Institute for Amazon Research, INPA, Manaus, Amazonas, Brazil, National Institute for Wetlands, INAU, Cuiabá, Mato Grosso, Brazil, Max Planck Institute for Chemistry, Mainz, Germany</strong></td>
<td><strong>Nitrogen and Phosphorus Cycles in Constructed Tidal Flat in Tokyo Bay -- Kazuo Murakami, Nana Sasaki, Yuuseki Umeda, Tomohiro Kuwae and Kouta Nakase, Tokyo City University, Setagaya, Tokyo, JAPAN, Port and Airport Research Institute, Yokosuka, Kanagawa, JAPAN, Penta Ocean Construction, Bunkyo, Tokyo, JAPAN</strong></td>
<td><strong>The Purification Effect of Reed-dominated Raised Fields in a Freshwater Wetland in Northern China -- Yan Lan, Beijing Normal University, Beijing, China</strong></td>
<td><strong>The Purification Effect of Reed-dominated Raised Fields in a Freshwater Wetland in Northern China -- Yan Lan, Beijing Normal University, Beijing, China</strong></td>
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<td>Moderator: Pat Megonigal, Smithsonian Environmental Research Center, Edgewater, MD, USA</td>
<td>Moderator: Carol Mitchell, Everglades and Dry Tortugas National Park, Homestead, FL, USA</td>
<td>Moderator: Syed Khali, Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA</td>
<td>Moderator: Laurel Larsen, U.S. Geological Survey, Reston, VA, USA</td>
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<td>10:30 Session Overview</td>
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<td>10:40 Forecasting Blue Carbon in Tidal Marshes: The Balance between Carbon Sequestration and Methane Emissions -- J. T. Morris1,2 and J. P. Megonigal1,2; Belle Baruch Institute for Marine &amp; Coastal Sciences, University of South Carolina, Columbia, SC USA, 2Smithsonian Environmental Research Center, Edgewater, MD USA</td>
<td>10:40 Estimating the Cumulative Ecological Effect of Local Scale Landscape Changes in South Florida -- Dianna M. Hogan3, William Labiosa2, Leonard Pearlstine3, David Hallac4, David Strong4, Paul Hearn2 and Richard Bernkopf1, 3US Geological Survey Eastern Geologic Science Center, Reston, VA, USA, 4US Geological Survey Western Geographic Science Center, 3NPS South Florida Natural Resources Center, Everglades and Dry Tortugas National Parks, FL, USA, 4NPS Yellowstone Center for Resources, Yellowstone National Park, WY, USA, 4Department of Economics, University of New Mexico, NM, USA</td>
<td>10:40 Great Barrier Reef Catchment: Wetlands Risk Assessment -- Maria Vandergragt, Cheree Fenton and Adam Forkland; Department of Environment and Resource Management, Environment and Resource Sciences, Water Quality and Aquatic Ecosystem Health, Brisbane Qld., Australia</td>
<td>10:40 Widespread 18th-20th c. Burial of Holocene Wet Meadows in the Mid-Atlantic Region, USA, and their Restoration Potential -- Dorothy Merritts1, Robert Walter2, Allen Gellis3, Jeff Hartrant4, William Hilgartner5, Michael Langland6, Paul Mayer7, Ward Oberholtzer2 and Michael Rahnis1,2; Franklin and Marshall College, Lancaster, PA, USA, 1U. S. Geological Survey, Baltimore, MD, USA, 2Department of Environmental Protection, Harrisburg, PA, USA, 3Johns Hopkins University and Friends School of Baltimore, Baltimore, MD, USA, 4U. S. Geological Survey, Harrisburg, PA, USA, 5U. S. Environmental Protection Agency, Ada, OK, USA, 6LandStudies, Inc., Lititz, PA, USA</td>
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<td>11:00 Modeling Sea-level Rise Effects on Tidal Wetland Distribution in the San Francisco Bay Estuary -- Lisa M. Schile3, John C. Callaway1, James T. Morris1 and N. Maggi Kelly1, 1University of California, Berkeley, Berkeley, CA USA, 2University of San Francisco, San Francisco, CA USA, 3University of South Carolina, Columbia SC USA</td>
<td>11:00 Effect of Water Management on Water Supply to Everglades National Park: 1940 to 2010 -- Kevin Kotun; National Park Service, Homestead, FL, USA</td>
<td>11:00 The Design for the Wetland Restoration of a Freshwater Cranberry Bog in New England -- Lee Weishear, Woods Hole Group, Falmouth, MA, USA</td>
<td>11:00 Millennial Pre-settlement Stability of Sedge Meadow Habitats in Two Piedmont River Valleys -- William Hilgartner1, Dorothy Merritts2, Robert Walter2, Michael Rahnis3, Christopher Bernhardt1, Jeff Hartrant4, Ali Neugebauer2, Mark Voil3, Hanna Jantz1, Amy Moser1 and Candace Grand Pre4, 3Johns Hopkins University and Friends School of Baltimore, Baltimore, MD, USA, 4U. S. Geological Survey, Harrisburg, PA, USA, 5U. S. Environmental Protection Agency, Ada, OK, USA, 6LandStudies, Inc., Lititz, PA, USA</td>
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<td>11:40 Blue Carbon Stored in the Seagrass Beds of the World -- James W. Fourquarean1, Hilary A. Kennedy2, Nuria Marbá1, Miguel A. Mateo3, Gary A. Kendrick1 and Carlos M. Duarte3, 2Florida International University, North Miami, FL, USA, 3Bangor University, Bangor, Anglesey, UK, 4Center for Advanced Studies, Spanish High Council for Scientific Research, Blanes, Spain, 5Mediterranean Institute for Advanced Studies, Spanish High Council for Scientific Research, Esporles, Mallorca, Spain, 6University of Western Australia, Perth, WA, Australia</td>
<td>11:40 Blue Carbon Stored in the Seagrass Beds of the World -- James W. Fourquarean1, Hilary A. Kennedy2, Nuria Marbá1, Miguel A. Mateo3, Gary A. Kendrick1 and Carlos M. Duarte3, 2Florida International University, North Miami, FL, USA, 3Bangor University, Bangor, Anglesey, UK, 4Center for Advanced Studies, Spanish High Council for Scientific Research, Blanes, Spain, 5Mediterranean Institute for Advanced Studies, Spanish High Council for Scientific Research, Esporles, Mallorca, Spain, 6University of Western Australia, Perth, WA, Australia</td>
<td>11:40 Carbon and Stakeholder Conditions -- Jimmy Sellers1, Jenna Vogt-Phillips2 and Curtis Smith1, 1Coastal Technology Corporation, Vero Beach, FL, USA, 2Sarasota County Public Works, Sarasota, FL USA</td>
<td>11:40 The Role of River-Floodplain Connectivity in Nitrogen Removal -- Durelle Scott and C. Nathan Jones; Virginia Tech, Blacksburg, VA, USA</td>
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<td>12:10 Exceptionally High Carbon Stocks of Mangroves and their Potential Conservation through Global Carbon Markets -- J Boone Kauffman1, Maria Fenanda Adame1,2, and Daniel Monato1, 1Oregon State University, Corvallis, Oregon, USA, 2CINVESTAV-IPN, Mérida, Yucatán México, 3University of Wisconsin, Madison, WI USA</td>
<td>12:10 Water Budget, Climate Variability, and Predicting Salinity for Eastern Florida Bay -- Erik Stabenau and Kevin Kotun; National Park Service, Homestead, FL, USA</td>
<td>12:10 The Design for the Wetland Restoration of a Freshwater Cranberry Bog in New England -- Lee Weishear, Woods Hole Group, Falmouth, MA, USA</td>
<td>12:10 Sedimentation Patterns on the Restored Reach of the Kissimmee River Floodplain -- Cliff R. Hupp and Edward R. Schenk; U.S. Geological Survey, Reston, VA, USA</td>
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Thursday, June 7, 2012 | 10:30am – 12:00pm

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<td>Moderator: P.V. Sundareshwar, South Dakota School of Mines and Technology, Rapid City, SD, USA</td>
<td>Moderator: James Bays, CH2MHILL, Tampa, FL, USA</td>
<td>Moderator: Scott Neubauer, University of South Carolina, Georgetown, SC, USA</td>
<td>Moderator: Valsin Marmillion, America’s WETLAND Foundation, New Orleans, LA, USA</td>
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<td>10:30 Session Overview</td>
<td>10:40 Sediment Dynamics in Restored Tidal Wetlands of San Francisco Bay -- John C. Callaway, Lisa M. Schillie, Ewyn L. Borgnis, V. Thomas Parker and Donna Ball, University of San Francisco, San Francisco, CA, USA, University of California, Berkeley, CA, USA, San Francisco State University, San Francisco, CA, USA, H.T. Harvey &amp; Associates, Los Gatos, CA, USA</td>
<td>10:40 Salinity Changes Biogeochemistry and Ecosystem Functioning; on the Roles of Sodium Chloride, Sulfate, and Nutrients -- Leon P.M. Lamers, Radboud University Nijmegen, Nijmegen, Nethelands</td>
<td>10:30 Session Overview</td>
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<td>11:00 Cryptic Phosphorus in the Environment: Composition, Behavior, and Ecological Significance -- Benjamin L. Turner, Smithsonian Tropical Research Institute, Apartado, Balboa, Ancon, Republic of Panama</td>
<td>11:00 Wetland Loss and Degradation: The Hidden Costs of Ethical Oil -- Rebecca C. Rooney, Suzanne E. Bayley and Dustin Raab; Dept of Biological Sciences, University of Alberta, Edmonton, AB, Canada</td>
<td>11:00 How Does Saltwater Intrusion Alter Anaerobic Microbial Metabolism in a Freshwater Wetland? -- Amy J Burgin, Valerie A. Schoepfer, Ashley M. Helton, Marcelo Ardon, Emily S. Bernhardt, Robert A. Payn and Geoffrey C. Poole, School of Natural Resources, University of Nebraska-Lincoln, Lincoln, NE, USA, Biology Department, Duke University, Durham NC, USA, Biology Department, East Carolina University, Greenville NC, USA, Department of Land Resources and Environmental Sciences, Montana State University, Bozeman, MT, USA</td>
<td>11:00 An Analysis of a Multi-million Dollar Study Showing Rising Sea Levels, Fiercer and More Frequent Hurricanes Could Result in 350 B in Losses for the Gulf Coast -- Sidney Coffee and Valsin A. Marmillion, America’s WETLAND Foundation, New Orleans, LA, USA</td>
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<td>11:20 Phosphorus Composition and Reactivity in Outflow Water from Constructed Wetlands -- C. Jørgensen, K. S. Inglett and K. R. Reddy, Centre for Lake Restoration, Institute of Biology, University of Southern Denmark, Denmark, University of Florida, IFAS, Soil and Water Science Department, FL, USA</td>
<td>11:20 Restoring Functional Diversity in Rich Fens by Tree Cutting and Ditch-Blocking -- Håkan Rydin, Petter Hedberg, Sebastian Sundberg, Viktor Kotowski, Peter Sætre and Kalle Målson, University of Uppsala, Uppsala, Sweden, University of Warsaw, Warsaw, Poland, Karolinska Institutet and Hospital, Stockholm, Sweden, Uppsala County Administrative Board, Uppsala, Sweden</td>
<td>11:20 Simulating the Influence of Saltwater Intrusion on Coupled Element Cycles in Coastal Plain Wetlands -- Ashley M. Helton, Geoffrey C. Poole, Emily S. Bernhardt, Robert A. Payn, Clemente Izurieta and Amy J. Burgin, Biology Department, Duke University, Durham NC, USA, Department of Land Resources and Environmental Sciences, Montana State University, Bozeman, MT, USA, Computer Science Department, Montana State University, Bozeman, MT, USA, School of Natural Resources, University of Nebraska-Lincoln, Lincoln, NE, USA</td>
<td>11:20 A Review of the Research Process - Including Interviews, Focus Groups and Forums Held in 11 Cities in Four Gulf States -- Sidney Coffee and Valsin A. Marmillion, America’s WETLAND Foundation, New Orleans, LA, USA</td>
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<td>11:40 Does Phosphorus Status in Spartina alterniflora Regulate Oxidized Rhizosphere? -- P. V. Sundareshwar, South Dakota School of Mines and Technology, Rapid City, SD, USA</td>
<td>11:40 Environmental Compliance and Ecological Restoration with Floating Wetland Islands -- Kevin Hedge and Ted Gattino; BlueWing Environmental Solutions &amp; Technologies, LLC, Elicott City, MD, USA</td>
<td>11:40 The Effect of Saltwater Intrusion on Coupled Iron and Sulfur Cycling in a Coastal Freshwater Wetland -- Valerie A. Schoepfer and Amy J. Burgin; School of Natural Resources, University of Nebraska, Lincoln, NE, USA</td>
<td>11:40 Presentation on Findings of the 11 Forums and What Solutions all Four States Can Agree Upon to Make the Gulf Coast More Resilient -- Sidney Coffee and Valsin A. Marmillion, America’s WETLAND Foundation, New Orleans, LA, USA</td>
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### Session #121: Policy, Economics, and Management of Blue Carbon (Part 3 of 4)

**[Grand Sierra Ballroom B]**

**Moderator:** Steve Emmett-Mattox, Restore America’s Estuaries, Arlington, VA, USA

1:30  **Session Overview**

1:40  **Incorporating Carbon Management for Climate Change Mitigation into Coastal Management Planning** -- Richard F. Ambrose¹ and Stephen Crooks²; ¹University of California, Los Angeles, CA USA; ²ESA PWA, San Francisco, CA USA

2:00  **Creating a Blue Carbon Asset under the Verified Carbon Standard** -- Ignacio M. Emmer, Silvestrum, The Netherlands

2:20  **Leveraging Carbon Services for Habitat Conservation: NOAA’s Blue Carbon Interests** -- Ariana E. Grier, R. Eugene Turner, Department of Oceanography and Coastal Sciences, Louisiana State University, Baton Rouge, LA USA; ¹Pedro C. de Souza; ²Texas A & M University at Galveston, Galveston, TX USA

2:40  **Making a Difference: Repackaging is Not as Simple as it Seems: Lessons Learned on the C-44 Project** -- Brooke Ahrens, HDR Engineering, West Palm Beach, FL, USA

### Session #122: Extreme Events

**[Grand Sierra Ballroom C]**

**Moderator:** Cheryl Ulrich, Weston Solutions Inc., Atlantic Beach, FL, USA

1:30  **Session Overview**

1:40  **Effects of Drought on Restored and Reference Brackish Marshes in the Northwestern Gulf of Mexico** -- E. L. Kinney, A. R. Armitage and A. S. Quigg; Texas A & M University at Galveston, Galveston, TX USA

2:00  **Historical Analysis of Wetland Sedimentation from Tropical Cyclones in Coastal Louisiana** -- Andrew W. Tweel and R. Eugene Turner, Department of Oceanography and Coastal Sciences, Louisiana State University, Baton Rouge, LA, USA

2:20  **Tropical Storm Impacts to Everglades Stormwater Treatment Area Submerged Aquatic Vegetation Communities** -- Scott Jackson, Thomas E. DeBusk, Jaimee Henry and Neil Larson; ¹DB Environmental, Inc., Rockledge, FL, USA; ²South Florida Water Management District, West Palm Beach, FL, USA

2:40  **Sedimentation Patterns Within the Atchafalaya Basin and Morganza Spillway Before and After the Lower Mississippi Flood of 2011** -- Edward R. Schenk, Dan Krones and Cliff R. Hupp; ¹US Geological Survey, Reston, VA, USA; ²US Geological Survey, Baton Rouge, LA, USA

### Session #123: Ecosystem Restoration

**[Antigua 1 & 2]**

**Moderator:** Brian Files, Parsons, Jacksonville, FL, USA

1:30  **Session Overview**

1:40  **Managing Implementation of a Multi-Decadal Ecosystem Restoration Program** -- Eric Bush, U.S. Army Corps of Engineers, Jacksonville District, Jacksonville, FL, USA

2:00  **Ten years of CERP: Idealism, Confusion, Recession, Reality. A History of the Ups and Downs of Everglades Restoration** -- Barbara Cintron, Planning and Policy Division, U.S. Army Corps of Engineers, Jacksonville, FL, USA

2:20  **The C-111 Spreader Canal Project: A Unique Example of Public Involvement and Adaptive Management** -- Kenneth G. Ammon, Devon Utler and Jorge Jaramillo; ¹WRScoppas, West Palm Beach, FL, USA; ²South Florida water Management District, West Palm Beach, FL, USA

2:40  **Repackaging is Not as Simple as it Seems: Lessons Learned on the C-44 Project** -- Brooke Ahrens, HDR Engineering, West Palm Beach, FL, USA

### Session #124: The Role of Flow and Hydrologic Connectivity in Floodplain and Wetlands Ecosystems (Part 2 of 3)

**[Antigua 3 & 4]**

**Moderator:** Laurell Larsen, U.S. Geological Survey, Reston, VA, USA

1:30  **Session Overview**

1:40  **Field Flumes to Floodplains: Revealing the Influence of Flow Dynamics and Flood Pulses in Structuring River and Wetland Ecosystems** -- Jud Harvey, Laurel Larsen, and Katherine Skalak; National Research Program, U.S. Geological Survey, National Center, Reston, VA, USA

2:00  **Hydrologic Processes in a Patterned Peatland** -- David A. Kaplan³, Danielle L. Watts³, and Variations

2:20  **Water Residence Time and Nitrogen Loss in a Louisiana Delta: A Modeling Approach** -- Ben L. Branoff⁴, Robert R. Twilley⁵, Victor H. Rivera-Monroy⁶, Edward Castañeda-Moya⁷, Azure E. Bevington¹ and Kelly M. Henry¹; ¹Department of Oceanography and Coastal Science, Louisiana State University, Baton Rouge, LA, USA; ²University of Louisiana at Lafayette, Lafayette, LA, USA

2:40  **Long Term Ecological Research in the Upper Paraná River Floodplain, Brazil: Main Patterns and Variations** -- Angelo Antonio Agostinho, Luiz Carlos Gomes, Horácio Ferreira Júlio Jr and Sidinei Magela Thomaz, Universidade Estadual de Maringá, Brasil
| Session #125: Phosphorus - The Ultimate Limiting Element – from Cells to Communities (Part 2 of 2) [Bonaire 1 & 2]  
Moderator: P V. Sundareswar, South Dakota School of Mines and Technology, Rapid City, SD, USA  
1:30  
Session Overview  
1:40  
Uncertain Supplies, Shifting Demands, and the Sustainability of the Human Phosphorus Cycle -- James Else1, Genevieve Matson1 and Elena Bennett2; 2School of Life Sciences, Arizona State University, Tempe, AZ, USA, 3Department of Natural Resource Sciences & McGill School of Environment, McGill University, Montreal, Quebec, Canada  
2:00  
Toward Sustainable Phosphorus Management in the Anthropocene: Quantifying Potentially Recyclable Pools and Fluxes in the Landscape -- J. Thad Scott1, Andrew N. Sharpley1, Brian E. Haggard2 and Helen P. Jarvie3; 1Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, Arkansas, USA, 2Arkansas Water Resource Center, Fayetteville, Arkansas, USA, 3Centre for Ecology and Hydrology, Wallingford, UK  
2:20  
Phosphorus Cycling in a Settlement Pond of a Treatment Wetland -- Santiago Clerici1, 2Michael Krom1, Robert Mortimer1 and Sally MacKenzie1; 1University of Leeds, Leeds, UK, 2Wildfowl and Wetlands Trust, Slimbridge, UK  
2:40  
Media and Plants to Optimise Phosphorus Removal and Carbon Sequestration in Sub-surface Flow Constructed Wetlands -- Margaret Greenway and William Lucas; Griffith University, Brisbane, Qld, Australia  

| Session #126: Methane Dynamics in Peatland Ecosystems (Part 1 of 2) [Bonaire 3 & 4]  
Moderators: Jason Keller, Chapman University, Orange, CA, USA and Scott Bridgham, University of Oregon, Eugene, OR, USA  
1:30  
Session Overview  
1:40  
Controls Over Anaerobic Carbon Cycling and Methane Production in Peatlands -- Scott D. Bridgham1, Rongzhong Ye1, Jason K. Keller1, Steven McAllister2, Qusheng Jin1 and Brendan Bohannan1; 1University of Oregon, Eugene, OR, USA, 2Chapman University, Orange, CA, USA  
2:00  
Trophic Status and Methanogenesis in Peatlands -- Mark. E. Hines1, Jeff P. Chanton2 and Edward A.D. Mitchell2; 1University of Massachusetts Lowell, Lowell, MA, USA, 2Florida State University, Tallahassee, FL, USA, 3Université de Neuchâtel, Neuchâtel, Switzerland  
2:20  
The Role of Humic Substances as Terminal Electron Acceptors in Peatland Decomposition -- Jason K. Keller, Kimberly K. Takagi and Crisand Anderson; Chapman University, Orange, CA, USA  
2:40  
Understanding Anaerobic C Dynamics and Methane Production in Peatlands through Molecular Characterization of Porewater DOM Reactivity: Oxygen Shredding by DOM during Fermentation -- Malak M. Tlaily1, J. Elizabeth Corbett1, Jeffrey P. Chanton1, Paul H. Glaser2, William T. Cooper2, David J. Burdige3 and Paul H. Glaser2; 1Earth, Ocean, and Atmospheric Science, Florida State University, Tallahassee, FL, USA, 2Chemistry and Biochemistry, Florida State University, Tallahassee, FL, USA, 3Ocean, Earth and Atmospheric Sciences, Old Dominion University, Norfolk, VA, USA, 4Earth Sciences, University of Minnesota, Pillsbury Hall, Minneapolis, MN, USA  

| Session #127: Salinization of Freshwater Wetlands (Part 2 of 3) [Bonaire 5 & 6]  
Moderator: Amy Burgin, University of Nebraska-Lincoln, Lincoln, NE, USA  
1:30  
Session Overview  
1:40  
Saltwater Intrusion into Tidal Freshwater Marshes Drives Shifts at all Levels of Ecosystem Organization -- Scott C. Neubauer1, Rima B. Franklin2 and Michael F. Piehl3; 1University of South Carolina, Baruch Marine Field Laboratory, Georgetown, SC, USA, 2Virginia Commonwealth University, Richmond, VA, USA, 3University of North Carolina, Institute of Marine Sciences, Morehead City, NC, USA  
2:00  
The Impact of Changing Salinity on Aquatic Ecosystems: Why the Last Page only Tells Part of the Story -- Peter A. Gell and Keely Mills; Centre for Environmental Management, University of Ballarat, Mt. Helen, Vic., Australia  
2:20  
Saltwater Intrusion Alters Nitrogen and Carbon Export from a Restored Coastal Plain Wetland (North Carolina, USA) -- Marcelo Ardón1, Emily S. Bernhardt2, Ashley Heaton1, Amy Burgin3, Robert Payn3 and Geoffrey Poole4; 1Department of Biology, East Carolina University, Greenville NC, USA, 2Biological Department, Duke University, Durham NC, USA, 3School of Natural Resources, University of Nebraska-Lincoln NE, USA, 4Department of Land Resources and Environmental Sciences, Montana State University, Bozeman, MT, USA  
2:40  
Predicting the Impacts of Saltwater Intrusion on Ecosystem Dynamics in Tidal Freshwater Floodplain Forests in Coastal Georgia - Ellen R. Herbert1, John M. Marton1, Mihee Jun1, Erika R. Elswick2 and Christopher, B. Craft3; 1School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana, USA, 2Institute of Health and Environment, Gyeongsangnam-do, Republic of Korea, 3Department of Geological Sciences, Indiana University, Bloomington, Indiana, USA  

| Session #128: Amazonian Wetlands [Bonaire 7 & 8]  
Moderator: Robert Twilley, Univ of Louisiana at Lafayette, Lafayette, LA, USA  
1:30  
Session Overview  
1:40  
Remote Sensing of Large Wetlands: Capturing the Spatial and Temporal Dynamics of the Amazon Floodplain -- Thiago S. Silva1, Evlyn M. L. M. Novo2, Tarik S. Araújo1, Eduardo. M. Arraut2, Maycira P. F. Costa1 and John M. Melack3; 1Remote Sensing Division, National Institute for Space Research, S. José dos Campos, SP, Brazil, 2Earth System Sciences Center, National Institute for Space Research, S. José dos Campos, SP, Brazil, 3Department of Geography, University of Victoria, Victoria, BC, Canada, 4Bren School of Environmental Science and Management, University of California Santa Barbara, CA, USA  
2:00  
Flood-induced Endemism in Amazonian Floodplain Trees -- Florian Wittmann1, Ethan Householder2, Jochen Schöngart3, Maria T. F. Piedade1, Pia Parolin1 and Wolfgang J. Junk1; 1Max Planck Institute for Chemistry, Mainz, Germany, 2Max Planck Institute for Chemistry (MPIC), Mainz, Germany, 3National Institute for Amazon Research - INPA, Manaus, Brazil, 4University of Hamburg, Germany, 5National Institute for Wetlands, Cuiabá, Brazil  
2:20  
Ancient Trees in Amazonian Floodplains: Implications for Tropical Forest Ecology and Climate Change -- Jochen Schöngart1, Florian Wittmann3, Maria Teresa F. Piedade1 and Wolfgang J. Junk1; 1Max Planck Institute for Chemistry (MPIC), Mainz, Germany, 2National Institute for Amazon Research (INPA), Manaus, Brazil, 3National Institute for Wetlands, Cuiabá, Brazil  
2:40  
The Climate-Tree Growth Relation in Central Amazonian Black-water (igapó) Floodplain Forests -- Eliane Silva Batista1 and Jochen Shöngart2,3; 1Max Planck Institute for Chemistry, Biogeochemistry Department, Mainz, Germany, 2Instituto Nacional de Pesquisas da Amazônia (INPA), Manaus-AM, Brazil, 3Instituto Nacional de Ciência e Tecnologia em Áreas Úmidas (INAU), Federal University of Mato Grosso, Cuiabá-MT, Brazil
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<td><strong>Session #129: The Hydroecology of a Florida River and the Potential Ecological Effects of Human Water Use (Part 2 of 2)</strong></td>
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<td>Moderator: Edgar Lowe, St. Johns River Water Management District, Palatka, FL, USA</td>
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<td>Predicting Freshwater Inflow Effects on Estuarine Fishes in the St. Johns River, Florida – Steven J. Miller, Ronald E. Brockmeyer, Jr. and Wendy Tweedale; St. Johns River Water Management District, Palatka, Florida, USA</td>
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<td><strong>Session #130: Predicting the Future of Coastal Louisiana I: Effects of Tides and Storms (Part 1 of 2)</strong></td>
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<td>[Curacao 3 &amp; 4]</td>
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<td>Moderator: Denise Reed, University of New Orleans, New Orleans, LA, USA</td>
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<td>Eco-Hydrology Modeling in Coastal Louisiana to Assess Project Effects on the Landscape – Ehab Meselhe1, John A. McCrorquodale2, Jeff Shelden2, Mark Dortch2, Stokka Brown2, Mallory Davis2, Wang Zhanxian2, Peter Elkan2 and Jennifer Schindler2; 1University of Louisiana at Lafayette, Lafayette, LA, USA, 2University of New Orleans, New Orleans, LA, USA, 3Moffatt and Nichol, Raleigh, NC, USA, 4C.H. Fenstermaker &amp; Associates, Lafayette, LA, USA</td>
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<td>2:00</td>
<td>Short-Term Modeling of Coastal Response to Wave Climate and Relative Sea Level Rise – Loannis Georgiou1, Zoe Hughes2, Dallon Weathers2, Mark Kulp and Duncan FitzGerald2; 1Dept. of Earth and Environmental Sciences, and Pontchartrain Institute for Environmental Sciences, University of New Orleans, New Orleans LA, USA, 2Dept. of Earth Sciences, Boston University, Boston, MA, USA</td>
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<td>2:20</td>
<td>Storm Surge and Wave Modeling for Prioritization of Louisiana Coastal Restoration and Protection Projects – Hugh J. Roberts1, Zach Cobell1 and F. Ryan Clark1; 1ARCADIS, Boulder, CO, USA</td>
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<td>2:40</td>
<td>Applying the Coastal Louisiana Risk Assessment Model to Assess Long-Term Benefits from Flood Risk Reduction Projects – Jordan R. Fischbach1, David R. Johnson3 and David S. Ortiz2; 1Rand Corporation, Pittsburgh, PA, USA, 2Pardee Rand Graduate School, Santa Monica, CA, USA</td>
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<td><strong>Session #131: Wetland Ecosystem Services in a Complex and Changing World (Part 1 of 2)</strong></td>
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<td>Moderator: Edward Malty, LSU &amp; Univ. of Liverpool, UK, Baton Rouge, LA, USA</td>
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<td>Bringing Together Science and Policy to Protect and Enhance Wetland Ecosystem Services in Agricultural Landscapes: Results of the OECD Workshop – Richard Lowrance, USDA-ARS, Tifton, GA, USA; 1EcoHydron, Inc., Corpus Christi, Corpus Christi, Texas USA</td>
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<td>2:00</td>
<td>Ecosystem Services of European Wetlands – Overview of Current Situation and Future Perspectives – Tomasz Okruszko1, Harm Duel2, Mike Acreman3, Mateusz Grygoruk4, Martina Flörke5 and Christof Schneider6; 1Division of Hydrology and Water Resources, Warsaw University of Life Sciences, Poland, 2Deltas, Utrecht, The Netherlands, 3Centre for Ecology and Hydrology, Crowmarsh Gifford, Wallingford, UK, 4Center for Environmental Systems Research, University of Kassel, Germany</td>
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<td>2:20</td>
<td>Wetland Ecosystem Services – Findings from UK National Ecosystem Assessment and Relevance to US – Edward Malty, Louisiana State University, Baton Rouge, LA, USA</td>
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<td>The Challenge of Steady State Coastal Law in the Time of Rising Oceans – Edward P. Richards, Louisiana State University Law Center, Baton Rouge, LA, USA</td>
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<td><strong>Session #132: Urban Wetlands</strong></td>
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<td>Moderator: Daniel Childers, Arizona State University, Tempe, AZ, USA</td>
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<td>Microbial Processes in Constructed Tidal Wetlands for Removal of Nitrogen from Urban Wastewaters – Aaron L. Mills1, Eric Lohan1,2, Joseph Battistelli1 and Kristina Reid-Black1; 1University of Virginia, Charlottesville, VA, USA, 2Living Machine Systems, LLC, Charlottesville, VA, USA</td>
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<td>2:00</td>
<td>Contrasting Urban and Natural Wetlands in South-Central New York – Rebecca L. Heinztman, Megan A. Larson, John E. Titus and Weixing Zhu; SUNY Binghamton, Binghamton, NY, USA</td>
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<td>Bank On It: Mitigation and the Restoration of Ecosystem Services to Urbanizing Watersheds - Ann M. Redmond; Brown and Caldwell, Baton Rouge, LA, USA</td>
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<td><strong>Session #133: Blue Carbon Projects (Part 4 of 4)</strong></td>
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<td>[Grand Sierra Ballroom B]</td>
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<td>Moderator: Pat Megonigal, Smithsonian Environmental Research Center, Edgewater, MD, USA</td>
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<td>Carbon Crediting for Tidal Marshes: Projects in Maryland -- Brian A. Needelman and J. Patrick Meconigal</td>
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<td>United States Geological Survey, Maryland Water Science Center, Edgewater, MD, USA,</td>
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<td>United States Geological Survey, College Park, MD, USA,</td>
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<td><strong>Session #134: Dynamic of Coastal Wetlands</strong></td>
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<td>[Grand Sierra Ballroom C]</td>
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<td>Moderator: Robert Daoust, ARCADIS US, Plantation, FL, USA</td>
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<td>4:00</td>
<td>Restoration of the Everglades’ Saline Wetlands and Florida Bay: Responses Driven from Land and Sea -- David Rudnick</td>
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<td>Colin Saunders,</td>
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<td>Erik Stabenau,</td>
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<td>Vic Engel and Rene Price</td>
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<td>South Florida Natural Resources Center, Everglades National Park, Homestead, FL, USA,</td>
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<td>Everglades Systems Assessment Section, South Florida Water Management District, West Palm Beach, FL, USA,</td>
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<td>Dept. of Earth and Environment, Florida International University, Miami, FL, USA,</td>
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<td>4:20</td>
<td>Why are Mangroves Expanding into Saltmarshes in Eastern Australia? -- Leila Elsami-Andargoli and Pat ER Dale</td>
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<td>Environmental Futures Centre, Griffith School of Environment, Griffith University, Nathan, Queensland, Australia</td>
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<td>4:40</td>
<td>Seagrasses in Variable Environments: The Importance of Life History in Controlling Ruppia maritima at the Everglades-Florida Bay Ecotone – Theresa Strazisar</td>
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<td>Marguerite S. Koch, Elizabeth Dutra and Christopher J. Madden</td>
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<td>Aquatic Plant Ecology Laboratory, Biological Sciences Department, Florida Atlantic University, Boca Raton, Florida, USA,</td>
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<td>South Florida Water Management District, Everglades Division, West Palm Beach, Florida, USA,</td>
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<td><strong>Session #135: Ecosystem Restoration Program Management and Large-Scale Project Implementation (Non-GEER)</strong></td>
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<td>Moderator: Tom St. Clair, Atkins, Jacksonville, FL, USA</td>
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<td>Comparison of Everglades Restoration with Other Large-Scale Ecosystem Restoration Programs in the United States -- Tom St. Clair, Eliza Blue Hines and Rebecca Burns; Atkins</td>
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<td>North America Inc., Jacksonville, FL, USA,</td>
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<td>4:00</td>
<td>Restoration of Significant Wetlands in Interior New South Wales: Co-Ordinating Science, On-Ground Works and Water Delivery -- Neil Sainthilam</td>
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<td>Office of Environment and Heritage, NSW Department of Premier and Cabinet, Sydney South NSW, Australia</td>
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<td>Large-Scale Search for Tidal Mitigation Sites on the Elizabeth River, Virginia -- Mark McElroy</td>
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<td>ARCADIS-US, Inc. Newport News, VA, USA</td>
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<td>4:40</td>
<td>Engineering-Oriented Plantation and Mechanical Harvesting of Aquatic Plants in Water Body Restoration Engineering -- Fuxing Zou and Jianping Li; Biosystem Engineering and Food Science School, Zhejiang University, Hangzhou, China</td>
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<td><strong>Session #136: The Role of Flow and Hydrologic Connectivity in Floodplain and Wetlands Ecosystems (Part 3 of 3)</strong></td>
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<td>Moderator: Lauren Larsen, U.S. Geological Survey, Reston, VA, USA</td>
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<td>A Physical Model of Flow Reconnection to Achieve Ecological Restoration in the Everglades -- Katherine Skalak and Vic Engel; Jud Harvey; David T. Ho, Laurel Larsen; Sue Newman, Colin Saunders, Fred Sklar and Joel Trexler</td>
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<td>Resolving Kilometer-scale Flow Patterns in the Everglades Using SF, Tracer Release Experiments: Implications for Habitat Restoration -- David T. Ho, Sara Ferron, Victor C. Engel and Evan A. Variano; University of Hawaii, Honolulu, HI, USA,</td>
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<td>Transport Across the Air-Water Interface with Emergent Vegetation -- Evan A. Variano and Cristina M. Poindexter; University of California, Berkeley, CA, USA</td>
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<td>4:40</td>
<td>Revisions to the Everglades Depth Estimation Network (EDEN) Surface-water Model -- Pamela A. Teils and Zhixiao Xie; U.S. Geological Survey, Jacksonville, FL, USA,</td>
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<td>Session</td>
<td>Thursday, June 7, 2012</td>
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<td>137</td>
<td><strong>Session #137: Emerging Contaminants</strong> [Bonaire 1 &amp; 2]</td>
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<td>Moderator: Chris Warn, Weston Solutions Inc, Sarasota, FL, USA</td>
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<td>3:30 Session Overview</td>
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<td>3:40 Enhanced Constructed Wetland Technologies for Controlling and Remediating Water Eutrophication -- Xiao-E Yang¹, Zhen-Li He², Ying Feng³, Wen-Cheng Wang⁴ and Peter J Stoffella⁵</td>
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<td>¹Ministry of Education Key Laboratory of Environmental Remediation and Ecological Health, Zhejiang University, Zhejiang Campus, Hangzhou, China, ²Ningbo Drinking Water Source Group Ltd., Ningbo, China, ³University of Florida, IFAS, Indian River Research and Education Center, Fort Pierce, FL, USA</td>
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<td>4:00 Polycyclic Aromatic Hydrocarbon (PAH) Contamination in the Caroni Swamp, Trinidad, West Indies -- La Daana Kada Kanhai¹, Judith Gobin¹, Azad Mohammed¹ and Denise M. Beckles², ¹Department of Life Sciences, University of the West Indies, St. Augustine, Trinidad and Tobago, ²Department of Chemistry, University of the West Indies, St. Augustine, Trinidad and Tobago</td>
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<td>4:20 Removal of Pharmaceutical Compounds by Constructed Wetlands Under Different Redox Conditions -- A. F. Hamadeh³, Piet Lens⁴ and G. Amy⁵, ¹WDRC/ King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia, ²UNESCO-IHE Institute for Water Education, Delft, The Netherlands</td>
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<td>4:40 Pharmaceutical Removal in Tropical Subsurface Flow Constructed Wetlands -- Dong Qing Zhang⁶, Soon Keat Tan⁷, Richard M. Gersberg⁸, Tao Hua⁹, Junfei Zhu¹⁰ and Nguyen Anh Tuan¹¹, ¹¹DH-NTU Centre, Nanyang Environment &amp; Water Research Institute, Nanyang Technological University (NTU), Singapore, ²School of Civil and Environmental Engineering, NTU, Singapore, ³Graduate School of Public Health, San Diego State University, USA</td>
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<td>138</td>
<td><strong>Session #138: Methane Dynamics in Peatland Ecosystems (Part 2 of 2)</strong> [Bonaire 3 &amp; 4]</td>
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<td>Moderators: Jason Keller, Chapman University, Orange, CA, USA and Scott Bridgham, University of Oregon, Eugene, OR, USA</td>
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<td>3:30 Session Overview</td>
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<td>3:40 An Isotope Mass Balance Approach to Distinguishing Sources of CO₂ Production in Northern Minnesota Peatlands -- J. Elizabeth Corbett¹, Jeffrey P. Chanton¹, Malak M. Tafiy², William T. Cooper³, David J. Burdige⁴ and Paul H. Glaser⁵, ¹Earth, Ocean, and Atmospheric Science, Florida State University, Tallahassee, FL, USA, ²Chemistry and Biochemistry, Florida State University, Tallahassee, FL, USA, ³Ocean, Earth and Atmospheric Sciences, Old Dominion University, Norfolk, VA, USA, ⁴Earth Sciences, University of Minnesota, Pillsbury Hall, Minneapolis, MN, USA</td>
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<td>4:00 The Role of Microbial Diversity and Traits in Methane Cycling in Wetlands -- Paul E. Bodelier, Netherlands Institute of Ecology (NIOO-KNAW), Wageninge, the Netherlands</td>
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<td>4:20 Anaerobic Oxidation of Methane in Northern Peatlands -- Varun Gupta¹, Kurt A. Smemo²,³, Joseph B. Yavitt³, Brian Branfireun³, David Fowlie⁴ and Nathan Basiliko⁵, ¹University of Toronto Mississauga, Mississauga, ON, Canada, ²The Holdren Arboretum, Kirtland, OH, USA, ³Kent State University, Kent, OH, USA, ⁴Cornell University, Ithaca, NY, USA, ⁵University of Western Ontario, London, ON, Canada, ⁶University of Kansas, Lawrence, KS, USA</td>
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<td>4:40 Effects of Permafrost Thaw on Northern Peatland Methane Emissions -- M. R. Turetsky, Department of Integrative Biology, University of Guelph, Guelph, ON, Canada</td>
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<td>139</td>
<td><strong>Session #139: Salinization of Freshwater Wetlands (Part 3 of 3)</strong> [Bonaire 5 &amp; 6]</td>
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<td>Moderator: Scott Neubauer, University of South Carolina, Georgetown, SC, USA</td>
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<td>3:30 Session Overview</td>
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<td>3:40 Response of Tidal Freshwater Marsh Plant and Microbial Communities in the Delaware River Estuary to Sea-Level Rise and Salt-Water Intrusion -- Nathaniel B. Weston, Villanova University, Villanova, PA, USA</td>
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<td>4:00 Plant Chemistry in a Freshwater Wetland Experiencing Salt Water Intrusion -- K. N. Hopfensperger¹, C. Kowal¹ and A. J. Burgin¹, ¹Northern Kentucky University, Highland Heights, KY, USA, ²University of Nebraska-Lincoln, Lincoln, NE, USA</td>
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<td>4:20 Salinization of Melaleuca-dominated Wetlands of the Gippsland Lakes, Australia -- Paul I Boon, Institute for Sustainability &amp; Innovation, Victoria University, , Melbourne, Victoria, Australia</td>
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<td>4:40 Impacts of Short-term Salinity Intrusion and Post-intrusion Conditions on Oligohaline Wetland Vegetation and Soils -- Whitney M. Kiehn and Irving A. Mendelsohn, Louisiana State University, Baton Rouge, LA, USA</td>
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<td>140</td>
<td><strong>Session #140: Restoration, Mitigation &amp; Policy</strong> [Bonaire 7 &amp; 8]</td>
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<td>Moderator: Patrick Hunt, USDA-ARS, Florence, SC, USA</td>
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<td>3:30 Session Overview</td>
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<td>3:40 Integration of Habitat Heterogeneity and Cost-Effective Restoration Techniques and Strategies into Innovative Large-Scale Wetlands Restoration Efforts in South Florida Urban Areas -- Gary R. Milano, Miami-Dade County, Miami, FL, USA</td>
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<td>4:00 Indiana Toll Road Mitigation, Urban Restoration in Gary, Indiana - - Greg Quarucci, Cardno JFNew, Monee, IL USA</td>
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<td>4:20 Seagrass Restoration and Mitigation: Policy Change Recommendations -- Althea S. Hotaling, R. Benjamin Lingle and Thomas T. Ankerson; University of Florida, Gainesville, FL USA</td>
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| **Session #141:** The Hydroecology of Rivers and the Potential Ecological Effects of Human Water Use  
[Curacao 1 & 2]  
Moderator: Edgar Lowe, St. Johns River Water Management District, Palatka, FL, USA  
3:30  Session Overview  
4:00  Diverted Mississippi River Sediment as a Potential Phosphorus Source to Louisiana Coastal Systems -- John R. White, Wei Zhang and Ronald D. DeLaune; Louisiana State University, Baton Rouge, LA, USA, Chinese Academy of Sciences, Chengdu, Sichuan, China  
4:20  Water-Quality Mapping and Monitoring Efforts in the Tidal Caloosahatchee River and Downstream Estuaries -- Amanda C. Booth and Eduardo Patino; U.S. Geological Survey, Fort Myers, FL, USA  
4:40  Nutrient Dynamics at the Estuarine Sediment-Water Interface during Large Pulses of High Nitrate Mississippi River Water -- E. D. Roy and J. R. White; Wetland & Aquatic Biogeochemistry Lab, Department of Oceanography & Coastal Sciences, School of the Coast & Environment, Baton Rouge, LA, USA  
**Session #142:** Predicting the Future of Coastal Louisiana II: Biological Response (Part 2 of 2)  
[Curacao 3 & 4]  
Moderator: Carol Parsons Richards, Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA  
3:30  Session Overview  
4:00  Forecasting Vegetation Changes in Coastal Louisiana -- Jenneke M. Visser, Scott Duke-Sylvester, Jacoby Carter and Whitney Broussard; University of Louisiana at Lafayette, Lafayette, LA, USA, U.S. Geological Survey, Lafayette, LA, USA  
4:20  Predicting the Effects of Hurricane Protection and Wetland Restoration Projects on Fish and Wildlife -- J. A. Nyman, School of Renewable Natural Resources, LSU AgCenter, Baton Rouge, LA, USA  
4:40  The Future of Coastal Louisiana: Expected Outcomes of Implementing the 2012 Master Plan -- Denise J. Reed, on behalf of the 2012 Louisiana Master Plan Delivery Team; University of New Orleans, New Orleans, LA, USA  
**Session #143:** Wetland Ecosystem Services in a Complex and Changing World (Part 2 of 2)  
[Curacao 5 & 6]  
Moderator: Edward Maltby, LSU & Univ. of Liverpool, UK, Baton Rouge, LA, USA  
3:30  Session Overview  
3:40  Translating Condition Assessment Data to Ecosystem Services: Is There an App for That? -- Denice H. Wardrop, M. Siobhan Fennessy, Jessica B. Moon and Hannah M. Ingram; Penn State University, University Park, PA, USA, Kenyon College, Gambier, OH, USA  
4:00  Climate Change and Peatlands in the SE-Asian Tropics -- Hans Joosten and René Dommain; University of Greifswald, Greifswald, Germany  
4:20  Enhancing Urban Wetland Biodiversity by Reducing Trade-Offs between Multiple Ecosystem Services -- Jenny Davis, Australian Centre for Biodiversity and School of Biological Sciences, Monash University, Clayton, Victoria, Australia  
4:40  Panel Discussion  
**Session #144:** Urban Wetlands for a Sustainable Water Quality  
[Curacao 7 & 8]  
Moderator: Jos Verhoeven, Utrecht University, Utrecht, Netherlands  
3:30  Session Overview  
3:40  Application of Wetlands for Nutrient Polishing in Urban Environments -- Jan Vymazal, Czech University of Life Sciences Prague, Prague, Czech Republic  
4:00  Mitigation of Pesticides and Copper in a Stormwater Wetland Receiving Runoff from a Vineyard Catchment -- Gwenael Imfeld and ElodieMailiard, Laboratory of Hydrology and Geochemistry of Strasbourg (LHyGeS), University of Strasbourg/ENGEES, CNRS, Strasbourg Cedex, France  
4:20  Retention of Heavy Metals and Poly-Aromatic Hydrocarbons from Road Water in a Constructed Wetland and the Effect of De-Icing -- Karin Tromp, Ana T. Lima, Arjan Barendrecht and Jos T.A. Verhoeven; Institute of Environmental Biology, Utrecht University, Utrecht, The Netherlands, Hoogheemraadschap van Delfland, Delft, The Netherlands, Department of Earth and Environmental Sciences, University of Waterloo, Waterloo, Canada, Interfaculty Institute for Risk Assessment Science, Toxicology Division, Utrecht University, Utrecht, The Netherlands  
4:40  Ecosystem Services and Educational Opportunities Provided by an Aridland Urban Treatment Wetland in Phoenix AZ -- Daniel L. Childers and Laura Turnbull, School of Sustainability and Global Institute of Sustainability, Arizona State University, Tempe, AZ, USA
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| **Session #145: Wetlands in Agricultural Watersheds**  
[Grand Sierra Ballroom B]  
Moderator: Curtis Richardson, Duke University, Durham, NC, USA  
10:30 Session Overview  
10:40 Planning Wetland Restoration in Agricultural Watersheds — Francisco A. Comín, Ricardo Sorando, Alfonso Calvo, Victor Guirado and Nadia Darwiche; Instituto Pirenaico de Ecología-CSIC, Zaragoza, Spain  
11:00 Wetland Functions in the Texas Rice Belt — Dan Keezee; USDA—Natural Resources Conservation Service, Temple, Texas, USA  
11:20 Conversion of Wetlands to Row Crops in the Prairie Pothole Region — Carol A. Johnston; South Dakota State University, Brookings, SD, USA  
11:40 Water Quality Performance of Wetlands Receiving Nonpoint Source Loads — William G. Crumpton; Iowa State University, Ames, IA, USA | **Session #146: Role of the Lower Mississippi River for Sustainable Ecosystem Restoration in Coastal Louisiana**  
[Grand Sierra Ballroom C]  
Moderator: Richard Raynie, Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA  
10:30 Session Overview  
10:40 The Mississippi River Commission — History of the Management of the Mississippi River — Travis Creel and Timothy Axtman; U.S. Army Corps of Engineers, New Orleans, LA, USA  
11:00 Sediment Management for Coastal Restoration in Louisiana — Roles of Mississippi & Atchafalaya Rivers — Syed Khalil; Coastal Protection and Restoration Authority, Baton Rouge, LA, USA  
11:20 The Louisiana Coastal Area, Mississippi River Hydrodynamic and Delta Management (MRHDM) Study — Cherie Price and Brian Vosburg; U.S. Army Corps of Engineers, New Orleans, LA, USA  
11:40 State of the Science for Multipurpose Use of the Lower Mississippi River to Achieve Sustainability — Richard C. Raynie; Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, Louisiana, USA | **Session #147: Ecosystem Restoration Output — Moving Beyond Habitat Units**  
[Antigua 1 & 2]  
Moderator: Brian Files, Parsons, Jacksonville, FL, USA  
10:30 Session Overview  
10:40 Predicting Wetland Functions at the Landscape Level for Coastal Georgia — Jan Mackinnon, Ralph Tiner and John Hefner; Georgia Department of Natural Resources, Brunswick, GA, USA, U.S. Fish and Wildlife Service, Hadley, MA, USA, Atkins North America, Inc., Raleigh, NC, USA  
11:00 Coastal Ecosystem Services and Sea Level Rise in Florida: Understanding Public Perceptions and Values — Laila A. Racevskis; University of Florida, Gainesville, FL, USA  
11:20 Habitat Evaluation Scoring Method to Estimate Ecosystem Service Improvements from Restoration — Timothy Barber, Jennifer Lawton Lyndall and Wendy Mahaney; ENVIRON International Corporation, Burton, OH, USA  
11:40 An Evaluation of Coastal Restoration Projects in Louisiana for Nutrient Credit Trading in the Lower Mississippi River Basin — Guerry Holm, Jr., Ruth Rouse, Lisa Bacon, Brian Perez, Jim Bays, Charles Killebrew and Jennifer Mouton; CH2M HILL, Baton Rouge, LA, USA, CH2M HILL, Raleigh, NC, USA, CH2M HILL, Albuquerque, NM, USA, CH2M HILL, Tampa, FL, USA, Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA | **Session #148: Climate Change Effects on Coastal Wetlands**  
[Antigua 3 & 4]  
Moderator: Ilka Feller, Smithsonian Institution, Edgewater, MD, USA and Matthew Kimball, LSU, Lafayette, LA, USA  
10:30 Session Overview  
10:40 The Salt Marsh-Mangrove Ecotone and Vulnerability of Subtropical Coastlines to Sea-Level Rise — Karen L. McKee and William C. Verwee; U.S. Geological Survey, Lafayette, Louisiana, USA  
11:00 Water Table Dynamics of Hydric Soils in the Lower Coastal Plain of South Carolina — Devendra M Amatya and Carl C Trettin; USDA Forest Service, Cordesville, SC, USA  
11:20 Competition versus Facilitation: Testing Multiple Stress Gradient Effects on Salt Marsh and Mangrove Interactions — Glenn A. Coldren, C. Edward Proffitt, Donna J. Devlin and Kathryn A. Tiling; Florida Atlantic University at Harbor Branch Oceanographic Institute, Fort Pierce, FL, USA  
9th INTECOL: International Wetlands Conference

Friday, June 8, 2012 | 10:30am – 12:00pm

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| **Session #149: Ecological Risk Assessment: Lessons Learned and Future Directions**  
[Bonaire 1 & 2]  
Moderator: Chris Wilson, Soil and Water Science Department, Fort Pierce, FL, USA  
10:30 Session Overview  
10:40 Seasonal Carbon and Energy Fluxes for Restored Wetlands in the Sacramento – San Joaquin Delta, California, USA -- Frank E. Anderson¹, Brian Bergamaschi¹, Lisamarie Windham-Myers² and Roger Fuji³;  
¹U.S. Geological Survey, Sacramento, CA, USA, ²U.S. Geological Survey, CA, USA  
11:00 Do Tidal Salt Marshes Release Greenhouse Gases during the Spring Thaw? -- Gail L. Chmura¹ and Lisa Kellman¹;  
¹Department of Geography and Global Environmental and Climate Change Centre, McGill University, Montreal QC, Canada, ²Environmental Sciences Research Centre, St. Francis Xavier University, Antigonish, NS, Canada  
11:20 Predicting Impacts of Development and Land Use Change upon Complex Wetland Systems in Largely Undeveloped Catchments in Northern Australia -- Damien Burrows, Colton Perna and Barry Butler; TropWATER, James Cook University, Townsville, Qld, Australia  
11:40 Retention Potential of an Offline Pond-Wetland Combined System on River Water’s PAHs through Superficial Sedimentation - - Weidong Wang¹, Jun Zheng¹,² and Chengqing Yin¹;  
¹State Key Laboratory of Environmental Aquatic Chemistry, Research Center for Eco-Environmental Sciences, the Chinese Academy of Sciences, Beijing, China, ²Graduate School of the Chinese Academy of Sciences, Beijing, China  | **Session #150: Greenhouse Gas Fluorescence**  
[Bonaire 3 & 4]  
Moderator: Jackie Batson, U.S. Geological Survey, Reston, VA, USA  
10:30 Session Overview  
10:40 Causes of Methanogenesis-Linked Climate Feedbacks in a Discontinuous Permafrost Peatland -- Jeffrey P. Chanton¹, Suzanne B. Hodgkins¹, Patrick M. Crill², Carmody K. McCalley³, Scott R. Saleska¹ and Virginia Rich¹;  
¹Florida State University, Tallahassee, FL, USA, ²Stockholm University, Stockholm, Sweden, ³University of Arizona, Tucson, AZ, USA  
11:40 Greenhouse Gas Fluxes from Natural and Restored Wetlands in the Agricultural Midwest -- Brianna L. Richards, Christopher B. Craft; Indiana University, Bloomington, IN, USA  | **Session #151: Phosphorus Removal Performance and Sustainability of Florida’s Large-Scale Surface Flow Treatment Wetlands**  
[Bonaire 5 & 6]  
Moderator: Forrest Dierberg, DB Environmental, Inc., Rockledge, FL, USA  
10:30 Session Overview  
11:40 The Orlando Easterly Wetlands: Sediment Accumulation Management Strategies for Prolonging Phosphorus Removal -- M. D. Sees; City of Orlando, Christmas, FL, USA  | **Session #152: Wildlife in Greater Everglades and Coastal Ecosystems**  
[Bonaire 7 & 8]  
Moderator: Kenneth Rice, USGS, Gainesville, FL, USA  
10:30 Session Overview  
10:40 Forecasting Climate Change Effects on Threatened and Endangered Species in the Greater Everglades Ecosystem -- James Watling¹, Laura Brandt¹, Alison Benscoter¹, David Bucklin¹, Carolina Cabal², Frank Mazzotti³ and Stephanie Romaluff³;  
¹University of Florida, Fort Lauderdale, FL, USA, ²U.S. Fish and Wildlife Service, Fort Lauderdale, FL, USA, ³U.S. Geological Survey, Southeast Ecological Science Center, Davie, FL, USA  
11:00 Genetic Evidence for West to East Movement by Florida Manatees Through a South Florida Migration Corridor -- Margaret E. Hunter¹, Kimberly Pause Tucker² and Robert K. Bonde³;  
¹Southeast Ecological Science Center, U.S. Geological Survey, Gainesville, FL, USA, ²Department of Mathematics and Natural Sciences, College of Coastal Georgia, Brunswick, GA, USA  
11:20 Wading Bird Foraging Trade-Offs in Response to the Production and Concentration of Prey -- James M. Beerens¹, Erik G. Noorburg², Dale E. Gawlik¹ and Douglas D. Donelson³;  
¹Florida Atlantic University, Boca Raton, FL, USA, ²US Army Corps of Engineers, Jacksonville, FL, USA
### Friday, June 8, 2012 | 10:30am – 12:00pm

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<th>Session #153: Hydrology [Curacao 1 &amp; 2]</th>
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<td>10:30 Session Overview</td>
<td>Moderator: Steve Rockwood, Florida Fish and Wildlife Conservation Commission, Fellsmere, FL, USA</td>
<td>Moderator: Heather Henkel, USGS, St. Petersburg, FL, USA</td>
<td>Moderator: Dave Rudnick, Everglades National Park, Homestead, FL, USA</td>
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<td>11:00 Ecological Water Requirements Based on Water Level Simulation in the Yellow River Delta – Yanyan Hua and Baoshan Cui; School of Environment, Beijing Normal University, State Key Joint Laboratory of Environmental Simulation and Pollution Control, Beijing, China</td>
<td>11:00 Florida Fish and Wildlife Conservation Commission, Tallahassee, FL, USA</td>
<td>11:00 Wetland Gems of America – William M. Morgante; RK &amp; K, Baltimore, MD, USA</td>
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<td>11:40 Fighting on Arrival and Fighting for Survival: A Delphi Study on the Threats and Resilience of Mangroves – Nibedita Mukherjee, Farid Dahdouh-Guebas and Nico Koedam; Université Libre de Bruxelles, Brussels, Belgium, Vrije Universiteit Brussel, Brussels, Belgium</td>
<td>11:40 Management of Non-Point Sources of Pollution – BJ Jarvis; Pasco Cooperative Extension Service, University of Florida/IFAS, Dade City, Florida, USA</td>
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June 3-8, 2012 | Orlando, Florida, USA

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9th INTECOL: International Wetlands Conference

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Directory of Services – Caribe Royal

House telephones are located throughout the hotel and conference center. Use this directory to contact hotel staff for more information about hotel services and for assistance with other needs.

**Attractions**
Information, directions, tickets and brochures are available at the Guest Services Desk, in the main lobby, Reception Building/Upper Level. **Touch 8010**

**Automatic Teller Machine**
Available for cash withdrawals, Reception Building/Upper Level, at main entrance and in the Convention Center across from the Hibiscus Room. **Touch 0**

**Babysitting**
Please call our Guest Services Desk in advance for arrangements. **Touch 8010**

**Basketball**
Lighted court located west of Tower I. Basketballs are available in the Fitness Center. **Touch 8075**

**Bell Stand**
Arrival and departure assistance available. **Touch 4903**

**Business Center**
24-Hr. Automated Center in the Reception Building/Upper Level. Computer, copier, facsimile, shipping services, secretarial services and office supplies available in the full service center in the Grand Caribe Convention Center. **Touch 8436**

**Car Rental**
Rental cars are available at our desk on the Upper Level of the Reception Building, adjacent to the Game Room. **Touch 8090**

**Checkout Time is 11:00 a.m.**

**Church Services**
Contact our Guest Services desk for information on area services. **Touch 8010**

**Cribs**
We are happy to provide baby cribs at no charge to our guests. Please contact the Hotel Operator. **Touch 0**

**Currency Exchange**
Available at the Guest Services Desk in the Reception Building/Upper Level. **Touch 8010**

**The Cyber Zone**
Internet cafe located at the base of the grand staircase in the Reception Building/Upper Level. **Touch 0**

**Emergencies**
Your safety and security are of prime concern to us. In the event of an emergency please contact the Hotel Operator immediately. **Touch 0**

**Express Check-Out**
This feature is available through in-room telephone. Please check with the front desk for details. **Touch 0**

**Fire Protection**
*Please familiarize yourself with the Evacuation Plan mounted on the back of your suites’ entrance door.* This will identify your nearest exit, in case of emergency. **Touch 0**

**Fitness Center**
State-of-the-Art Facility Located between Towers I & II. **Touch 8075**

**Front Desk**
Located in the Reception Building/Upper Level. **Touch 0**

**Game Room**
There are Video Arcades for adults and children of all ages. Located in the Reception Building/Upper Level and pool area. **Touch 0**

**Gift Shop**
Gifts, clothing, newspapers, tobacco and convenience items available. Located in the main lobby. Reception Building/Upper Level. **Touch 8058**

**Golf**
Contact our Guest Services Desk for information on area courses and tee times. **Touch 8010**
Guest Services Desk
General information, tickets and transportation, scheduled complimentary shuttles to Magic Kingdom, EPCOT, Hollywood Studios, Animal Kingdom and evening shuttle to the Downtown Disney area; each departure has limited seating. Schedules are revised seasonally. Guest Services desks located in the main lobby and in the lobbies of Towers I, II & III............. Touch 8010

Housekeeping
For assistance or special requests, please dial the Hotel Operator.
Turnout service available upon request.................................Touch 0

Ice
Located on every floor of Towers I, II & III ..................................Touch 0

Laundry & Valet Service
Same day dry cleaning and laundry service is available Monday through Friday, excluding holidays. Laundry bags and slips are conveniently located in the closet of your bedroom. Clothes should be dropped off at the bell stand by 8:00 am and will be returned by 7:00 pm.................................Touch 4903

Laundry Facilities for Guests
Laundry rooms with coin operated washers and dryers are located in Towers I, II & III on floors 3, 6 & 9. Soap dispensing machines in each laundry room. Change available at guest services desk in tower lobbies.........Touch 0

Lost & Found
Contact the security department through the Hotel Operator for misplaced or lost items.................................................................Touch 0

Lounges
* Parrot Isle Lounge - located in the Reception Building/Upper Level...........Touch 4901
* Calypso’s Bar & Grille - located in the pool area, close to Tower III..........Touch 5910
* The Falls Lounge - located in the Reception Building/Lower Level ............Touch 8060

Manager on Duty
Assistance is available 24 hours a day...Touch 0

Massage Services
The Island Spa, located in Tower III, offers nail, massage and complete body treatments..................................Touch 1200

Medical Assistance
Should a medical problem arise, please contact our Security Department through the Hotel Operator. We can provide first aid services for minor ailments. The front desk also has information on local clinics, hospitals and doctors/house call services.................Touch 0

Pharmacist
Contact the Guest Services Desk for area pharmacies and drugstores.........Touch 8010

Pool/Courtyard Area
Our extensive pool/courtyard area features a giant free form heated pool with cascading waterfall, 75 foot slide, two whirlpool spas, children’s pool with built-in interactive toys and children’s playground. Complimentary towels available. Courtyard also features Calypso’s Bar & Grille. An additional pool is available for guests staying in Villas (Towers IV-VII).................................Touch 0

Reservations
For future reservations at the Caribe Royale ..................................Touch 8444

Restaurants
The following restaurants are available for your enjoyment:
* The Tropicale - Casual dining for breakfast, lunch or dinner .........................Touch 8020
* The Venetian Room (AAA 4 Diamond Rated) - Fine Dining......................Touch 8060
* Cafe Largo Pizzeria & Deli (open 24 hours)
  - Reception Building/
    Lower Level..........................Touch 5903
* Calypso’s Bar & Grille
  - pool area..........................Touch 5910
* Java’s Coffee Café - Tower II.......Touch 2170

Room Service
(24 Hours a Day)..........................Touch 5900

Safe
For your convenience a complimentary electronic safe is located in the closet of your bedroom............................................Touch 0
Security
A security door slide, deadbolt and door viewer are provided for your safety. Do not allow anyone into your suite or villa without being properly identified. All resort employees wear name badges. Please call the Front Desk to confirm, prior to admitting a hotel representative into your suite or villa. Our security department is available 24 hours a day through the Hotel Operator.................Touch 0

Shipping Services
Overnight express services, shipping and receiving services are available through our business center..................................Touch 8436

Shopping
Contact the Guest Services Desk for information on area shopping centers, malls and transportation to shopping venues ...........................................Touch 8010

Shuttle to Attractions
Complimentary scheduled shuttle to Magic Kingdom, EPCOT, Hollywood Studios, Animal Kingdom and complimentary evening shuttle to the Downtown Disney area; limited seating available. Schedule is revised seasonally. Shuttles are first come, first served basis. Shuttles to all other attractions at a charge – inquire with Guest Services Desk .... Touch 8010

Telephone Service
Use of telephone for in-house calls is unrestricted. To make calls outside the hotel, we ask that you establish credit with the Front Desk. A charge of $.75 plus tax will be added to your account for each local call. An additional $.10 plus tax per minute charge will be added to all local and toll-free (800/888/877/866) calls exceeding 30 minutes. A surcharge of 40% and all applicable taxes will be added to long distance calls. A charge of $2.00 plus tax will be added to your account for each 411 and 555 directory assistance call. Customer Service 1-800-243-1288, P.O.Box 723, Basking Ridge, NJ 07920. You may reach the carrier of your choice by dialing the access code of that carrier .........................................................Touch 0

Tennis Court
Lighted court located west of Tower I. Racquets and tennis balls are available in the Fitness Center.................................................Touch 8075

Television
We are pleased to offer complimentary cable television in a high definition format. Please refer to the Channel Selection Guide on Channel 1 on the T.V.........................Touch 0

Transportation
Please inquire with our Guest Services Desk located in the main lobby, regarding taxis and shuttles...........................................Touch 8010

Vending
Ice, soft drink and snack/juice machines in Towers I, II & III. Soft drink machines on first floor of Villas IV-VII.................................Touch 0

Wake Up Calls
Please follow the directions in your suite or contact the Hotel Operator .................Touch 0
Safety and Security

Your safety and the security of your personal property are of the utmost concern to those of us who welcome you as our guest. We urge you to take advantage of the following suggestions:

- Do not admit persons to your suite without first verifying identification. If there is any doubt about the person’s true identity, please touch “0” for Hotel Operator.
- Don’t leave door ajar while visiting ice or vending machines.
- For additional security, utilize deadbolt and security latch provided on the inside of your door.
- Please familiarize yourself with the location of the nearest fire exit stairway. In the unlikely event of a fire, please move quickly but calmly to the stairs. Report fire or smoke to the Hotel Operator.
- Keep your jewelry, cash and valuables in your suite safe located in the master bedroom closet.
- Do not leave luggage or personal property unattended.
- Always park in well-lighted areas, and remember to lock your car.
- If you see any suspicious person or activity, notify hotel management.
- Please use your suite key to access our outer doors during the evening hours.
- During your stay, you may receive various flyers from local pizza establishments. Our management and staff make every effort to minimize this intrusion upon your stay.

HOTEL RESTAURANTS

The Tropicale – located in the Reception Building on the lower level offers casual dining for breakfast, lunch and dinner. Offering exquisite Continental cuisine, this AAA Four-Diamond rated restaurant is ideal for a romantic or business dinner. Elegant lighting and award-winning service provide a memorable dining experience.

The Venetian Room – located on the lower level of the Reception Building. Reservations are recommended. Jackets for gentlemen are suggested.

The Parrot Isle Lounge – a quaint rendezvous spot at the Caribe Royale with a view of the pool area waterfall. In the Parrot Isle you can enjoy your favorite beverage, savor quiet conversation with friends and other guests, or just relax after a long day. The Parrot Isle Lounge is located just off the Main Lobby on the upper level near the Front Desk.

For convenient, 24 hour dining, choose Cafe Largo. Pizza, Rotisserie Chicken, Deli Sandwiches, Cool Salads, Breakfast Pastries and a variety of unique dishes are the fare à la carte, 7 days a week. Cafe Largo is located in the Reception Building on the lower level near The Tropicale.
**DINING / ENTERTAINMENT / HOTEL ACTIVITIES**

*Calypso’s* is located poolside across from the waterfalls. Calypso’s delicious aromas will tempt your taste buds as tropical music and the rhythmic splash from the waterfalls gently surround you. This poolside oasis of cool beverages and tasty grill items is refreshing during a day in the sun by the pool. Enjoy breathtaking views of our cascading waterfalls while relaxing and mingling with friends. Located on the lower level in the Reception Building. Serving fresh brewed coffee, specialty coffee drinks, hand-dipped ice cream, sundries, and freshly baked cookies and muffins. Located in Tower II, poolside lobby level. Days of operation vary. Touch #2170

**Located just steps away, our sister hotel offers additional dining options.** Enjoy the finest steaks, chops, pastas and salads at the *Vista Bistro* – a Great Steakhouse, open for lunch or dinner. Stop by *Bambooz at the Bistro* and enjoy a variety of cocktails and light appetizers in the evening. Enjoy indoor or outdoor patio seating while mingling with friends or watching sports on the widescreen, flat-panel television.

**Area Attractions & Shopping**

*Aquatica*: SeaWorld’s newest water park. 407-351-3600

*Arabian Nights*: Dinner Theatre featuring Walter Farley’s Black Stallion, the internationally famous Lippizans performing “airs above ground,” and more! 407-239-9223

*Busch Gardens*: A 300-acre African theme amusement park with free roaming animals, elephant rides, dolphin show, rides, arcades and a reproduction of Moroccan streets with a shopping bazaar. 1-813-987-5082

*Discovery Cove*: Swim with dolphins. Snorkel through coral reef and glide among stingrays without going into the ocean. Located across from SeaWorld. 1-877-434-7268

*Disney/Animal Kingdom*: Take a magical journey through a world of animals both real & fantastic. 407-824-4321

*Disney/EPCOT*: Walt Disney World’s showcase of technology and foreign cultures featuring Future World and World Showcase. 407-824-4321

*Disney/Hollywood Studios*: See movie and TV productions, Hollywood Boulevard and take thrilling adventure Movie rides. 407-824-4321

*Disney/Magic Kingdom*: Features Main Street U.S.A., Liberty Square, Adventureland, Frontierland, Fantasyland and Tomorrowland. 407-824-4321

*Downtown Disney*: A big city playground with the best fun from the best cities on the planet. Experience cutting-edge dining, outrageous clubs and a bustling shoppers playground. 407-824-4321

*Gatorland*: View thousands of alligators and crocodiles in 35 acres of natural habitat. Feed alligators, flamingos, monkeys, sheep, deer, zebras and other wild animals. Also see the “Gator Jumparoo Show.” 407-855-5496

*Hard Rock Cafe*: Featuring Rock’n Roll memorabilia and signature merchandise with an all-American menu. 407-351-7625

*Islands of Adventure*: Experience unexpected adventure and thrills through 5 Islands at this exciting Universal theme park. 407-363-8000
Lake Buena Vista Factory Stores: Featuring superb outlet shopping plus dining options. Complimentary shuttle service available. Check the Bellstand for schedule. Shuttles are first come, first served basis. 407-238-9301

LEGOLAND Florida: This 150-acre family theme park, located in Winter Haven, offers more than 50 rides, shows and attractions geared for families with children ages 2 to 12. Normally closed on Tuesday and Wednesday (call or visit website to verify current schedule) 1-877-350-5346

Mall at Millenia: Offering the finest collection of luxury brands in Orlando including Bloomingdale’s and Neiman Marcus as well as an array of restaurants. 407-363-3555

Medieval Times Dinner Show: Return to the days of chivalry, knighthood and honor for an evening as a guest of a regal Count and Countess inside this European-style Castle. 1-888-935-6878

Old Town: This stunning replica of Florida’s days gone by boasts over 70 specialty shops, unique restaurants, amusement rides and exciting entertainment all year round. 407-396-1964

Orlando Premium Outlet Mall: Find impressive savings at over 150 designer outlet stores. Complimentary daily shuttle service available. Check the Bellstand for daily schedule. Shuttles are first come, first served basis. 407-238-7787

Planet Hollywood: Designed to capture the excitement and glamour of Hollywood, discover a place that’s out of this world! Filled with rare movie memorabilia; featuring superb California cuisine in a spectacular setting. 407-827-7827

Pointe Orlando: Outdoor shopping mall with theaters and restaurants. 407-248-2838

Sea World: World’s largest and most elaborate marine life park featuring killer whales, dolphin feeding pool, World of the Sea Aquarium, botanical gardens, animal shows, Shamu’s Happy Harbor, Wild Arctic and the Bermuda Triangle. 407-351-3600

Spaceport USA at Kennedy Space Center: NASA’s site for the launch and landing of the Space Shuttle. See exhibits, space science demonstrations and movies on the 5 1/2 story screen in the IMAX Theatre. 1-321-452-2121

Universal Studios: A motion picture and television production facility with rides, restaurants, over 50 movie sets and shops, all for you to explore. 407-363-8000

Wet ‘n Wild: Experience the nation’s best attended Waterpark! You’ll enjoy hours of fun flumes, fl oats and plunges. Discover the children’s playground with miniverisons of the most popular rides. 407-351-1800
Churches

Assembly of God

Calvary Assembly of God
711 N. Thacker Ave., Kissimmee
407-847-5673

Baptist

First Baptist Church of Kissimmee
1700 John Young Pkwy.
407-847-3138

First Baptist Church of Orlando
3000 S. John Young Pkwy.
407-425-2555

Catholic

Holy Redeemer Catholic Church
1603 N. Thacker Ave., Kissimmee
407-847-2500

Mary Queen of the Universe Shrine
8300 Vineland Ave., Orlando
407-239-6600

Christian

West Orange Christian Church
7325 Conroy-Windermere Rd., Orlando
407-299-2092

Lutheran

Christ the King Lutheran Church
4962 Apopka-Vineland Rd., Orlando
407-876-2771

Methodist

Kirkman Rd. United Methodist
340 S. Kirkman Rd., Orlando
407-295-4670

Presbyterian

First Presbyterian Church
15 W. Church St., Kissimmee
407-847-2807

First Presbyterian Church of Orlando
106 E. Church St.
407-423-3441

Synagogue

Southwest Orlando Jewish Congregation
11200 S. Apopka-Vineland Rd., Orlando
407-239-5444

Airlines
(For additional transportation needs contact the Guest Services Desk. Touch 8010.)

- Orlando International Airport
  407-825-2001
- Air Canada
  1-888-247-2262
- AirTran Airways
  1-800-247-8726
- American Airlines
  1-800-433-7300
- British Airways
  1-800-247-9297
- Continental
  1-800-523-3273
- Delta
  1-800-221-1212
- Jet Blue
  1-800-538-2583
- Northwest
  1-800-225-2525
- Southwest
  1-800-435-9792
- United Airlines
  1-800-864-8331
- US Airways
  1-800-428-4322
Errata Sheet

This document contains speaker changes made after the program was printed. We urge you to make these revisions directly on your personal copy of the agenda.

Monday, June 4th, 2012
01:30pm-03:00pm

Session 22: The Ramsar Convention and SWS - Linking Science to International Policy (Part 2 of 2)
01:40pm - Matthew Simpson - Socio-Economic Dimensions to Wetland Science (Presenting for: Ritesh Kumar)

03:30pm-05:00pm

Session 32: Interrelationships Among Hydrological, Biodiversity and Land Use Features of the Pantanal (Brazil) and Everglades (Part 3 of 3)
Moderator: Jennifer Richards (Replacing Catia Nunes da Cunha)

Tuesday, June 5th, 2012
10:30am-12:00pm

Session 47: Wetland Management
Moderator: Laura Brandt (Replacing Bob Ford)

Wednesday, June 6th, 2012
03:30pm-05:00pm

Session 107: Advanced Remote Sensing III: Monitoring (Part 3 of 3)
04:00pm - Mary Latiolais - Monitoring Wetland Changes Using Multitemporal Landsat Change Detection, Web Mapping Services, and Crowd Sourcing (Presenting for: Greg Koeln)

Thursday, June 7th, 2012
03:30pm-05:00pm

Session 135: Ecosystem Restoration Program Management and Large-Scale Project Implementation (Non-GEER)
Moderator: Eric Bush (Replacing Tom St. Clair)

03:40pm - Andrew LoSchiavo - Everglades Collaborative Adaptive Management Program Progress (Replacing Tom St. Clair)

Friday, June 8th, 2012
10:30am-12:00pm

Session 148: Climate Change Effects on Coastal Wetlands
11:40am - Charles Roman - Forecasting Salt Marsh Responses to Sea Level Rise Using the Elevation Capital Concept (Cancelled talk; Updated to session discussion)
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