

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); CH2MHill; 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 Gilbert, 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.

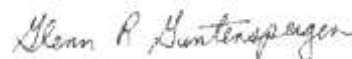
Sincerely,



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University of Florida/IFAS



Dr. Ronnie Best
US Geological Survey



Dr. Glenn Guntenspergen
Past President, SWS
US Geological Survey

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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Campbell Scientific

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Description: Campbell Scientific of Logan, Utah, designs and manufactures measurement and control instrumentation, specializing in programmable, field-based dataloggers for environmental and industrial applications. With over 35 years of experience and more than 150,000 units sold world wide, Campbell Scientific dataloggers are well-known for their quality measurements, versatility, and reliable performance—even in harsh, remote environments. Learn more about Campbell Scientific at www.campbellsci.com.

CH2M Hill

Booth Number: 6

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Description: As a global leader in consulting, design, design-build, operations, and program management, CH2M HILL has the human and technical resources, the international footprint, and the depth of know-how and experience to help clients achieve success in any corner of the world. We are a global project delivery company, helping our clients build a better and more sustainable world.

CNL World-WETMAAP

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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.

Environ

International Corp

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Description: Since 1982, ENVIRON has worked with clients around the world to help resolve their most demanding environmental and human health issues. We combine resources across geographic boundaries and technical and scientific disciplines to provide clients with the best, most responsive teams—whether responding to existing challenges, evaluating opportunities to improve performance or seeking to reduce future liabilities. Clients benefit from our unique ability to bring clarity to issues at the intersection of science, business and policy.

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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.

Forestry

Suppliers, Inc.

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LI-COR Biosciences

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Description: From the extremes of the rain forests in South America to the harsh conditions of the Antarctic, and to cutting edge research laboratories around the globe, scientists rely on products from LI-COR Biosciences to provide answers to their questions. LI-COR first introduced scientific instruments for plant science research and quickly grew to provide scientists tools for such diverse disciplines as atmospheric research and the study of how proteins interact at the cellular level. LI-COR Biosciences is a global leader in the design, manufacture, and marketing of high quality, innovative instruments, software, reagents, and integrated systems for plant biology, biotechnology, drug discovery, and environmental research. More than 30,000 customers in more than 100 countries use LI-COR instruments.

The National Park Service

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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.

**Society of Wetland Scientists
Professional Certification Program**

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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.

Soil Science Society of America (SSSA)

Booth Number: 29

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www.soils.org



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

Springer

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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

Tetra Tech

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Description: Tetra Tech provides responsible resource management and sustainable infrastructure services that encompass the full life cycle of solutions. We use our broad base of expert resources to dedicate ourselves to our clients' needs, offering innovative and cost-effective solutions to complex world problems.

WetCollect LLC | Software for Mobile Wetland Data Collection (Timmons Group)

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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
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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.

**US Army Corps of Engineers
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**US Army Corps
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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

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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

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States

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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

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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 wetlands 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 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.



Plenary Speaker Abstracts

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 Květ^{1,3}, Hana Čížková^{2,3} 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 – Ruzyně, 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

Stephen Polasky

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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.

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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)



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.

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

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

8:00 am – 5:00 pm

Boca 7

SWS Board of Directors meeting

By invitation only.

12 pm – 1 pm

Boca 6

SWS/SWSPCP Board of Directors lunch

By invitation only.

MONDAY, JUNE 4

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.

12:00 pm – 1:30 pm

Governor's Board Room

SWS Awards committee lunch

By invitation only.

5:30 pm – 6:30 pm

Grand Sierra D/E

SWS/INTECOL Plenary & Awards

Keynote speaker, Dr. Gene Turner, will provide an introductory plenary presentation on the history of SWS and INTECOL, followed by the presentation of prestigious SWS awards.

TUESDAY, JUNE 5

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

4:00 pm – 5:00 pm

Boca 8

Rocky Mountain chapter meeting

5:00 pm – 5:30 pm

Grand Sierra B

SWS Business meeting

The SWS Officers will report the past year's activities and announce the 2012 election results.

5:30 pm – 6:00 pm

Grand Sierra C

SWSPCP Informational Session

Learn the ins and outs of the SWS Professional 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.

WEDNESDAY, JUNE 6

10:30 am – 12:00 pm

Boca 1

Student Mentoring Program workshop
Government & Private Sector Careers.

5:30 pm – 7:30 pm

Boca 5/6

**SWS Global Change Ecology Section & Coastal
Blue Carbon reception**

Co-sponsored by Conservation International.

THURSDAY, JUNE 7

10:30 am – 12:00 pm

Boca 1

Student Mentoring Program workshop
Leadership. *By invitation only.*

FRIDAY, JUNE 8

1:00 am – 2:30 pm

Boca 1

Student Mentoring Program luncheon
By invitation only.



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 over view of the natural history of the expansive refuge that surrounds much of the Kennedy Space Center. While at the visitor center they explored the board walk 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. Emerald Marsh Restoration

Participants toured portions of the Emerald 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 Emerald 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 Emerald 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 Emerald 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, Wekiwa Springs offered participants the opportunity to relax in a natural setting, enjoyed a picnic, and swam 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)

Program Agenda and Schedule of Oral Presentations

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	
7:30 - 9:30	Pre-Registration Open for Field Trip Participants (Grand Sierra Ballroom A)
8:00 - 5:30	OPTIONAL Pre-Conference Technical Field Trips
10:00 - 06:00	Exhibitors Move-In (Caribbean Ballroom)
2:00 - 7:00	Poster Session I Set Up (Caribbean Ballroom)
4:00 - 7:00	CONFERENCE Registration Opens (Grand Sierra Ballroom A)
5:30 - 7:00	Evening on Own
Monday, June 4, 2012	
7:00 - 6:00	Registration Opens (Grand Sierra Ballroom A)
7:00 - 6:00	Exhibits & Posters on Display (Caribbean Ballroom)
7:00 - 6:00	Internet Café Open (Caribbean Ballroom)
7:00 - 8:30	Morning Refreshments (Caribbean Ballroom)
08:30 - 10:00	<p>Opening Plenary Session</p> <p>Introductions & Welcome: K. Ramesh Reddy, <i>Conference Chair</i> R. Eugene Turner, <i>Chair, INTECOL Wetlands Working Group</i> Glenn Guntenspergen, <i>Conference Co-Chair</i> G. Ronnie Best, <i>Conference Co-Chair</i></p> <p><u>Welcome Remarks:</u> Jack Payne, <i>Senior Vice President for Agriculture & Natural Resources</i> IFAS, University of Florida, USA</p> <p><u>Keynote Address:</u> Senator Bob Graham, <i>Welcome to the State of Florida & Everglades Restoration, USA</i></p> <p>(Grand Sierra Ballroom D&E)</p>
10:00 - 10:30	Break (Caribbean Ballroom)

9th INTECOL: International Wetlands Conference

Monday, June 4, 2012						
10:30 - 12:00	Concurrent Sessions					
	1	2	3	4	5	6
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	2011 National Wetland Condition Assessment (Part 1 of 3)	Wetlands Science and Oil Spills - Ecological Effects (Part 1 of 2)	Novel Ecosystems: Invasive Species (Part 1 of 3)	Climate Change - Coastal Wetlands	Plant Microbial Interaction and Microbial Diversity in Wetlands	Carbon Sequestration
Moderator	Kelly Chinnners Reiss	Scott Zengel	Joy Marburger	Susan-Marie Stedman	Pascal Boeckx	Kristin Byrd
10:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
10:40	Mary Kentula Reporting on Ecological Condition and Ecosystem Services for the 2011 National Wetland Condition Assessment	Qianxin Lin Impacts of the Deepwater Horizon Oil Spill and Recovery of Structure and Function in Coastal Salt Marshes	Carrie Reinhardt Adams Novel Ecosystems Persist Following Control of the Invasive Grass, <i>Phalaris arundinacea</i> (Reed Canary Grass)	Gijs van Dijk Peatland Restoration in a Changing Climate: Risks and Chances of Salinization in Coastal Peatlands	Dries Huygens Variation of Soil Microbial Community Structure and Activity along Ecohydrological Gradients	Hana Cizkova Carbon Sequestration by a Temperate Sedge-grass Marsh
11:00	Lenore Vasilas Natural Resources Conservation Service's Role in the National Wetland Condition Assessment	Steven Pennings Disturbance and Recovery of Salt Marsh Arthropod Communities Following the Deepwater Horizon Oil Spill	Steven Travis Cryptic Cattail Invasions in North American Wetlands: Impacts on Biodiversity	Camille Stagg The Effect of Saltwater Intrusion on Belowground Decomposition	Lindsay Darjany Characterization of Microbial Carbon Cyclers Using Stable Isotope Approaches	Joshua Breithaupt Strengthening the Century-Scale Global Estimate of Mangrove Organic Carbon Burial Rates
11:20	Jenet Dooley Level 1 Landscape Scale Analysis of Florida Wetland Condition	Giovanna McClenachan Effects of Oil on the Rate and Trajectory of Louisiana Marsh Shoreline Erosion	Claude Lavoie Common Reed (<i>Phragmites australis</i>) Stands in Freshwater Marshes: Biological Deserts Revisited	Lilia Gama Climate change impacts on the wetlands of Tabasco, Mexico	Wyatt Hartman Microbial Community Responses to Nutrient Enrichment in Wetland Soils	Kristin Byrd Quantifying Wetland Carbon Sequestration Potential in the Great Plains for Three Greenhouse Gas Emission Scenarios
11:40	Mary Kentula Reference Site Selection for the National Wetland Condition Assessment: Integrating Best Professional Judgment and Objective Selection	Micaleila Desotelle Ecological Impacts of a Major Oil Sands Pipeline Spill into the Kalamazoo River and its Floodplain (Michigan)	John Volin Functional Basis for Geographic Variation in Growth among Invasive Species: The Case of <i>Lygodium Microphyllum</i>	Sam Pardo Planning for Inland Migration of Coastal Wetlands Due to Sea Level Rise in Louisiana	Lucia Sekulova Microbial Structure and Function in Fens: Responses to Climate Change	Christian Dunn An Inconvenient 'Wetland' Truth – the Need to Consider Peatland-geoengineering Schemes
12:00 - 1:30	Lunch (Pavilion)					

Monday, June 4, 2012						
10:30 - 12:00	Concurrent Sessions					
	7	8	9	10	11	12
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	Olentangy River Wetland Research Park: Investigating Wetland Ecosystem Services at Multiple Landscape Scales (Part 1 of 3)	Interrelationships Among Hydrological, Biodiversity and Land Use Features of the Pantanal (Brazil) and Everglades (Part 1 of 3)	Adaptive Management Water, Wetlands, and Watersheds (AM:w3) the Florida Experience (Part 1 of 2)	The Ramsar Convention and SWS - Linking Science to International Policy (Part 1 of 2)	Biogeochemistry	Wetland Fauna
Moderator	Li Zhang	Rudolf Jaffe	Mark Brown	Robert McInnes	Marjorie Zeff	Dale Gawlik
10:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
10:40	Bill Mitsch Identification and Enhancement of the Ecosystem Services from Created and Restored Wetlands: Olentangy River Wetlands to the Florida Everglades to the Planet	Robert Johnson The Role of Science in Managing Pantanal and Everglades National Parks	Megan Brown Vegetation Response to Feral Hog (<i>Sus scrofa</i>) Disturbance in Seepage Slope Wetlands	Max Finlayson REDD+ and Wetlands: Wetland Human Interactions and the Need for Robust Science	Jan Kvet The Effect of Nutrient Supply on the Primary Production and the Participation of <i>Phalaris arundinacea</i> in a Wet Grassland Plant Community	Dale Gawlik Hydrologic Variability as a Global Driver of Colonial Waterbird Nesting
11:00	Chris Anderson Changes in Forested Wetland Composition, Structure, and Processes Along a Tidal Gradient on the Apalachicola River, FL, USA	Vic Engel Comparative Studies in Support of Sustainable Management of the Pantanal and the Everglades	David Pfahler Balancing Economic and Environmental Production: The Role of Wetlands in Sustainable Regions	Jos Verhoeven Water Quality Issues in Ramsar Wetlands	Joerg Schaller Silicon Availability Modifies the C:N:P Stoichiometry and Contents of Carbon Compounds in Grasses	Nathan Dorn Dry Disturbance and Fish Reduction Produce Enhanced Crayfish Densities in a Freshwater Wetland
11:20	Maria Hernandez Carbon Sequestration in Coastal Freshwater Wetland Soils in Veracruz Mexico	Pierre Girard Ecological Background for the Conservation of Pantanal and Everglades National Parks	Sean King Effects of Flow and Nitrogen on Filamentous Algae in Florida Spring-fed Rivers	Robert McInnes Linking UN-HABITAT, the Ramsar Convention, Urban Wetlands and Ecosystem Services	Lorie Staver <i>Spartina alterniflora</i> Marsh Development on Nutrient-rich Dredged Materials in a Large-scale Restoration Project in Mid-Chesapeake Bay	Jacoby Carter Activity Patterns of Nutria (<i>Myocastor coypus</i>) in an Urban Pond
11:40	Discussion	Richard Weisskoff Land-use Change and Water Management Associated with Societal and Ecological Developments in the Pantanal and the Everglades	Rachel Pawlitz Rethinking Adaptive Management as a Science-Policy Bridge: How Do We Engineer the Bridge?	Rachael Thomas Managing Environmental Flows to an Australian Ramsar Wetland, the Macquarie Marshes: Flooding Regimes for Wetland Vegetation	Robert Doyle Nutrient Processing Within Coastal Prairie Wetlands: A Nexus to Galveston Bay, TX	Maria Fernanda Adame Marine Subsidies Delivered by Birds to Mangrove Forests
12:00 - 1:30	Lunch (Pavilion)					

Monday, June 4, 2012						
1:30 -3:00	Concurrent Sessions					
	13	14	15	16	17	18
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	2011 National Wetland Condition Assessment (Part 2 of 3)	Wetlands Science and Oil Spills - Remediation, Damage Assessment, Restoration (Part 2 of 2)	Novel Ecosystems: Ecosystem Restoration and Management (Part 2 of 3)	Organic Soils	Trace Metals	Mississippi River Delta: Delta Deterioration and the Pathway Forward
Moderator	Kelly Chinnners Reiss	Don Deis	Wiley Kitchens	Niko Rosskopf	Rick Black	Alisha Renfro
1:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
1:40	Christina Hargiss The North Dakota Intensification of the NWCA: An Endeavor in Collaboration	Scott Zengel Deepwater Horizon Oil Spill: Salt Marsh Treatment Testing and Monitoring, Northern Barataria Bay, Louisiana	Joel Trexler Does the Everglades still exist?	Niko Rosskopf Soil Physical Properties of Organic Soils in Germany and their Relevance for the Climate Reporting	David Krabbenhoft Methylmercury Production in Everglades National Park: Biogeochemical Drivers and Implications for Restoration	Brady Couvillion Land Area Change in Coastal Louisiana 1932-2010
2:00	Mary Boyd Florida Participation in the National Wetland Condition Assessment	Marla Steinhoff Coastal Wetland Natural Resource Damage Assessment Plan for the Deepwater Horizon Oil Spill	Wiley Kitchens <i>Refugia</i> in a Novel Ecosystem: Everglades Snail Kite in Florida	Dongqui Wang Methane Emission from Estuarine Wetlands and the Effect of Wetland Plant	Joerg Schaller Metal/ Metalloid Accumulation/ Remobilization During Aquatic Litter Decomposition in Freshwater	Alexander Kolker A New Subsidence Curve for Mississippi River Delta Tide Gauges and its Implications for Coastal Restoration
2:20	Virginia Baker North Carolina National Wetland Conditional Assessment Site Descriptions, Rapid Assessment Results, and Method Evaluation	Brittany Bernik Salt Marsh Restoration Following an Oil Spill: Ecosystem Consequences of Genetic Variation	Peter Frederick Effects of Novel Water Regimes, Invasive Predators, and Contaminants on Population Dynamics of Wading Birds (Ciconiiformes) in the Everglades of Florida,	Holger Fell Mapping Organic Soils in Germany in the Frame of Climate Reporting	Gintautas Zavadzkas Demonstration Project for Mercury Abatement and Habitat Enhancement in the Miccosukee Tribe of Indians of Florida	Aaron Bass Meeting the Challenge of Barrier Island Restoration: An Overview of the LCA Terrebonne Basin Barrier Shoreline Restoration Planning Process
2:40	Kelly Chinnners Reiss Florida's Use of Supplemental NWCA Funds to Inform Water Quality Standards Development	Chris Cormack Early Results and Guidance from a Coastal Habitat Restoration Project Twenty Years after the 1991 Gulf War Oil Spill	Sue Galatowitsch The Potential Effect of the Novel Ecosystem Concept on Wetland Restoration Planning and Evaluation	Maria Hernandez Methane and Nitrous Oxide Emissions in Freshwater Swamps and Marshes in Southeastern México	Briam Bergamaschi Tidal Flux of Dissolved Organic Carbon, Total Mercury, and Methylmercury from Shark River Estuary, Everglades National Park, USA	Angelina Freeman Integrating Science, Policy, and Stakeholder Outreach to Accelerate Restoration
3:00 - 3:30	Break (Caribbean Ballroom)					

Monday, June 4, 2012						
1:30 -3:00	Concurrent Sessions					
	19	20	21	22	23	24
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	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)
Moderator	Bill Mitsch	Paulo Teixeira de Sousa	Mark Brown	Robert McInnes	Tiffany Troxler and Brian Benschoter	Nicholas Aumen
1:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
1:40	Ulo Mander The Regulation of Greenhouse Gas Fluxes by Wetlands at Landscape Level	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	Ritesh Kumar Socio-Economic Dimensions to Wetland Science	Kimberly Wickland Carbon Dynamics in High Latitude Peatlands: Effects of Permafrost Thaw	Rebekah Gobble Performance Measures and Adaptive Management of the Florida Everglades
2:00	Bill Mitsch Carbon Export and Budget of Created Wetlands: Importance of Hydrology	Elise Pearlstine Habitat Use by Wildlife in Agricultural and Ranching Areas in the Pantanal and 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
2:20	Blanca Bernal Carbon Sequestration in Tropical Wetlands of Costa Rica	Catia Nunes da Cunha Landscape Ecology Approaches for the Conservation of Pantanal and Everglades Vegetation	Olekae 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
2:40	Doug Spieles Seedling Recruitment in Variable Hydrologic Regimes	Jennifer Rehage Effects of Seasonal Hydrology on Fish Dynamics in Subtropical Freshwater Wetlands: A Comparative Study Between the Pantanal and the Everglades	Deborah Wojcik Communication, Social Networks, and Perceptions of Water and Wildlife in the Okavango Delta, Botswana	Discussion	Avni Malhotra Relating Self-Regulation with Ecosystem Structure and Function in Northern Peatlands	Evelyn Gaiser Ecosystem-Wide Assessment of Wetland Restoration Using Periphyton-Based Metrics
3:00 - 3:30	Break (Caribbean Ballroom)					

Monday, June 4, 2012						
3:30 - 5:00	Concurrent Sessions					
	25	26	27	28	29	30
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	2011 National Wetland Condition Assessment (Part 3 of 3)	Hindcasts and Futurecasts Link Hydrology and Ecology in the Coastal Everglades	Novel Ecosystems: Climate Change and Summary (Part 3 of 3)	Tropical Floodplain Ecosystems: Comparative Analyses across Scales and Biomes	An Integrated Approach for Sustainable Use of Wetlands	Indicators for Wetland Monitoring and Assessment
Moderator	Kelly Chinnners Reiss	Catherine Langtimm	Beth Middleton	Len Berry	Wolfgang Junk	Patrick Hunt
3:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
3:40	Erica Hernandez Crosswalk of the Florida Wetland Condition Index within the National Wetland Condition Assessment	Jiang Jiang Predicting and Detecting Consequences of SLR and Storm Surges on Coastal Vegetation Regime Shifts	Beth Middleton Wetland Function and Composition in Novel Swamp Environments	Stephen Hamilton Tropical Floodplain Ecology: Australia Compared to South America	Wolfgang Junk Habitat Classification of Wetlands: a Powerful Tool for Research, Management and Protection	Patrick Hunt Denitrification Enzyme Activity in Mid Atlantic Coastal Plain Wetlands
4:00	Robert Compton Initial Regulatory Applications of the Florida Wetland Condition Index for Vegetation (FWCI-V)	Dennis Krohn Using Modern Hurricane Wind Data to Supplement Hydrodynamic Hindcast and Futurecast Models	Sylvie de Blois Projecting Wetland Plant Species Distribution in a Changing Climate	Jorge Celi Ecological Implications of Erratic Floods in Large River Floodplains of the Andean Amazon Region	Catia Nunes da Cunha Biodiversity and Management of Pantanal Wetlands: an Approach for the Sustainable Use of Brazilian Wetlands	Neal Flanagan Alteration of Riparian Plant Community Structure under Climate Change Scenarios: The Effects of Temperature and Hydroperiod
4:20	Mick Micacchion Improving Success Rates for Compensatory Wetland Mitigation Using Quantifiable Ecological Performance Standards Developed from Level 3 National Wetland Condition Assessment Data	Eric Swain Investigating Hydrologic Scenarios with Climate Change and Ecosystem Process Feedback Using Hindcast and Futurecast Modeling	Martin Wassen Novel Ecosystems: A European Perspective	Tim Jardine Food Webs of the Wet-dry Tropics: Multiple Sources of Primary Production Fuel Animal Biomass	Paulo Teixeira de Souza Bioprospection for the Sustainable Use of Wetlands	Taylor Sloey Environmental Constraints and Species Differences in Establishment and Expansion of Three Freshwater Tidal Marsh Plant Species
4:40	Jamie Saxton Lessons Learned from the 2011 National Wetland Condition Assessment	Brad Stith Futurecasting Effects of Sea Level Rise, Climate Change, and Restoration on Individual Species	Arnold van der Valk History and Implications of the Novel Ecosystem Concept	Ronald Zurbrugg Hydrological Drivers of Organic Matter Quality, Mineralization, and Export in a Tropical Dam-Impacted Floodplain System	Michele Sato Science and Culture on Edu-Communication Reinvention	David Mahnken Use of Indicator of Reduction in Soils (IRIS) Tubes as a Performance Measure in Wetland Restoration
5:30 - 6:30	INTECOL & SWS Plenary & Awards (Grand Sierra Ballroom D&E) Master of Ceremonies - Greg Noe, Chair, SWS Awards Committee					
6:30 - 8:30	Welcome Reception and Interactive Poster Presentations Session I (Caribbean Ballroom)					

Monday, June 4, 2012						
3:30 -5:00	Concurrent Sessions					
	31	32	33	34	35	36
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	Olentangy River Wetland Research Park: Investigating Wetland Ecosystem Services at Multiple Landscape Scales (Part 3 of 3)	Interrelationships Among Hydrological, Biodiversity and Land Use Features of the Pantanal (Brazil) and Everglades (Part 3 of 3)	Integrating Biophysical and Economic Values of Wetlands	Impact of Peatland Fires on Ecosystem Function and Feedbacks to Climate: A Global Perspective (Part 1 of 2)	Invasive Species - Plants	Emerging Science in the Management of Wetlands (Part 2 of 2)
Moderator	Chris Anderson	Catia Nunes da Cunha	Mark Brown	Brian Benschoter & Merritt Turetsky	Jennifer Sagan	Nicholas Aumen
3:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
3:40	Jorge Villa Carbon Fate and Turnover and its Relationships with Phosphorous Retention in a Wetland Mesocosm Experiment	Henry Briceño Biogeochemical Segmentation and Derivation of Protective Numeric Nutrient Criteria for Coastal Everglades waters, South Florida	Mark Brown Integrating Biophysical and Economic Values of Wetlands	Brian Benschoter Fire and Carbon Cycling in Boreal North American Peatlands	Steven Hess Parallel Universes: Remarkable Similarities in the Siege of Invasive Species on Florida and Hawaii	Angelique Bochnak Hydrologic Influences on Water Quality in Blue Cypress Marsh Conservation Area
4:00	Kay Stefanik Vegetation Succession of Created Wetlands in Ohio	Rudolf Jaffe Dissolved Organic Matter in Large, Subtropical, Freshwater Wetlands: A Comparative Study Between the Pantanal, Everglades and Okavango Delta	Damian Adams Integrating Biophysical and Economic Values of Wetlands: Recent Advances in Ecosystem Service Valuation	Merritt Turetsky The Burning of Northern Peatlands: Are we Approaching a Tipping Point?	Brad Mudrzyński Habitats Invaded by European Frogbit (<i>Hydrocharis morsus-ranae</i>) in Lake Ontario Coastal Wetlands	Melissa Martin Understanding the Invasion and Management of <i>Melaleuca quinquenervia</i> from Top-down to Bottom-up
4:20	Li Zhang Wetland Carbon Dynamics in the Eastern Tibetan Plateau	Scott Markwith The Influence of Abiotic and Biotic Seed Dispersal Vectors on Vegetation Structure in the Everglades and Pantanal	Christopher Craft Ecosystem Services of Restored Freshwater Wetlands of the Agricultural Midwest: Measurement and Valuation	Guillermo Rein Smoldering Mega-Fires in Wetlands and Positive Feedbacks to the Climate System	Chunfu Tong Effects of Introduced <i>Spartina alterniflora</i> on the Benthic and Aerial Macroinvertebrates in the Salt Marsh	Todd Osborne Soil Nutrient Storage and Cycling in the Restored Kissimmee River Floodplain
4:40	Discussion	Discussion	Jae-Young Ko Money and Embodied Energy-Based Valuations for Wetlands Utilization of Wastewater Treatment	James Reardon Smoldering Combustion of Organic Soils on the North Carolina Coastal Plain	Drew Kerr Endangered Species Recovery vs. Eradication of an Invasive Ecosystem Engineer: Surprising Story of Invasive <i>Spartina</i> Project	Paul McCormick Water Quality Constrains Hydrologic Management Options for a Northern Everglades Peatland
5:30 - 6:30	INTECOL & SWS Plenary & Awards (Grand Sierra Ballroom D&E) Master of Ceremonies - Greg Noe, Chair, SWS Awards Committee					
6:30 - 8:30	Welcome Reception and Interactive Poster Presentations Session I (Caribbean Ballroom)					

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)

Tuesday, June 5, 2012	
8:00 - 6:00	Registration Opens (Grand Sierra Ballroom A)
8:00 - 6:00	Exhibits & Posters on Display (Caribbean Ballroom)
8:00 - 6:00	Internet Café Open (Caribbean Ballroom)
8:00 - 9:00	Morning Refreshments (Caribbean Ballroom)
09:00 - 10:00	<p>Plenary Session Ecosystem Services</p> <p><u>Moderator:</u> Glenn Guntenspergen</p> <p><u>Plenary Speakers:</u> Jan Kvet, <i>University of South Bohemia, Czech Republic</i> "Interactions between Human Activities and the Structure and Functioning of Wetland Ecosystems"</p> <p>Brij Gopal, <i>Centre for Inland Waters in South Asia - National Institute of Ecology, India</i> "Whither Wetland Conservation? A View from Developing Countries"</p> <p>(Grand Sierra Ballroom D&E)</p>
10:00 - 10:30	Break (Caribbean Ballroom)

Tuesday, June 5, 2012						
10:30 - 12:00	Concurrent Sessions					
	37	38	39	40	41	42
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	GEER Plenary Session – Restoring the Heart of the Everglades	Climate Change Management	Ecology of Tree Islands in the Everglades	Plant-nutrient Interactions in Tropical Wetlands	Mercury Fate, Transport & Bioaccumulation in Wetlands (Part 1 of 3)	Linking Microbial Community Structure to Greenhouse Gas Emissions from Wetlands
Moderator	G. Ronnie Best	Lance Gunderson	Sharon Ewe	Omar Lopez	Christopher Knightes	Paul Bodelier
10:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
10:40	Shannon Estenoz Col. Al Pantano Melissa Meeker Dan Kimball This panel will focus on bringing restoration to the heart of the Everglades.	Lance Gunderson Managing Crises, Climate Change and Ecological Resilience in Complex Resource Systems	Sharon Ewe Ecological Patterns and Processes in Ghost Tree Islands of the Everglades	Alexander Cheesman Plant–Nutrient Interactions in a Neotropical Ombrotrophic Peatland	David Krabbenhoft Methylmercury Production in Everglades National Park: Biogeochemical Drivers and Implications for Restoration	Stephen McAlister Linking Methane Production Rate to Methanogen Community Structure in Peatland Soils
11:00	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	Matteo Convertino Enhanced Adaptive Management for Everglades in Response to Climate Change	Daniel Irick Soil Phosphorus Characteristics in Tree Islands of the Florida Everglades	Ilka Feller Latitudinal Variations in Ecological Stoichiometry in Mangrove Communities: What is the Impact of Nutrient Loading on Canopy and Benthic Food Webs?	George Aiken Understanding the Dissolved Organic Matter–Mercury Connection in Wetlands: Lessons from the Florida Everglades	Irina Kravechenko Methane Emission and Microbial Communities of the Methane Cycle in Natural and Drained Peatlands
11:20		Jane Chambers Climate Change and Western Australian Aquatic Ecosystems: Impacts and Adaptation	Sonali Saha The Influence of Salinity on Coastal Hammocks in Everglades National Park	Christine Pickens Considering Nitrogen and Black Mangrove (<i>Avicennia germinans</i>) In Context: Lessons Learned	Paul Bradley Hydrologic Controls on Methylmercury Transport from Wetlands to Stream in Coastal Plain Basins	Susannah Tringe Microbial Communities in Restored Freshwater Wetlands
11:40		Jan Pokorny Water and Plants Regulate Temperature and Local Climate	Susana Stoffella Hydrology, Substrate Type and Density Effects on Species Growth and Survival in Created Everglades Tree Islands	Laurel Larsen A Test of the Nutrient Redistribution Hypothesis in the Everglades Ridge and Slough Landscape	Karen Riva-Murray Mercury Bioaccumulation by Macroinvertebrates and Fishes of Streams in Contrasting Landscapes	Andrew Ogram Life at the Front: Microbial Ecology of Shifting Nutrient Limitations and Methanogenesis in the Northern Everglades
12:00 - 1:30	Lunch (Pavilion)					

Tuesday, June 5, 2012						
10:30 - 12:00	Concurrent Sessions					
	43	44	45	46	47	48
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	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 Benschoter & Merritt Turetsky	Bob Ford	ML Robinson
10:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
10:40	Priscah Rongoei Response of Papyrus Wetland Ecosystem to Seasonal Changes in Hydrology and Livelihood Pressures	Robert Twilley Net Ecosystem Carbon Exchange of Mangroves: Complexities in Developing Global Budgets	Julia Cherry The Importance of Mentoring for Student Success in the Sciences	Adam Watts Scale-Dependent Microclimate Effects of Wetland Wildfire	Damian Walters Making Science Real - Using State of Environment Reporting to Improve Wetland Practice	Jane Awl Modernizing U.S. National Standards for the Classification and Mapping of Wetlands
11:00	Patrick Khisa Groundwater-Surface Water Interactions in a Papyrus Wetland	Catherine Lovelock Variable Effects of Nutrient Enrichment on Soil Respiration in Mangrove Forests	Mark Clark Taking Your Science to the General Public: The Extension Model	Ana Rappold Peat Bog Wildfire Smoke Exposure in Rural North Carolina is Associated with Cardio-Pulmonary Emergency Department Visits	Brian Nicholson Defining Wetland Health: A Foundation for Conservation Planning	Patricia Chow-Fraser URBAN, a Citizen-Science Program Based in Hamilton, Ontario
11:20	Ilya Maclean Birds, People and Papyrus Swamps: Balancing Livelihoods and Biodiversity Conservation	Jackie Batson Soil CO ₂ and CH ₄ Emissions and Carbon Budgeting in Dry Floodplain Wetlands	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)	Matthew Warren Tropical Peatlands of Southeast Asia: Functions, Threats, and the Role of Fire in Climate Change Mitigation	Guilherme M. O. Abuchahla Building up Resilience for Climate Chance in a Coastal Community of Tamil Nadu, India	Charles Andrew Cole Schoolyard Wetlands: Creating Aquatic Spaces For Learning
11:40	Edwin Hess Effect of Vegetation Harvesting on Nitrogen and Phosphorous Cycling in Rooted Papyrus Wetlands	Patrick Megonigal Approaches and Limitations to Quantifying Plant Regulation of Methane Emissions		Panel Discussion & Synthesis	Alan Dixon Local Institutional Arrangements for Wetland Management in Ethiopia and Malawi	Lawrence Handley Wetlands Inventory and Monitoring Using Citizen Scientists through Crowd Sourcing
12:00 - 1:30	Lunch (Pavilion)					

Tuesday, June 5, 2012						
1:30 -3:00	Concurrent Sessions					
	49	50	51	52	53	54
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	Tradeoffs in Wetland Ecosystem Services in Working Landscapes - Conceptual Frameworks (Part 1 of 2)	Ecosystem Models & Adaptive Management (Part 1 of 2)	Graduate Student Research on Wetland Complexity in the Florida Coastal Everglades (Part 1 of 2)	Colonization of Wetland Habitat: Succession in Restored Habitats (Part 1 of 2)	Mercury Fate, Transport & Bioaccumulation in Wetlands (Part 2 of 3)	Linkages - Microbial Communities and Biogeochemistry (Part 1 of 2)
Moderator	Hilary Swain	Stephanie Romanach	Rebecca Garvoille	Dennis Whigham	Paul Bradley	Paul Bodelier
1:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
1:40	Elizabeth Boughton Hilary Swain Trade-offs in Wetland Ecosystem Services: Identification, Spatial Scale and Management Implications	Fred Sklar Application of Adaptive Management for Wetland Restoration: An Overview of a Large-Scale Everglades Physical Model	Ross Boucek Resource Partitioning among Three Mesocosms at a Marsh Mangrove Ecotone: A Response to a Seasonal Resource Pulse Subsidy	Mary Leck Dispersal Potential of a Tidal River: Wetlands. Colonization of a Created Tidal Freshwater Marsh on the Delaware River, USA	Christopher Knightes Modeling Mercury Exposure at Different Scales in the McTier Creek Watershed and Edisto River Basin, SC, USA	Jessica Moon Nitrogen Cycling in Headwater Wetlands across Condition Gradients in Pennsylvania and Ohio
2:00	Ned Euliss Sustaining Wetlands in Working Landscapes: Using Functional Processes to Inform Tradeoff Decisions	H. Carl Fitz Model Analysis of Eutrophication Constraints on an Everglades Restoration Project	Kristie Wendelberger Detecting Long-term Plant Community Shifts in Response to Sea Level Rise and Everglades' Restoration	Metthea Yepsen Vegetation Patterns in Prior Converted, Restored, and Reference Wetlands in the U.S. Mid-Atlantic Coastal Plain	Heather Golden Mercury Dynamics in a Coastal Plain Watershed: A Multiple Model Approach	Hendrikus Laanbroek The Effect of Hydrology on the Distribution of Ammonia-Oxidizing Betaproteobacteria in Impounded Black Mangroves (<i>Avicennia Germinans</i>)
2:20	Diane De Steven Restoring Southeastern Wetlands through the Wetlands Reserve Program: Ecological and Programmatic Trade-offs	Walter Wilcox Tools for Broader-scale Everglades Hydrologic Analysis and Planning	Mehrnoosh Mahmoudi Effect of Hydrologic Conditions and Sediment Transport on Wetland Patterning	Karin Kettenring Reproduction, Dispersal, Emergence, and Establishment of <i>Phragmites australis</i> in Disturbances in Chesapeake Bay Tidal Wetlands	Paul Conrads Evaluation of Mercury Loads from Climate Change Projections for McTier Creek, South Carolina	Bram Mulling Microbial Community Changes During Residence of Treated Wastewater in a Constructed Wetland
2:40	Jos Verhoeven Wetland Ecosystem Services in Agricultural Landscapes: Opportunities and Risks	Christa Zweig Ridge And Slough Multistate Modeling For Landscape Management	David Lagomasino Seasonal Water Chemistry and Spectral Reflectance in Coastal Mangroves	Susan Galatowitsch Barriers to Colonization in Sedge-Dominated Wetlands	Paul Bradley Landscape Controls on Total and Methyl Hg in the Upper Hudson River Basin, New York, USA	Pieter Vandermeeren Microbial Degradation of Pesticides in Wetlands: Effects of Season Bound Changes
3:00 - 3:30	Break (Caribbean Ballroom)					

Tuesday, June 5, 2012						
1:30 -3:00	Concurrent Sessions					
	55	56	57	58	59	60
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	The Ecology of Livelihoods in Papyrus Wetlands: Ecosystem Functions, Services and Livelihoods (Part 2 of 3)	Measurement of Greenhouse Gas Emissions from Wetlands (Part 2 of 3)	Symposium on Wetland Delineation and Regionalization (Part 1 of 2)	Fire: Shaping Wetlands from Nutrients to Wildlife (Part 1 of 4)	Mapping and Monitoring Large Wetland Systems and Biophysical Properties with Earth Observation Satellite Imagery (Part 1 of 2)	The Unique and Complex Relationships Between Natural Wetland and Upland Habitats and Phosphate Mining (Part 1 of 2)
Moderator	J.B. Okeyo-Owuor	Kevin Kroeger	Jacob Berkowitz	Adam Watts	Thiago Silva and Maycira Costa	Kym Rouse Campbell
1:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
1:40	Yasir Mohamed Impact of Climate Variability on the Hydrology of the Sudd Wetland: Signals Derived From Long-term (1910 to 2010) Water Balance Computations	John Marton Quantifying Effects of Salinity and Water Level on Greenhouse Gas Emissions Using Two Different Approaches: Lab Incubations vs in situ Measurements	Jacob Berkowitz/ Paul Minkin Regionalizing the USACE Wetland Delineation Manual- The Role of the National Technical Committee for Wetland Vegetation	Patrick Inglett The Impact of Fire on Soil and Plant Nutrients in Calcareous Subtropical Wetlands	Bruce Chapman Mapping Floodplain Dynamics of the Amazon River Basin Using the Space-borne ALOS PALSAR Synthetic Aperture Radar	Kristen Nowak Environmental Benefits of Stream Restoration on Phosphate Mined Lands
2:00	Gretchen Gettel Controls of Denitrification in Papyrus Wetlands of the Nyando and Mara Rivers, East Africa	Justin Meschter Quantifying Soil Greenhouse Gas Fluxes in Relation To Inundation, Salt-Water Intrusion and Microbial Respiration in Tidal Wetlands	Robert Lichvar Bringing Science and Technology to the National Wetland Plant List	Jay Sah Fire and Flooding Interactions: Vegetation Trajectories in the Southern Everglades Marl Prairies, Florida, USA	Patricia Kandus Monitoring Spartina Marshes in the Argentine Coast: Integrating Biophysical Parameters, Hyperspectral Field Data and Satellite Observations	Mark Rains Hydrology of Clay Settling Areas and Surrounding Landscapes in the Phosphate Mining District, Peninsular Florida
2:20	Rose Kaggwa The Effects of Wastewater Discharge, Agriculture and Papyrus Harvesting on the Nutrient Regulation Function of Namatala Wetland, Uganda	Kevin Kroeger Blue Carbon in Wetlands: Consideration of Lateral and Vertical Greenhouse Gas Fluxes	Jennifer Gillrich Developing a National Standard for Challenges to the National Wetland Plant List	Liao Xiaolin Fire Effects on the Nitrogen Cycle in Calcareous Wetlands of the Florida Everglades	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	Tyler Nicoll Potential Benefits of Incorporating Biochar, a Soil Amendment, into Wetland Reclamation
2:40	Serena Nasongo Institutions and Governance: Commercialization of Wetland Resources and its Effect on Traditional Institutions in the Nyando Papyrus Wetlands, Kenya	Vincent Gauci Considering Scale When Assessing Wetland Methane Emissions: Wetland Forest Soils versus Wetland Forests	Lindsey Dixon Wetland Characteristics of Glacially Derived Boulder Fields in the Northeastern United States	Cassandra Medvedeff Response of Microbial Activity, Respiration and Methanogenesis to Fire Residues (Ash and Char) in Two Contrasting Subtropical Wetland Soils	Viviane Reno Deforestation Evolution in the Amazon Floodplain	Discussion
3:00 - 3:30	Break (Caribbean Ballroom)					

Tuesday, June 5, 2012						
3:30 -5:00	Concurrent Sessions					
	61	62	63	64	65	66
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	Tradeoffs in Wetland Ecosystem Services in Working Landscapes - Biodiversity and Hydrologic Services (Part 2 of 2)	Ecosystem Models & Adaptive Management (Part 2 of 2)	Graduate Student Research on Wetland Complexity in the Florida Coastal Everglades (Part 2 of 2)	Colonization of Wetland Habitat: Plant Dispersal and Establishment (Part 2 of 2)	Mercury Fate, Transport & Bioaccumulation in Wetlands (Part 3 of 3)	Linkages - Microbial Communities and Biogeochemistry (Part 2 of 2)
Moderator	Elizabeth Boughton	Carol Mitchell	Kristie Wendelberger	Jos Verhoeven	Paul Bradley	Chris Craft
3:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
3:40	Chris Joyce Effects of Raised Water Levels on Wet Grassland Plant Communities in Southern England	Scott Leibowitz Connectivity of Wetlands to Downstream Waters: Conceptual Framework and Review	Rebecca Garvoille Encountering Culture in Restoration: Understanding Cultural Tensions in the Florida Everglades and Beyond	Gudrun Bornette Urban Wetlands: Propagule Banks in Aquatic Wetland Ecosystems: Disturbances as a Key Process	William Orem Modeling the Effects of Sulfate Loading and Methylmercury Production in the Everglades	David Berrier The Effect of Saltwater Intrusion on Microbial Community Structure and Function in a Tidal Freshwater Marsh
4:00	Lauchlan Fraser The Effects of Cattle Grazing on Breeding Waterfowl in Intermountain Depressional Wetlands	Craig Conzelmann Visualizing Upper Trophic and Ecosystem Modeling Outputs with EverVIEW to Inform the Decision Process in Coastal Louisiana	Carrie Rebenack Seasonality and Disturbance Events in the Carbon Isotope Record of <i>Pinus elliotii</i> Tree Rings from Big Pine Key, Florida	David Gowing The Dynamics of Species-rich Meadows on UK Floodplains	Christopher Knightes 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	Kathryn Pierfelice Linkages between Microbial Biomass and Litter Decomposition in Tidal Forested Wetlands
4:20	Patrick Bohlen Assessing Tradeoffs Among Wetland Ecosystem Services in a Payment-for-Ecosystem-Services Program on Florida Ranchlands	Leonard Pearlstine Modeling Coastal Vegetation Community Succession using the Everglades Landscape Vegetation Succession Model	Lisa Chambers Biogeochemical Effects of Saltwater Intrusion and Increased Inundation on Everglades Peat Soil	Norbert Hölzel Colonization and Succession in Restored Wet Grasslands: Lessons from Long-term Experiments	Peter Kalla Biogeochemical and Community Structural Controls on Mercury in Everglades Food Webs	Megan Steinweg Temperature Sensitivity of Enzyme Activity at Depth in a Bog at Marcell Experimental Forest, MN, USA
4:40	Sanjay Shukla Hydroecologic Modeling and Decisions Support System for Evaluating Environmental Services from Ranchlands in the Northern Everglades	Allison Shideler Hypothesis Testing of Everglades Marsh Community Interactions Using Structural Equation Modeling	Evelyn Gaiser Panel Discussion	Joseph Shisler Saltmarsh Ecosystem Restoration on Intertidal/Submerged Cap in an Urban System	John Johnston MERGANSER – An Empirical Model to Predict Fish and Loon Mercury in New England Lakes	Ember Morrissey Linking Organic Matter Breakdown to Abundance and Community Composition of Denitrification and DNRA Microorganisms in Tidal Wetlands
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						
3:30 -5:00	Concurrent Sessions					
	67	68	69	70	71	72
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	The Ecology of Livelihoods in Papyrus Wetlands: Interdisciplinary Approaches for Improved Governance (Part 3 of 3)	Measurement of Greenhouse Gas Emissions from Wetlands (Part 3 of 3)	Symposium on Wetland Delineation and Regionalization (Part 2 of 2)	Fire: Shaping Wetlands from Nutrients to Wildlife (Part 2 of 4)	Mapping and Monitoring Large Wetland Systems and Biophysical Properties with Earth Observation Satellite Imagery	The Unique and Complex Relationships Between Natural Wetland and Upland Habitats and Phosphate Mining (Part 2 of 2)
Moderator	Fred Zaal	Scott Neubauer	Jacob Berkowitz	Cassandra Medvedeff	Lisa-Maria Rebelo and Maycira Costa	Kym Rouse Campbell
3:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
3:40	Paul Ouedraogo Wetland Policy Development in Rwanda: from Wetland Inventory to Legislation for Sustainable Use	Alex Chow Quantifying Halocarbon Contributions to Greenhouse Gas Emissions from Wetland Soils	Steve Eggers A Complex Wetland Delineation Involving a Ditched Wetland in the Twin Cities, Minnesota, USA	Adam Watts Smoldering Cypress Swamp Soils: Moisture Effects and Implications for Forest Structure	Richard Lucas Use of ALOS PALSAR for Regional Mapping and Monitoring of Mangroves	Adam Platt Using Reclaimed Phosphate Lands for Water Treatment and Aquifer Recharge
4:00	István Zsuffa Overview of Results from the EU-WETwin Project with Special Reference to Ugandan Papyrus Wetlands	Jordan Barr Mangrove Ecosystem Function and Response to Climate Change	Justin Bailey Multi-Scale Monitoring of Potential Groundwater Withdrawal Impacts Using Delineation Methodology; Lower Platte River, Nebraska	Jim Snyder Mass Mortality of Hardwood Shrubs after a Single Fire in Seasonally Flooded Prairie	Pedro Souza-Filho Multi-temporal Mapping of the Largest Continuous Amazonian Mangrove Belt Using Object-Based Classification of Multisensor Images	Sandra Patrick Mosaic Fertilizer's Wellfield: Habitat Restoration, Conservation and Growing the Florida Scrub Jay
4:20	Julius Kipkemboi Integration of Ecological, Hydrological and Socio-Economic Data into a Bayesian Network Model for the Sustainable Utilization of Papyrus Wetlands	Lisamarie Windham-Myers Why do Restored Temperate Peatlands Sequester so Much Carbon? Insights from Comparing CO ₂ Fluxes Using Eddy Covariance, Static Chamber, and Leaf Exchange Approaches	Sarah Soard Use of the Prevalence Index to Determine Plant Community Trends Related to Groundwater Withdrawal, Lower Platte River, Nebraska	John Jones Tracking Everglades Fire Scar Vegetation Recovery through Archival Landsat Image Interpretation	Marc Simard Maps of Canopy Height and Biomass of All Mangrove Forests of the Americas	Joseph Nicolette A Demonstration of an Ecosystem Services Valuation Methodology for Reclaimed Phosphate Mined Lands
4:40	Fred Zaal Session Summary and Conclusions	Eric Sundquist Rapid Assessment of Carbon Storage and Sequestration Capacity in U.S. Wetlands	Panel Discussion	Paul Gagnon Effects of Fire on River Cane (<i>Arundinaria gigantea</i>) in a Bottomland Hardwood Forest Four Years After Burning	Etienne Fluet-Chouinard Development of a New High-Resolution Global Inundation Map	Discussion
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)					

**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	
8:00 - 6:00	Registration Opens (Grand Sierra Ballroom A)
8:00 - 6:00	Exhibits & Posters on Display (Caribbean Ballroom)
8:00 - 6:00	Internet Café Open (Caribbean Ballroom)
8:00 - 9:00	Morning Refreshments (Caribbean Ballroom)
09:00 - 10:00	<p>Plenary Session <i>Governance of Large Scale Ecosystems & Global Wildlife and Wetlands</i></p> <p><u>Moderator:</u> G. Ronnie Best</p> <p><u>Plenary Speakers:</u></p> <p>Richard Beilfuss, <i>International Crane Foundation, USA</i> "Wetlands, Water, and Climate—Perspective from Southern Africa"</p> <p>Lynn Scarlett, <i>Leading Environmental Policy Analyst, USA</i> "Coastal and Wetlands Management: Challenges of Shared Governance"</p> <p>(Grand Sierra Ballroom D&E)</p>
10:00 - 10:30	Break (Caribbean Ballroom)

Wednesday, June 6, 2012						
10:30 - 12:00	Concurrent Sessions					
	73	74	75	76	77	78
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	Wetlands Governance and Legal Framework (40)	Everglades Nutrients and Water Quality	Habitat Management and Ecological Research in the Northern Everglades	Connectivity of Wetland Networks in the Landscape	Role of Best Management Practices in Non-point Source Pollution Control and Wetland Protection	Biogenic Gas Emissions from Peatlands: The Importance of Tropical and Sub-tropical Ecosystems (Part 1 of 3)
Moderator	Stanley Liphadzi and Harrison Pienaar	John White	Rebekah Gible	James Jawitz and Matthew Cohen	Samira Daroub	Xavier Comas
10:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
10:40	Douglas Fisher Wetlands Governance: Aligning Legal Doctrine with Biological Diversity	Susan Newman Restoring Ecosystem Function in the P-Enriched Everglades: Creating an Alternate Regime	Jon Wallace The Integration of Science and Fire Management at the Loxahatchee National Wildlife Refuge	Georgia Destouni Hydro-Biogeochemical and Environmental-Management Functions of Wetland Networks in Landscapes	Patrick Bohlen Wetlands as a Key to Water Quality Best Management Practices on Florida Ranchlands	Len Scinto Carbon Budget Estimation from Everglades Tree Islands: Balancing Soil Accretion and CO2 Efflux
11:00	Wei-Ta Fang County-based Governance of Participatory Restoration and Survey for Wetlands in Taiwan	ShiLi Miao Processes and Dynamics of Ecosystem Recovery in Nutrient-Enriched Everglades after Phosphorus Load Reduction	Lisa Jameson Invasive Plant Management Strategies: Integrating Science and Monitoring	Irena Creed Towards an Index of Hydrological Integrity for Wetland Dominated Landscapes	Timothy Lang Improving the Effectiveness of BMPs in the Everglades Agricultural Area	David Sumner Carbon Fluxes at a Sub-tropical Peat Marsh in Florida
11:20	Michelle Stevens Equitable Water Rights: A Holistic Perspective on Eco-cultural Restoration to Sustain Biodiversity, Ecosystem Functions, and Social Justice in the Tigris Euphrates Watershed	Barry Rosen Cyanobacteria Species from Florida Everglades Floc	Marcie Kapsch Integrating Current Research into Management Decisions at the Arthur R. Marshall Loxahatchee National Wildlife Refuge	Ge Sun The Role of Wetlands in Regulating the Hydrology and Biogeochemical Cycling in Headwater Watersheds, Southeastern United States	Kelly Morgan Selection of Soil Test Phosphorus Extractant and Index for Calcareous Soils	Scott Winton Greenhouse Gas Emissions Dynamics in Response to Organic Matter Amendment in a Created Wetland in Southeastern Virginia, USA
11:40	David Lindley Moving beyond Legal Compliance to Self Control: Change Orientated Learning for Wetland Sustainability Practices	Michael Waldon Total Phosphorus Calibration of the Simple Refuge Screening Model Version 4 Using Optimization	Laura Brandt Trends in Alligator Body Condition in Relation to Hydrology in Arthur R. Marshall Loxahatchee National Wildlife Refuge, Florida USA	Nandita Basu Hydrologic Connectivity of Drained Wetlands in Iowa's Prairie Pothole Landscape	Amy Smith The Effect of Hydraulic Retention Time and Flow Path on Nitrate and Atrazine Attenuation in a Bioretention Swale	Susana Flecha Spatio-temporal Distribution of Air-water CO2 Exchange in Doñana Wetlands (Spain)
12:00 - 1:30	Lunch (Pavilion)					

Wednesday, June 6, 2012						
10:30 - 12:00	Concurrent Sessions					
	79	80	81	82	83	84
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	Symposium on Plant Ecophysiology in Wetlands	Self-organized Landscapes: Tree Islands (Part 1 of 3)	Sediment Elevation Table (SET): Salt Marsh Monitoring - Implementation, Use and Results	Fire: Shaping Wetlands from Nutrients to Wildlife (Part 3 of 4)	Advanced Remote Sensing I: Wetland Mapping (Part 1 of 3)	Large Scale Ecosystems: Planning, Policy and Assessment
Moderator	Pia Parolin & Cátia Nunes da Cunha	Vic Engel	Alice Benzecry and Ellen Kracauer Hartig	Louise Venne	John Jones	Dave Tipple
10:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
10:40	Lindsey Meyers Above and Below Ground Nutrient Cycling in Northern Prairie Wetlands	Paolo D'Odorico Tree Islands: Landforms and Underlying Biotic Feedbacks	Donald Cahoon An Approach for Estimating Salt Marsh Resilience to Sea-level Rise	Thomas Gorman Can Shrub Removal or Fire Restore Amphibian Habitat in Fire-suppressed Pine Flatwoods Wetlands?	Laura Bourgeau-Chavez Mapping Coastal Great Lakes Wetlands and Adjacent Land Use through Hybrid Optical-infrared and Radar Image Classification Techniques	Jeff Trulick Forecasting in Large Scale Restoration Planning
11:00	La Toya Kissoon Plant Community Composition and Biogeochemistry of Clear and Turbid Shallow Lakes	Pamela Sullivan Transpiration as a Hydrologic Driver of Ion and Mineral Accumulation on Tree Islands	Denise Reed Measuring Marsh Surface Elevation Change: Patterns and Processes, Trends and Timing	Louise Venne Fire Effects on Wading Bird Foraging Habitat and Resources	Jennifer Corcoran Incorporating Data from Several Remotely Sensed Platforms to Map Current and Potentially Restorable Wetlands	Ken Ammon Governmental Laws, Rules and Policies, Are They Keeping Up With Restoration Objectives
11:20	Nina Menichino Plant Species Response to the Restoration of Degraded Fens in North-West Wales	Terence McCarthy Autogenous Development of Habitat Heterogeneity in the Okavango Delta, Northern Botswana	James Lynch Development of Sampling Protocols for the Surface Elevation Table	Ann Foster Patterns in Fire- The Recorded History of Fire in Everglades National Park and Big Cypress National Preserve	Daniel Gann Evaluation of WorldView-2 and Landsat Data to Differentiate and Map Freshwater Marsh Plant Communities at Different Spatial Scales for Two Everglades Landscapes	Alyssa Dausman Supporting Gulf of Mexico Restoration: Issues, Challenges, and Solutions Identified by the Gulf Coast Ecosystem Restoration Task Force Science Coordination Team
11:40	Pia Parolin & Catia Nunes da Cunha Plant Ecophysiology in Tropical Freshwater Wetlands of Three Continents	Michael Ross Biogeography of Tropical Hardwood Forests in South Florida: Evidence for Self-organization?	PANEL: Getting the Most from Surface Elevation Table-Marker Horizon Installations: Alice Benzecry, Leah Beckett, Donald Cahoon, Ellen Kracauer Hartig, Danielle Kreeger, James Lynch, Beth Middleton, Denise Reed, and Charles Roman	Pablo Ruiz Mapping and Assessing Tree Island Fire Damage & Recovery within the Short-Hydroperiod Marl Prairie Grasslands of the Everglades	Megan Lang LiDAR Intensity and Elevation Data to Infer Forested Wetland Extent and Function	Craig Mallison Habitat Monitoring and Assessment in Large Wetland Systems
12:00 - 1:30	Lunch (Pavilion)					

Wednesday, June 6, 2012						
1:30 - 3:00	Concurrent Sessions					
	85	86	87	88	89	90
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	Governing Across Boundaries: Learning from Experience (Panel 1)	The SWSPCP CODE OF ETHICS: Code Compliance as a Working Professional (Part 1 of 2)	Climatic Events, Climate & Sea Level Rise	Wetland Hydrology: Criterion and Assessment (Part 1 of 2)	Invasive Plants-Phragmites	Biogenic Gas Emissions from Peatlands: The Importance of Tropical and Sub-tropical Ecosystems (Part 2 of 3)
Moderator	Lynn Scarlett	James Perry	Robert Johnson	Chris Noble	Doug Wilcox	Vic Engel
1:30	Session Overview	Session Overview (20 min)	Session Overview	Session Overview	Session Overview	Introduction
1:40	Shannon Estenoz Roy Stein John Hankinson 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?	Trainer: Royal Gardner "Hired Gun or Objective Scientist? Ethical Dilemmas for the Professional Wetland Scientist, Consultant, and Regulator" (40 minutes)	Marisa Schönfeldt Effects of Raised Temperature and Northward Species Migration on Experimental Tidal Freshwater Marsh Communities from European and North American Estuaries	Chris Noble Methods of Interpreting Hydrologic Data	Franziska Eller Cryptic Invasion in a Changed Climate – Ecophysiology and Gene Expression of Common Reed from the US Gulf Coast	William Wright Autonomous Ground Penetrating Radar (GPR) Measurements for Exploring Temporal Dynamics in Biogenic Gas Releases from Peat Soils in the Florida Everglades
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 <i>Phragmites australis</i> 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 <i>Phragmites australis</i> 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
3:00 - 3:30	Break (Caribbean Ballroom)					

Wednesday, June 6, 2012						
1:30 -3:00	Concurrent Sessions					
	91	92	93	94	95	96
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	Wetland Restoration	Self-organized Landscapes: Freshwater Peatlands (Part 2 of 3)	Wetland Fauna	Fire: Shaping Wetlands from Nutrients to Wildlife (Part 4 of 4)	Advanced Remote Sensing II: RADAR for Water & Biomass (Part 2 of 3)	Emerging Issues in Wetland Restoration in the Peoples Republic of China (Part 1 of 2)
Moderator	Susan Galatowisch	Mike Ross	Colleen Charles	Todd Osborne	John Jones	Kevin Erwin
1:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
1:40	Ondrea Hummel Wetland Restoration and Monitoring in the Southwest	Maarten Eppinga aMazing Pattern: Self-organization in Northern Peatland Ecosystems	Louise Alexander Using Qualitative Frameworks and Quantitative Tools to Optimize Shorebird Habitat at Cabo Rojo Wildlife Refuge, Puerto Rico	Tom Smith Fire, Water, Soil and Sea Level Influence the Position of Mangrove – Marsh Ecotones Through Time	Shimon Wdowinski Suitability of the New Generation of SAR Satellites to the Wetland InSAR Application	Manyin Zhang Restoration of Sand Mined Wetlands in the Wild Duck Lake Natural Reserve, Beijing: Approaches and Evaluation
2:00	Suzanne Bayley Northern Prairie Wetland Assessment at Multiple Spatial Scales	Yiwei Cheng Exogenous and Endogenous Controls Impact Evolution and Resilience of Wetland Vegetation Patterns	Jennifer Rehage Seasonal Hydrology Drives Predator and Prey Co-occurrence along a Marsh-Mangrove Ecotone: Implications across Ecological Scales	Michael Duever A Successional Model for Restoration and Management of South Florida Plant Communities	C.K. Shum High-resolution Wetland Water Level Monitoring Towards Everglades Restoration Integrating Synthetic Aperture Radar Interferometry and Satellite Radar Altimetry	Xingzhong Yuan The Littoral Zone of the Three Gorges Reservoir: Challenges and Opportunities
2:20	Gretchen Ehlinger Sustainability of Long-term Monitoring for Large Scale Ecosystem Restoration	Laurel Larsen Sediment Redistribution and Accretion Feedbacks: Drivers of Landscape Pattern, Process, and Restoration Potential in Wetlands Worldwide	Melissa DeSa A Novel Method For Camera Trapping Small Mammals In Irregularly Flooded Marsh Environments	Michael Duever A Transitional Fire Model for Restoration and Management of Natural South Florida Plant Communities	Hyonki Lee Integrated Analysis of Interferometric SAR, Satellite Altimetry and Hydraulic Modeling to Quantify Louisiana Wetland Dynamics	Yuechen Li A Summary of Existing Wetland Research on the Three Gorges Reservoir Area
2:40	Mark Cook Restoring Ecosystem Function in the P-Enriched Everglades: Improving Habitat for Wildlife	James Heffernan Discharge Competence as a Mechanism for Peatland Pattern Formation	Michael Flaxman Considering Climate Change in State Wildlife Action Planning for Florida	Rick Anderson The River of Fire; Fire Management in the Modern Everglades	Emanuelle Feliciano Biomass Estimation in the Everglades using Synthetic Aperture Radar and Ground-based LiDAR	Xingzhong Yuan 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
3:00 - 3:30	Break (Caribbean Ballroom)					

Wednesday, June 6, 2012						
3:30 -5:00	Concurrent Sessions					
	97	98	99	100	101	102
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	Coastal Sustainability: Structures and Processes for Linking Science and Decision Making (Panel 2)	The SWSPCP CODE OF ETHICS: Code Compliance as a Working Professional (Part 2 of 2)	Wildlife, Exotics & Restoration	Wetland Hydrology: Methods for Assessment (Part 2 of 2)	Constructed Wetlands	Biogenic Gas Emissions from Peatlands: The Importance of Tropical and Sub-tropical Ecosystems (Part 3 of 3)
Moderator	Lynn Scarlett	James Perry	Patrick Pitts	Wayne Skaggs	Mark Clark	Boone Kauffman
3:30	Session Overview	Trainer and Moderator	Session Overview	Session Overview	Session Overview	Session Overview
3:40	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	Reconvene Training Session Recap Case Studies Presented in First Session and Note Key Points for Contemplation (15 minutes)	Alicia LoGalbo Assessing Woodstork Abundance and Alligator Nesting Trends in Everglades National Park using Generalized Additive Modeling	Zhaohua Dai Application of the MIKE SHE Model to Assess the Hydrologic Criteria for Defining Wetlands in the Lower Coastal Plain	James Bays Advances in the Use of Passive Wetland Systems for Selenium Treatment of Mine-Impacted Water	Tiffany Troxler Soil, Water and Course Woody Debris Respiration Fluxes and Dissolved Aqueous CO ₂ in a Tidal Mangrove Forest in the Everglades
4:00	processes, drawing on examples from the Great Lakes and the Everglades. Dialogue Among Panel 1 and Panel 2	Additional Case Studies and Audience Participation - Session will Close with Audience Question/Answer Forum (75 minutes)	Jed Redwine Assessing the Condition of Exotic Plant Species in Big Cypress National Preserve and Everglades National Park	Bill Hunt Threshold Simulation Method for Determining Wetland Hydrologic Status	John O'Meara Sub-surface Flow Wetlands – Constructed Wastewater Treatment System	Jose Fuentes Influences of Cold Air Masses on Trace Gas Exchange between Mangroves and the Atmosphere
4:20	The science panel is joined by participants from the governance panel for a 45-minute facilitated dialogue on opportunities and challenges, within		Jason Lauritsen Targeted Ecological Restoration through Shallow Wetland Mitigation Banking with Wood Stork Benefits	Tom Williams Testing Wetland Hydrology Criteria Modeling with Long Term Water Table Data	William Walton Designing Constructed Wetlands to Reduce Mosquito Production: Alternative Emergent Macrophytes	Serena Moseman-Valtierra Dynamic Hotspots of Nitrous Oxide and Methane in Coastal Marshes: Responses to Two Long-term Fertilization
4:40	contexts of coastal and wetland restoration, enhancement and protection, of coordinating decisions across agencies, linking issues, and generating information relevant to decision making.		Ann Commagere Hijuelos Fish Use of Canals as Dry-Season Refuges in a Seasonally Variable Freshwater Wetland	George (Chip) Chescheir Evaluating Methods for Determining Whether a Site Meets Wetland Hydrology Criteria	ML Robinson Using Constructed Wetlands for Recycling Waste Water to Protect Surface and Ground Water	Jianwu Tang CO ₂ and N ₂ O Fluxes from Coastal Wetlands: Is There any Difference between Wetlands and Uplands?
5:00 - 7:00	Evening on Own					

Wednesday, June 6, 2012						
3:30 -5:00	Concurrent Sessions					
	103	104	105	106	107	108
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	Blue Carbon Green Opportunities (Part 1 of 4)	Self-organized Landscapes: Coastal Wetlands (Part 3 of 3)	Forested Wetlands	Water Quality - Phosphorus	Advanced Remote Sensing III: Monitoring (Part 3 of 3)	Emerging Issues in Wetland Restoration in the Peoples Republic of China (Part 2 of 2)
Moderator	Ariana Sutton-Grier	Rene Price	Dale Knapp	Kevin Grace	John Jones	Kevin Erwin
3:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
3:40	Steve Crooks The Rapidly Evolving Science of Coastal Blue Carbon- What's Known and What do We Want to Know?	Mark Humphries Chemical Sedimentation, Peat Formation and Development of a Palaeoenvironmental Record for the Subtropical Coastal Plain of Maputaland, South Africa	William Conner Tree Growth Response Across an Hydrological Gradient at Four Holes Swamp, South Carolina	Forrest Dierberg Phosphorus Removal Performance and Sustainability of a Submerged Aquatic Vegetation-Dominated Constructed Wetland for Everglades (USA) Restoration	John Kovacs Evaluating Radar Sensors for Retrieving Mangrove Biophysical Parameters of both Pristine and Degraded Forests	Martin Willison Eco-economic Aspects of a Dike-pond Project in the Drawdown Zone of the Three Gorges Reservoir
4:00	Emily Pidgeon Blue Carbon: a Transformational Tool for Marine Management and Conservation Globally	Daehyun Kim Biogeomorphic Feedbacks Drive Dynamics of Vegetation-Landform Complex in a Coastal Riparian System	Juan Carlos Montero Floristic Variation across 600 km of Inundation Forests along the Rio Negro	Craig Duxbury Long-term Dynamics of Nitrogen and Phosphorus Concentrations in Waters of a Restored Forested Wetland	Greg Koeln Monitoring Wetland Changes Using Multitemporal Landsat Change Detection, Web Mapping Services, and Crowd Sourcing	Martin Willison Potential for Wetland Restoration in the Drawdown Zone of Hanfeng Lake, Chongqing, China
4:20	David Gordon Green Payments for Blue Carbon: Economic Incentives for Protecting Threatened Coastal Habitats	Loretta Battaglia Use of Assisted Migration and Community Zonation Patterns to Build a Climate-resilient Coastal Landscape	Maguy Dulormne Early Growth Performances of the Swamp-forest Tree <i>Pterocarpus officinalis</i> Regarding Soil and Light Conditions	Richard James Water, Ion and Phosphorus Budgets of a Periphyton-based Stormwater Treatment Area	R. Eugene Turner Twenty-Six Years of Changing Vegetative Cover and Marsh Area	Kevin Erwin A Proposal for Developing an Integrated Master Plan in the Three Gorges Reservoir Eco-region
4:40	Discussion	Johan van de Koppel Do Local Interactions or the Landscape Determine Spatial Self-organization in Wetland Ecosystems?	Maria Teresa Fernandez Piedade Wetlands of the Brazilian Amazon: Extent and Recent Issues and Concerns on their Protection	Murakami Kazuo Nitrogen and Phosphorus Cycles in Constructed Tidal Flat in Tokyo Bay	Mon-Shieh Yang - Coastal Wetland Monitoring by High-Resolution Satellite Imagery	Yan Lan The Purification Effect of Reed-Dominated Raised Fields in a Freshwater Wetland in Northern China
5:00 - 7:00	Evening on Own					

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	
8:00 - 6:00	Registration Opens (Grand Sierra Ballroom A)
8:00 - 6:00	Exhibits & Posters on Display (Caribbean Ballroom)
8:00 - 6:00	Internet Café Open (Caribbean Ballroom)
8:00 - 9:00	Morning Refreshments (Caribbean Ballroom)
09:00 - 10:00	<p>Plenary Session <i>Climate Change</i></p> <p><u>Moderator:</u> K. Ramesh Reddy</p> <p><u>Plenary Speakers:</u></p> <p>Stefan Rahmstorf, <i>Potsdam University, Germany</i> "The Climate Crisis"</p> <p>Tom Armstrong, <i>United States Global Change Research Program, USA</i> "The U.S. Global Change Research Program: Thirteen Agencies, One Vision"</p> <p>(Grand Sierra Ballroom D&E)</p>
10:00 - 10:30	Break (Caribbean Ballroom)

Thursday, June 7, 2012						
10:30 - 12:00	Concurrent Sessions					
	109	110	111	112	113	114
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	Science of Blue Carbon (Part 2 of 4)	Water, Climate and Landscapes of the Greater Everglades	Wetland Assessment, Regulation & Mitigation	The Role of Flow and Hydrologic Connectivity in Floodplain and Wetlands Ecosystems (Part 1 of 3)	Phosphorus - The Ultimate Limiting Element – from Cells to Communities (Part 1 of 2)	Wetland Restoration and Conservation
Moderator	Pat Megonigal	Carol Mitchell	Syed Khalil	Laurel Larsen	P.V. Sundareshwar	Jim Bays
10:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
10:40	Jim Morris Forecasting Blue Carbon in Tidal Marshes: The Balance between Carbon Sequestration and Methane Emissions	Dianna Hogan Estimating the Cumulative Ecological Effect of Local Scale Landscape Changes in South Florida	Maria Vandergragt Great Barrier Reef Catchment: Wetland Risk Assessment	Dorothy Merritts Widespread 18th-20th c. Burial of Holocene Wet Meadows in the Mid-Atlantic Region, USA, and their Restoration Potential	James Cotner Just How Much Phosphorus does a Bacterium Need?	John Callaway Sediment Dynamics in Restored Tidal Wetlands of San Francisco Bay
11:00	Lisa Schile Modeling Sea-level Rise Effects on Tidal Wetland Distribution in the San Francisco Bay Estuary	Kevin Kotun Effect of Water Management on Water Supply to Everglades National Park: 1940 to 2010	Jimmy Sellers Palmer Point Park: A Wetland Restoration Design Limited by Site and Stakeholder Conditions	William Hilgartner Millennial Pre-settlement Stability of Sedge Meadow Habitats in Two Piedmont River Valleys	Benjamin Turner Cryptic Phosphorus in the Environment: Composition, Behavior, and Ecological Significance	Rebecca Rooney Wetland Loss and Degradation: The Hidden Costs of Ethical Oil
11:20	Boone Kauffman Exceptionally High Carbon Stocks of Mangroves and their Potential Conservation through Global Carbon Markets	Erik Stabenau Water Budget, Climate Variability, and Predicting Salinity for Eastern Florida Bay	Ralph Tiner Landscape-level Functional Assessment Using Enhanced Wetland Geospatial Data	Cliff Hupp Sedimentation Patterns on the Restored Reach of the Kissimmee River Floodplain	Charlotte Jørgensen Phosphorus Composition and Reactivity in Outflow Water from Constructed Wetlands	Petter Hedberg Restoring Functional Diversity in Rich Fens by Tree Cutting and Ditch-Blocking
11:40	Jim Fourqurean Blue Carbon Stored in the Seagrass Beds of the World	Lydia Stefanova Climate Means, Trends and Extremes in the Everglades: Historical Data and Future Projections	Lee Weishar The Design for the Wetland Restoration of a Freshwater Cranberry Bog in New England	Nathan Jones The Role of River-Floodplain Connectivity in Nutrient Removal	P. V. Sundareshwar Does Phosphorus Status in Spartina Alterniflora Regulate Oxidized Rhizosphere?	Kevin Hedge Environmental Compliance and Ecological Restoration with Floating Wetland Islands
12:00 - 1:30	Lunch (Pavilion)					

Thursday, June 7, 2012						
10:30 - 12:00	Concurrent Sessions					
	115	116	117	118	119	120
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	Salinization of Freshwater Wetlands (Part 1 of 3)	Mitigating and Adapting to Global Sea Level Rise in the Gulf of Mexico	The Hydroecology of a Florida River and the Potential Ecological Effects of Human Water Use (Part 1 of 2)	Planning & Implementing Large Scale Ecosystems	Nutrient Cycling - Floodplain Lakes and Streams	Stormwater Wetlands - Design and Performance
Moderator	Scott Neubauer	Valsin Marmillion	Edgar Lowe	Scott Phillips	Jan Vymazal	Bill Hunt & Margaret Greenway
10:30	Session Overview	Session Overview	Session Overview	Introduction & Overview	Session Overview	Session Overview
10:40	Leon Lamers Salinity Changes Biogeochemistry and Ecosystem Functioning; on the Roles of Sodium Chloride, Sulfate, and Nutrients	Sidney Coffee Addressing Growing Vulnerabilities in the Wake of Coastal Land Loss and Degrading Landscapes that Threaten Coastal and Indigenous Cultures	Edgar Lowe General Method for Evaluating Potential Ecological Effects of Altered Hydrologic Regimes	John Marshall Streamlining Central Everglades Project Planning (CEPP) Using CERP Adaptive Management Protocols	Frank Marshall Biscayne Bay Nutrient Loads and Water Quality Box Model	Margaret Greenway Macrophyte Zonation and Sustainability in Stormwater Wetlands in Subtropical Eastern Australia: Design and Function
11:00	Amy Burgin How Does Saltwater Intrusion Alter Anaerobic Microbial Metabolism in a Freshwater Wetland?	Valsin Marmillion 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	Lawrence Keenan Hydroperiod Effects on Annual Release Rates of N, P, and DOC in a Floodplain Wetland	Mitchell Griffin "Getting the Water Right," Practical Experience in Large-Scale Wetlands Restoration	Ni-Bin Chang Floating Wetland for Nutrient Removal in a Stormwater Infiltration Basin	Bridget Wadzuk Constructed Stormwater Wetlands: Design and Function
11:20	Ashley Helton Simulating the Influence of Saltwater Intrusion on Coupled Element Cycles in Coastal Plain Wetlands	Sidney Coffee A Review of the Research Process - Including Interviews, Focus Groups and Forums held in 11 Cities in Four Gulf States	Michael Coveney Relationships between Residence Time and Cyanobacterial Blooms in a Nutrient-Rich River System	Eric Cline Implementation and Operation of an Everglades Physical Model: The Loxahatchee Impoundment Landscape Assessment (LILA)	Medina Kadiri Water Quality Assessment in the Eastern Niger Delta Region of Nigeria	Jon Hathaway Indicator Bacteria Sequestration in Stormwater Wetlands
11:40	Valerie Schoepfer The Effect of Saltwater Intrusion on Coupled Iron and Sulfur Cycling in a Coastal Freshwater Wetland	Valsin Marmillion Presentation on Findings of the 11 Forums and What Solutions all Four States can Agree upon to Make the Gulf Coast more Resilient	Dean Dobberfuhr Impacts to Submerged Aquatic Vegetation Associated with Hydrologic Changes in the St. Johns River Estuary, Florida	B.J. Bukata Assessing Hydroperiod Restoration Alternatives in Flatford Swamp, Florida	Matthew Cohen Nutrient Spiraling in a Bottomland Sub-Tropical Stream	William Hunt Constructed Wetlands versus Ponds for Stormwater Management: a Framework for Ecosystem Services Assessment
12:00 - 1:30	Lunch (Pavilion)					

9th INTECOL: International Wetlands Conference

Thursday, June 7, 2012						
1:30 - 3:00	Concurrent Sessions					
	121	122	123	124	125	126
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	Policy, Economics, and Management of Blue Carbon (Part 3 of 4)	Extreme Events	Ecosystem Restoration Program Management and Large-Scale Project Implementation (GEER)	The Role of Flow and Hydrologic Connectivity in Floodplain and Wetlands Ecosystems (Part 2 of 3)	Phosphorus - The Ultimate Limiting Element – from Cells to Communities (Part 2 of 2)	Methane Dynamics in Peatland Ecosystems (Part 1 of 2)
Moderator	Steve Emmett-Mattox	Cheryl Ulrich	Brian Files	Laurel Larsen	P.V. Sundareshwar	Jason Keller and Scott Bridgman
1:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
1:40	Rich Ambrose Incorporating Carbon Management for Climate Change Mitigation into Coastal Management Planning	Erin Kinney Effects of Drought on Restored and Reference Brackish Marshes in the Northwestern Gulf of Mexico	Eric Bush Managing Implementation of a Multi-Decadal Ecosystem Restoration Program	Jud Harvey Field Flumes to Floodplains: Revealing the Influence of Flow Dynamics and Flood Pulses in Structuring River and Wetland Ecosystems	James Elser Uncertain Supplies, Shifting Demands, and the Sustainability of the Human Phosphorus Cycle	Scott Bridgman Controls Over Anaerobic Carbon Cycling and Methane Production in Peatlands
2:00	Igino Emmer Creating a Blue Carbon Asset under the Verified Carbon Standard	Andrew Tweel Historical Analysis of Wetland Sedimentation from Tropical Cyclones in Coastal Louisiana	Barbara Cintron Ten years of CERP: Idealism, Confusion, Recession, Reality. A history of the Ups and Downs of Everglades Restoration	David Kaplan Hydrologic Processes in a Patterned Peatland	Thad Scott Toward Sustainable Phosphorus Management in the Anthropocene: Quantifying Potentially Recyclable Pools and Fluxes in the Landscape	Mark Hines Trophic Status and Methanogenesis in Peatlands
2:20	Ariana Sutton-Grier Leveraging Carbon Services for Habitat Conservation: NOAA's Blue Carbon Interests	Scott Jackson Tropical Storm Impacts to Everglades Stormwater Treatment Area Submerged Aquatic Vegetation Communities	Ken Ammon The C-111 Spreader Canal Project: A Unique Example of Public Involvement and Adaptive Management	Benjamin Branoff Water Residence Time and Nitrogen Loss in a Louisiana Delta: A Modeling Approach	Santiago Clerici Phosphorus Cycling in a Settlement Pond of a Treatment Wetland	Jason Keller The Role of Humic Substances as Terminal Electron Acceptors in Peatland Decomposition
2:40	Discussion	Edward Schenk Sedimentation Patterns within the Atchafalaya Basin and Morganza Spillway Before and After the Lower Mississippi Flood of 2011	Brooke Ahrens Repackaging Is Not as Simple as it Seems: Lessons Learned on the C-44 Project	Angelo Antonio Agostinho Long Term Ecological Research in the Upper Parana River Floodplain, Brazil: Main Patterns and Variations	Margaret Greenway Media and Plants to Optimise Phosphorus Removal and Carbon Sequestration in Sub-surface Flow Constructed Wetlands	Malak Tfaily Understanding Anaerobic C Dynamics and Methane Production in Peatlands through Molecular Characterization of Porewater DOM Reactivity: Oxygen Shedding by DOM during Fermentation
3:00 - 3:30	Break (Caribbean Ballroom)					

Thursday, June 7, 2012						
1:30 -3:00	Concurrent Sessions					
	127	128	129	130	131	132
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	Salinization of Freshwater Wetlands (Part 2 of 3)	Amazonian Wetlands	The Hydroecology of a Florida River and the Potential Ecological Effects of Human Water Use (Part 2 of 2)	Predicting the Future of Coastal Louisiana I: Effects of Tides and Storms (Part 1 of 2)	Wetland Ecosystem Services in a Complex and Changing World (Part 1 of 2)	Urban Wetlands
Moderator	Amy Burgin	Robert Twilley	Edgar Lowe	Denise Reed	Edward Maltby	Dan Childers
1:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
1:40	Scott Neubauer Saltwater Intrusion into Tidal Freshwater Marshes Drives Shifts at all Levels of Ecosystem Organization	Thiago Sanna Freire Silva Remote Sensing of Large Wetlands: Capturing the Spatial and Temporal Dynamics of the Amazon Floodplain	Robert Mattson Responses of Estuarine Benthic Macroinvertebrate Communities to Changing River Flows in the St. Johns River Estuary, Florida, USA	Ehab Meselhe Eco-Hydrology Modeling in Coastal Louisiana to Assess Project Effects on the Landscape	Richard Lowrance Bringing Together Science and Policy to Protect and Enhance Wetland Ecosystem Services in Agricultural Landscapes: Results of the OECD Workshop	Aaron Mills Microbial Processes in Constructed Tidal Wetlands for Removal of Nitrogen from Urban Wastewaters
2:00	Peter Gell The Impact of Changing Salinity on Aquatic Ecosystems: Why the Last Page only Tells Part of the Story	Florian Wittmann Flood-induced Endemism in Amazonian Floodplain Trees	Palmer Kinser Hydrology and the Distribution of Floodplain Plant Communities of the Upper St. Johns River, Florida	Dallon Weathers Short-term Modeling of Coastal Response to Wave Climate and Relative Sea Level Rise	Tomasz Okrusko Ecosystem Services of European Wetlands – Overview of Current Situation and Future Perspectives	Rebecca Heintzmann Contrasting Urban and Natural Wetlands in South-Central New York
2:20	Marcelo Ardon Saltwater Intrusion Alters Nitrogen and Carbon Export from a Restored Coastal Plain Wetland (North Carolina, USA)	Jochen Schöngart Ancient trees in Amazonian Floodplains: Implications for Tropical Forest Ecology and Climate Change	Steve Miller Predicting Freshwater Inflow Effects on Estuarine Fishes in the St. Johns River, Florida	Hugh Roberts Storm Surge and Wave Modeling for Prioritization of Louisiana Coastal Restoration and Protection Projects	Ed Maltby Wetland Ecosystem Services – Findings from UK National Ecosystem Assessment and Relevance to US	Greg Noe Nutrient and Sediment Cycling and Retention in Urban Floodplain Wetlands
2:40	Ellen Herbert Predicting the Impacts of Saltwater Intrusion on Ecosystem Dynamics in Tidal Freshwater Floodplain Forests in Coastal Georgia, USA	Eliane Silva Batista The Climate-Tree Growth Relation in Central Amazonian Black-Water (igapó) Floodplain Forests		Jordan Fischbach Applying the Coastal Louisiana Risk Assessment Model to Assess Long-Term Benefits from Flood Risk Reduction Projects	Edward Richards The Challenge of Steady State Coastal Law in the Time of Rising Oceans	Ann Redmond Bank On It: Mitigation and the Restoration of Ecosystem Services to Urbanizing Watersheds
3:00 - 3:30	Break (Caribbean Ballroom)					

Thursday, June 7, 2012						
3:30 -5:00	Concurrent Sessions					
	133	134	135	136	137	138
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	Blue Carbon Projects (Part 4 of 4)	Dynamic of Coastal Wetlands	Ecosystem Restoration Program Management and Large-Scale Project Implementation (Non-GEER)	The Role of Flow and Hydrologic Connectivity in Floodplain and Wetlands Ecosystems (Part 3 of 3)	Emerging Contaminants	Methane Dynamics in Peatland Ecosystems (Part 2 of 2)
Moderator	Pat Megonigal	Robert Daoust	Tom St. Clair	Laurel Larsen	Chris Warn	Jason Keller and Scott Bridgham
3:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
3:40	Brian Needelman Carbon Crediting for Tidal Marshes: Projects in Maryland	G. Lynn Wingard Linking Wetlands Hydrology to Estuarine Salinity in the Everglades: Integrated Solutions to Establish Restoration Targets	Tom St. Clair Comparison of Everglades Restoration with Other Large-scale Ecosystem Restoration Programs in the United States	Colin Saunders A Physical Model of Flow Reconnection to Achieve Ecological Restoration in the Everglades	Xiaoe Yang Enhanced Constructed Wetland Technologies for Controlling and Remediating Water Eutrophication	Elizabeth Corbett An Isotope Mass Balance Approach to Distinguishing Sources of CO ₂ Production in Northern Minnesota Peatlands
4:00	Brian Bergamaschi A Wetland Carbon Biosequestration Demonstration Project in the Sacramento-San Joaquin Delta, California, USA- Wetland Carbon Farming	David Rudnick Restoration of the Everglades' Saline Wetlands and Florida Bay: Responses Driven from Land and Sea	Neil Saintilan Restoration of Significant Wetlands in Interior New South Wales: Co-ordinating Science, On-ground Works and Water Delivery	David Ho Resolving Kilometer-scale Flow Patterns in the Everglades Using SF ₆ Tracer Release Experiments: Implications for Habitat Restoration	La Daana Kada Kanhai Polycyclic Aromatic Hydrocarbon (PAH) Contamination in the Caroni Swamp, Trinidad, West Indies	Paul Bodelier The Role of Microbial Diversity and Traits in Methane Cycling in Wetlands
4:20	Curt Richardson Carbon Sequestration in Coastal Freshwater Peatlands: A Market Credit Tool for Restoration	Pat Dale Why are Mangroves Expanding into Saltmarshes in Eastern Australia?	Mark McElroy Large-Scale Search for Tidal Mitigation Sites on the Elizabeth River, Virginia	Cristina Poindexter Transport Across the Air-water Interface with Emergent Vegetation	Ahmed Hamadeh Removal of Pharmaceutical Compounds by Constructed Wetlands Under Different Redox Conditions	Varun Gupta Anaerobic Oxidation of Methane in Northern Peatlands
4:40	Alison Leschen Carbon Management in Coastal Wetlands: A Collaborative Approach to Quantifying GHG Flux to Support Development of a GHG Protocol and Economic Assessment	Theresa Strazisar Seagrasses in Variable Environments: The Importance of Life History in Controlling <i>Ruppia maritima</i> at the Everglades-Florida Bay Ecotone	Fuxing Zou Engineering-Oriented Plantation and Mechanical Harvesting of Aquatic Plants in Water Body Restoration Engineering	Pamela Telis Revisions to the Everglades Depth Estimation Network (EDEN) Surface-water Model	Dong Qing Zhang Pharmaceutical Removal in Tropical Subsurface Flow Constructed Wetlands	Merritt Turetsky Effects of Permafrost Thaw on Northern Peatland Methane Emissions
5:00 - 7:00	Reception and Interactive Poster Presentations Session II (Caribbean Ballroom)					

Thursday, June 7, 2012						
3:30 -5:00	Concurrent Sessions					
	139	140	141	142	143	144
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	Salinization of Freshwater Wetlands (Part 3 of 3)	Restoration, Mitigation & Policy	The Hydroecology of Rivers and the Potential Ecological Effects of Human Water Use	Predicting the Future of Coastal Louisiana II: Biological Response (Part 2 of 2)	Wetland Ecosystem Services in a Complex and Changing World (Part 2 of 2)	Urban Wetlands for a Sustainable Water Quality
Moderator	Scott Neubauer	Patrick Hunt	Edgar Lowe	Carol Parsons Richards	Edward Maltby	Jos Verhoeven
3:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
3:40	Nathaniel Weston Response of Tidal Freshwater Marsh Plant and Microbial Communities in the Delaware River Estuary to Sea-Level Rise and Salt-Water Intrusion	Gary Milano Integration of Habitat Heterogeneity and Cost-effective Restoration Techniques and Strategies into Innovative Large-scale Wetlands Restoration Efforts in South Florida Urban Areas	Edgar Lowe Variable Responses of Ecological Attributes and Drivers to Hydrologic Alteration in the St. Johns River, Florida	Greg Steyer Spatial Modeling of Land Change and Relative Elevation to Assess Restoration Priorities in Coastal Louisiana	Denice Wardrop Translating Condition Assessment Data to Ecosystem Services: Is There an App for That?	Jan Vymazal Application of Wetlands for Nutrient Polishing in Urban Environments
4:00	Kristine Hopfensperger Plant Chemistry in a Freshwater Wetland Experiencing Salt Water Intrusion	Greg Quartucci Indiana Toll Road Mitigation, Urban Restoration in Gary, Indiana	John White Diverted Mississippi River Sediment as a Potential Phosphorus Source to Louisiana Coastal Wetland Systems	Jenneke Visser Forecasting Vegetation Changes in Coastal Louisiana	Rene Dommoin Climate Change and Peatlands in the SE-Asian Tropics	Gwenaël Imfeld Mitigation of Pesticides and Copper in a Stormwater Wetland Receiving Runoff from a Vineyard Catchment
4:20	Paul Boon Salinization of <i>Melaleuca</i> -dominated Wetlands of the Gippsland Lakes, Australia	Althea Hotaling Seagrass Restoration and Mitigation: Policy Change Recommendations	Eduardo Patino Water-Quality Mapping and Monitoring Efforts in the Tidal Caloosahatchee River and Downstream Estuaries	Andy Nyman Predicting the Effects of Hurricane Protection and Wetland Restoration Projects on Fish and Wildlife	Jenny Davis Enhancing Urban Wetland Biodiversity by Reducing Trade-offs Between Multiple Ecosystem Services	Ana Lima Retention of Heavy Metals and Poly-Aromatic Hydrocarbons from Road Water in a Constructed Wetland and Effect of De-icing
4:40	Whitney Kiehn Impacts of Short-term Salinity Intrusion and Post-intrusion Conditions on Oligohaline Wetland Vegetation and Soils	Stanley Liphadzi Impact of Policy Implementation on Ecosystems and Water Quality in South Africa	Eric Roy Nutrient Dynamics at the Estuarine Sediment-Water Interface during Large Pulses of High Nitrate Mississippi River Water	Denise Reed The Future of Coastal Louisiana: Expected Outcomes of Implementing the 2012 Master Plan	Panel Discussion	Dan Childers Ecosystem Services and Educational Opportunities Provided by an Aridland Urban Treatment Wetland in Phoenix AZ
5:00 - 7:00	Reception and Interactive Poster Presentations Session II (Caribbean Ballroom)					

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	
8:00 - 1:00	Registration Opens (Grand Sierra Ballroom A)
8:00 - 1:00	Exhibits & Posters on Display (Caribbean Ballroom)
8:00 - 1:00	Internet Café Open (Caribbean Ballroom)
8:00 - 9:00	Morning Refreshments (Caribbean Ballroom)
09:00 - 10:00	<p>Plenary Session <i>Wetland Conservation & Restoration</i></p> <p><u>Moderator:</u> Ben LePage</p> <p><u>Plenary Speakers:</u></p> <p>David White, <i>USDA's Natural Resource Conservation Service, USA</i> "Producers Producing Results: Voluntary Conservation Working to Restore Wetlands and Protect Landscapes Across the Country"</p> <p>Stephen Polasky, <i>University of Minnesota, USA</i> "Valuing Nature: Incorporating Ecosystem Services into Decision-Making"</p> <p>(Grand Sierra Ballroom D&E)</p>
10:00 - 10:30	Break (Caribbean Ballroom) Poster Session Two Presenters to Remove Poster Displays

9th INTECOL: International Wetlands Conference

Friday, June 8, 2012						
10:30 - 12:00	Concurrent Sessions					
	145	146	147	148	149	150
Location	Grand Sierra Ballroom B	Grand Sierra Ballroom C	Antigua 1&2	Antigua 3&4	Bonaire 1&2	Bonaire 3&4
	Wetlands in Agricultural Watersheds	Role of the Lower Mississippi River for Sustainable Ecosystem Restoration in Coastal Louisiana	Ecosystem Restoration Output—Moving Beyond Habitat Units	Climate Change Effects on Coastal Wetlands	Ecological Risk Assessment: Lessons Learned and Future Directions	Greenhouse Gases
Moderator	Curtis Richardson	Richard Raynie	Brian Files	Ilka Feller, Matthew Kimball	Chris Wilson	Jackie Batson
10:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
10:40	Francisco Comin Planning Wetland Restoration in Agricultural Watersheds	Travis Creel The Mississippi River Commission - History of the Management of the Mississippi River	Jan Mackinnon Predicting Wetland Functions at the Landscape Level for Coastal Georgia	Karen McKee The Salt Marsh-Mangrove Ecotone and Vulnerability of Subtropical Coastlines to Sea-Level Rise	Stu Kogge Wetland and Stream Restoration Techniques Following Emergency Response Actions to the Line 6B Oil Spill in Marshall, Michigan	Frank Anderson Seasonal Carbon and Energy Fluxes for Restored Wetlands in the Sacramento – San Joaquin Delta, California, USA
11:00	Dan Keesee Wetland Functions in the Texas Rice Belt	Syed Khalil Sediment Management for Coastal Restoration in Louisiana - Roles of Mississippi & Atchafalaya Rivers	Laila Racevskis Coastal Ecosystem Services and Sea Level Rise in Florida: Understanding Public Perceptions and Values	Devendra Amatya Water Table Dynamics of Hydric Soils in the Lower Coastal Plain of South Carolina	Ramona Smith Determination of the Effects of Contaminant Mixtures on Aquatic Macrophytes	Gail Chmura Do Tidal Salt Marshes Release Greenhouse Gases during the Spring Thaw?
11:20	Carol Johnston Conversion of Wetlands to Row Crops in the Prairie Pothole Region	Cherie Price The Louisiana Coastal Area, Mississippi River Hydrodynamic and Delta Management (MRHDM) Study	Timothy Barber Habitat Evaluation Scoring Method to Estimate Ecosystem Service Improvements from Restoration	Glen Coldren Competition versus Facilitation: Testing Multiple Stress Gradient Effects on Salt Marsh and Mangrove Interactions	Damien Burrows Predicting Impacts of Development and Land Use Change upon Complex Wetland Systems in Largely Undeveloped Catchments in Northern Australia	Suzanne Hodgkins Causes of Methanogenesis-Linked Climate Feedbacks in a Discontinuous Permafrost Peatland
11:40	William Crumpton Water Quality Performance of Wetlands Receiving Nonpoint Source Loads	Richard Raynie State of the Science for Multipurpose Use of the Lower Mississippi River to Achieve Sustainability	Guerry Holm An Evaluation of Coastal Restoration Projects in Louisiana for Nutrient Credit Trading in the Lower Mississippi River Basin	Charles Roman Forecasting Salt Marsh Responses to Sea Level Rise Using the Elevation Capital Concept	Weidong Wang Retention Potential of an Offline Pond-Wetland Combined System on River Water's PAHs through Superficial Sedimentation	Brianna Richards Greenhouse Gas Fluxes from Natural and Restored Wetlands in the Agricultural Midwest
12:15 - 1:00	Closing Plenary Session (Grand Sierra Ballroom D&E) Moderator: R. Eugene Turner Glenn Guntenspergen, K. Ramesh Reddy & G. Ronnie Best - <i>Closing Acknowledgements</i>					
1:00	Conference Concludes (Exhibitors and Poster Presenters Move Out)					

Friday, June 8, 2012						
10:30 - 12:00	Concurrent Sessions					
	151	152	153	154	155	156
Location	Bonaire 5&6	Bonaire 7&8	Curacao 1&2	Curacao 3&4	Curacao 5&6	Curacao 7&8
	Phosphorus Removal Performance and Sustainability of Florida's Large-Scale Surface Flow Treatment Wetlands	Wildlife in Greater Everglades and Coastal Ecosystems	Hydrology	Aquatic Habitat Restoration and Enhancement Program	Communication, Education and Outreach	Mangrove Ecology
Moderator	Forrest Dierberg	Kenneth Rice	Russ Weeks	Steve Rockwood	Heather Henkel	Dave Rudnick
10:30	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview	Session Overview
10:40	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	Bardlay Shoemaker Evapotranspiration in the Big Cypress National Preserve, Southern Florida, 2007-2010	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 - Hydrilla 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
12:15 - 1:00	Closing Plenary Session (Grand Sierra Ballroom D&E) Moderator: R. Eugene Turner Glenn Guntenspergen, K. Ramesh Reddy & G. Ronnie Best □ <i>Closing Acknowledgements</i>					
1:00	Conference Concludes (Exhibitors and Poster Presenters Move Out)					

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

Poster Number

- 1 **Using Ecological Traits to Evaluate the Vulnerability of Threatened and Endangered Species to Climate Change -- Allison M. Benscoter¹**, Laura A. Brandt², Frank J. Mazzotti¹, Stephanie S. Romañach³ and James I. Watling¹; 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
- 2 **Incorporating Climate Extremes into Climate Envelope Models for Florida Threatened and Endangered Species -- David N. Bucklin¹**, Laura A. Brandt², Carolina Cabal¹, Frank J. Mazzotti¹, Stephanie S. Romañach³ and James I. Watling¹; ¹University of Florida, Fort Lauderdale Research and Education Center, Fort Lauderdale, FL, USA, ²U.S. Fish and Wildlife Service, Fort Lauderdale, FL, USA, ³U.S. Geological Survey, Southeast Ecological Science Center, Fort Lauderdale, FL, USA
- 3 **Modeling the Impact of Climate and Anthropogenic Disturbance on the Distribution Of Florida's Threatened and Endangered Vertebrates -- Carolina Cabal¹**, Laura A. Brandt², David N. Bucklin¹, Frank J. Mazzotti¹, Stephanie S. Romañach³ and James I. Watling¹; ¹University of Florida/IFAS, Davie, FL, USA, ²U.S. Fish and Wildlife, Davie, FL, USA, ³U.S. Geological Survey, Southeast Ecological Science Center, Davie, FL, USA
- 4 **eDNA Monitoring: Presence-absence Sampling Technique for a Rare Amphibian Species -- Thomas Newcomb¹**, Frank Cipriano² and Eric Routman²; ¹Environ, Philadelphia, PA, USA, ²San Francisco State University, San Francisco, CA, USA
- 5 **Habitat Assessment for Smalltooth Sawfish, *Pristis pectinata*, along the Southwestern Coast of Florida -- G. Tiling-Range¹** and T.J. Smith III²; ¹Jacobs Technology, Inc., co Southeast Ecological Science Center, St. Petersburg, FL, USA, ²U.S. Geological Survey, Southeast Ecological Science Center, St. Petersburg, FL, USA

Biodiversity – Habitats

Poster Number

- 6 **The Role of Wetland Pattern and Climatic Change in Determining Wetland Bird Diversity, Taiwan -- Liang-Hsien Chen¹**, Mark D. Barnes² and Monica Kuo³; ¹Chinese Culture University, Department of Life Science, Taiwan, ²Chinese Culture University, Department of Natural Resources, Taiwan, ³College of Environmental at Design Chairman, Dept. of Landscape Architecture, Chinese Culture University, Taiwan
- 7 **Ant Diversity in the Coastal Wetlands of Louisiana -- Xuan Chen**, Benjamin J. Adams and Linda M. Hooper-Bui, Louisiana State University, Baton Rouge, LA, USA
- 8 **A Study of Fresh Water Diatoms of Religious Water Ponds in Kurukshetra, Haryana (India) -- Manoj Kumar Malik¹** and Ajay Kumar²; ¹Forensic Science Laborator, Biology Division, Karnal, Haryana, India, ²Department of Zoology, Wildlife and Animal Behavior Laboratory, Kurukshetra University, Kurukshetra, Haryana, India
- 9 **Bias in Traditional Estimates of Ecological Diversity in Dynamic Wetland Ecosystems -- David M. Mushet**, Ned H. Euliss, Jr. and Matthew J. Solensky, U.S. Geological Survey, Northern Prairie Wildlife Research Center, Jamestown, ND, USA
- 10 **Reed Flads: Unique but Little-Known Wetland Environments in the Northern Baltic Sea -- Riggert Munsterhjelm and Henrietta Pitkänen**; University of Helsinki, Helsinki, Finland
- 11 **Oyster Population and Reef Community Restoration in the St. Lucie River Estuary -- Edward Proffitt** and Elizabeth Salewski, Florida Atlantic University, Ft. Pierce, FL, USA
- 12 **Environmental Characteristics of *Cicuta virosa* Habitats -- Cha Jeong Shin**, Jong Min Nam and Jae Geun Kim, Seoul National University, Seoul, Republic of Korea
- 13 **Clam Bay Natural Resource Protection Area (NRPA) Benthic Habitat Assessment -- Kathy Worley** and Jeffrey R. Schmid, Conservancy of Southwest Florida, Naples, Florida, USA

Biodiversity –Vegetation

Poster Number

- 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.³; ¹Universidade Estadual de Maringá, Maringá, PR, Brasil, ²Secretaria de Estado de Meio Ambiente e Recursos Hídricos – SEMA, Curitiba, PR, ³Universidade Estadual do Oeste do Paraná, Cascavel, PR, Brasil
- 15 **First Report of *Rhizophora 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. Parker²; 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. Hoppole 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

Poster Number

- 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
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- 168 **Applying SOFIA Classifications to Herbaceous and Graminoid Dominated Plant Communities within the Hole-in-the-Donut, Everglades National Park** -- Suzanne M. Kennedy¹, Steven W. Woodmansee², Chris D. Haddad¹, Gerald C. Horak³ and Jonathan E. Taylor⁴; ¹Floravista, Inc., Merritt Island, FL, USA, ²Pro Native Consulting, Miami, FL, USA, ³CSS-Dynamac Corporation, Fort Collins, CO, USA, ⁴National Park Service, Homestead, FL, USA
- 169 **Great Lakes Coastal Wetland Rehabilitation: Synthesizing Year 1 Responses to Hydrologic Reconnection** -- K. P. Kowalski¹, M. Eggleston¹, A. Czayka¹, S. Green¹ and D. Wilcox²; ¹U.S. Geological Survey, Great Lakes Science Center, Ann Arbor, MI, USA, ²Department of Environmental Science and Biology, SUNY- College at Brockport, Brockport, NY, USA
- 170 **Oyster Reef Health and Restoration Potential Along a Salinity Gradient in Naples Bay, Florida** -- S. Katie Laakkonen¹, Michael R. Bauer¹, and Aswani K. Volety²; ¹City of Naples, Naples, FL, USA, ²Florida Gulf Coast University, Fort Myers, FL, USA
- 171 **Effect of Below-ground Vegetation on Macrobenthic Community of Two Mangrove Swamps in Hong Kong: Implication of Plantation and Plant Invasion** -- Jonathan Y.S. Leung, Ying Wang, Qin Hong Cai and Nora F.Y. Tam, City University of Hong Kong, Hong Kong SAR, China
- 172 **Evolution of Self-designed Wetlands in the Snohomish River Estuary, Washington** -- Scott Luchessa, Environ International Corporation, Seattle, Washington, USA
- 173 **Planting Success of Riparian Shrubs and Trees on an Urban Stream Restoration in Utah** -- Eric McCulley¹ and Ty Harrison²; ¹SWCA Environmental Consultants, Salt Lake City, Utah, USA, ²Emeritus Professor of Biology, Westminster College, Salt Lake City, Utah, USA
- 174 **Restoration of a Gulf of Mexico Coastal Salt Marsh Ecosystem through Beneficial Use of Dredge Sediments: Successes, Challenges and Lessons Learned from Four Years of Monitoring and Adaptive Management** -- Douglas J. Partridge¹, Sara Mondziel², Gary Markiewicz¹ and Jonathan Olsen²; ¹ARCADIS, U.S., Inc., Cranbury, NJ, USA, ²ARCADIS, U.S., Inc., Houston, TX, USA
- 176 **Using Inferential Sensors for Quality Control of the Everglades Depth Estimation Network (EDEN)** -- Matthew D. Petkewich¹, Paul A. Conrads¹ and Ruby C. Daamen²; ¹U.S. Geological Survey, Columbia, SC, USA, ²Advanced Data Mining Intl., Greenville, SC, USA
- 177 **Vegetation Response in a Restored Marsh, Jamaica Bay, New York, USA** -- Patricia S. Rafferty¹, Mary-Jane James-Pirri² and Charles T. Roman³; ¹National Park Service, Northeast Region, Patchogue, NY, USA, ²University of Rhode Island, Narragansett, RI, USA, ³National Park Service, Narragansett, RI, USA
- 186 **Apple Snail Population Model for Use in Greater Everglades Restoration Project Assessment** -- S. Romañach¹, P. Darby², D. DeAngelis¹, J. Bridevaux³ and K. Suir³; ¹Southeast Ecological Science Center, U.S. Geological Survey, Davie, FL, USA, ²University of North Florida, Department of Biology, Pensacola, FL, USA
- 187 **Joint Ecosystem Modeling (JEM): Models and Data Tools for Greater Everglades Restoration** -- S. Romañach¹ and C. Conzelmann²; ¹Southeast Ecological Science Center, U.S. Geological Survey, Davie, FL, USA, ²National Wetlands Research Center, U.S. Geological Survey, Lafayette, LA, USA
- 185 **Modeling Amphibian Occurrence and Richness as Ecosystem Indicators in the Greater Everglades** -- J. Hardin Waddle¹, Susan C. Walls² and Stephanie S. Romañach³; ¹U.S. Geological Survey, Lafayette, LA, USA, ²U.S. Geological Survey, Gainesville, FL, USA, ³U.S. Geological Survey, Davie, FL, USA
- 178 **Pre- and Post-Dredging Monitoring of *Spartina alterniflora* Productivity in a Threatened Salt Marsh** -- Ellen Russell¹, Kevin McGarigal¹, Michelle DaCosta¹, Baoshan Xing¹ and Eric Cody²; ¹University of Massachusetts, Amherst, MA, USA, ²Friends of Ellisville Marsh, Inc., Plymouth, MA, USA
- 179 **Effect of Climate Change on Function and Structure of a Restored Salt Marsh** -- Anastasia C. Shippey and Christine R. Whitcraft, California State University Long Beach, Long Beach, CA, USA
- 180 **Evaluation of Potential Impacts to Near Shore Salinity in Western Biscayne Bay from Offshore Groundwater Withdrawals** -- Roy S. Sonenshein, Amy Renshaw and Erik Stabenau, National Park Service, Homestead, FL, USA
- 181 **A Closer Look at the Ecosystem History of South Florida's Estuaries Database** -- Bethany Stackhouse, U.S. Geological Survey, Reston, VA, USA
- 188 **Quantity, Quality, Timing, and Distribution of Flow along the Transition Zone of Shark River Slough, Everglades National Park, Florida** -- Mark Zucker and Jeff Woods, U.S. Geological Survey, Davie, FL, USA

Ecosystem Services - Valuation of Ecosystem Services

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- 121 **Evaluating Wetland Ecosystem Services in the Okefenokee National Wildlife Refuge, Georgia, USA** -- Douglas Patton¹, John Bergstrom¹, Alan Covich², Rebecca Moore³; ¹Department of Agricultural and Applied Economics, University of Georgia, Athens, GA, USA, ²Odum School of Ecology, University of Georgia, Athens, GA, USA, ³Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA, USA
- 123 **Traditional Low-Density Cattle Ranching as a Tool for the Protection of the Pantanal** -- Wolfgang J. Junk^{1,2} & Catia Nunes da Cunha^{1,2}; ¹Universidade Federal de Mato Grosso², Brazilian Institute of Science and Technology for Wetland
- 124 **Restoration of a Riparian Buffer: Traditional and Non-Market Benefits and Costs** -- Ron Nelson¹, Heather MacKay²; ¹Whatcom Farm Friends, Lynden, WA, USA, ²FHB Consulting Services Inc., Lynden, WA, USA
- 122 **Carbon Accumulation in Coastal Louisiana Wetlands: What is the Carbon Credit Value of Restoration?** -- John R. White, Ronald D. DeLaune, Louisiana State University, Baton Rouge, LA, USA
- 125 **How Does the Provision of Ecosystem Services Change along a Gradient of Ecological Condition: A Case Study of Carbon Sequestration** -- Sally A. Wilson¹, Siobhan Fennelly¹, Denice Wardrop², Jessica Moon², and Alexandra Stamatoiu¹; ¹Kenyon College, Gambier, OH, USA, ²Penn State University, State College, PA, USA

Hydrology

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- 97 **Daily Streamflow Prediction of a Coastal Forested Watershed by Independently Estimating Streamflow Magnitude and Sequence** -- H. Ssegane¹, D. M. Amatya², E. W. Tollner¹, Z. Dai³ and J.E. Nettles⁴; ¹University of Georgia, Athens, GA, USA, ²Center for Forested Wetlands Research, USDA-FS, Cordesville, SC, USA, ³University of New Hampshire, Durham, NH, USA, ⁴Weyerhaeuser Company, Columbus, MS, USA
- 98 **Simulation of Natural System Hydrology** -- M. Clay Brown¹ and Winifred P. Said²; ¹South Florida Water Management District, West Palm Beach, FL, USA, ²Jupiter, FL, USA
- 99 **Use of LiDAR for Wetland Hydrologic Analysis** -- Christina Uranowski¹ and B.J. Bukata²; ¹Southwest Florida Water Management District, Brooksville, FL, USA, ²Jones Edmunds & Associates, Inc., Gainesville, FL, USA
- 160 **Determining Changes in Hydrologic Behaviors in the Florida Everglades** -- Paul A. Conrads¹ and Stephen T. Benedict²; ¹USGS South Carolina Water Science Center, Columbia, SC, USA, ²USGS South Carolina Water Science Center, Clemson, SC, USA
- 100 **On the Calculation of the Flux of Materials through Wetlands and Estuaries under Oscillatory Motion** -- Chunyan Li, John White and Sibel Bargu, Department of Oceanography and Coastal Sciences, School of the Coast and Environment, Louisiana State University, Baton Rouge, LA, USA
- 102 **Analysis of Hydroperiod in Isolated Wetlands on Well Fields in the Northern Tampa Bay Region** -- Kim H. Haag and Patricia A. Metz, U.S. Geological Survey, Tampa, FL, USA
- 101 **Factors that Influence the Hydrologic Recovery of Wetlands in the Northern Tampa Bay Area, Florida** -- P. A. Metz, U.S. Geological Survey, Tampa, FL, USA
- 103 **Water Residence Time and Water Quality in Taylor Slough – Everglades National Park, FL, USA** -- Estefania Sandoval, René M. Price, Dean Whitman and Assefa M. Melesse, Florida International University, Miami, FL, USA
- 104 **Develop a Finer Resolution DEM to Support Hydrological Modeling and Ecological Study in the Northern Everglades Freshwater Wetland** -- Zhixiao Xie, Department of Geosciences, Florida Atlantic University, Boca Raton, FL, USA
- 105 **Hydrologic Modeling for Rolling Meadows Wetland Restoration in Polk County, Florida** -- Tony Guan¹, Jing-Yea Yang² and Giles Rhoads¹; ¹ZFI & Construction, Inc., Orlando, FL, USA, ²Environmental Consulting & Technology, Inc. (ECT), Fort Lauderdale, FL, USA

Invasive Species

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- 31 **Environmental DNA Detection of Aquatic Invasive Species: A Monitoring Tools for Loxahatchee National Wildlife Refuge** -- Diaz-Ferguson, E.^{1,2} and Moyer G. R.²; ¹Department of Genetics, University of Georgia, GA, USA, ²Conservation Genetics Laboratory, Fish Technology Center, US Fish and Wildlife Service, Warm Springs, Georgia, USA
- 35 **Comparing Two Modeling Approaches to Predicting Island Apple Snail Range Expansion in the Southern United States** -- Jacoby Carter and Christopher Wells, U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA
- 38 **A Comparison of Three Methods for Detecting the Presence of Green Treefrogs (*Hyla Cinerea*) in an Urban Pond System** -- Jacoby Carter¹ and Sergio Merino²; ¹U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA, ²Fiver Rivers Services, LLC, US Geological Survey, National Wetlands Research Center, Lafayette, LA, USA

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- 39 **A Review of Nutria (*Myocastor coypus*) Habitat Use in Urban Ecosystems** -- Jacoby Carter¹, Trevor Sheffles², Mark Sytsma² and Sergio Merino³; ¹U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA, ²Center for Lakes and Reservoirs, Portland State University, Portland USA, ³Five Rivers Services LLC, USGS, National Wetlands Research Center, Lafayette, USA
- 34 **Using Habitat and Climate Models to Predict Coypu (*Myocastor coypus*) Invasions** -- Jacoby Carter¹, Trevor Sheffles², Catherine Jarnevič³ and Mark Sytsma²; ¹USGS, National Wetlands Research Center, Lafayette, LA, USA, ²Center for Lakes and Reservoirs, Portland State University, Portland, OR, USA, ³USGS, Fort Collins Science Center, Fort Collins, CO, USA
- 32 **Nutrient and Water Level Effects on *Phalaris arundinacea* and *Carex acuta*: A Mesocosm Experiment** -- Keith R. Edwards, Miroslava Káplová, Jan Květ, Department of Ecosystem Biology, Faculty of Science, University of South Bohemia, České Budějovice, Czech Republic
- 33 **Nonnative Fishes in Freshwater Canals of the Florida Everglades: Implications for Better Management** -- D. A. Gandy¹, J.S. Rehage¹ J. Kline², K. R. T. Whelan³ and R. Urgelles³; ¹Florida International University, Miami, FL, USA, ²Everglades National Park, Homestead, FL, USA, ³National Park Service, Miami, FL, USA
- 36 **Back Home with Hydrilla: A Massachusetts Town and the Good Fight** -- Rob Gatewood, Town of Barnstable Conservation Division, Hyannis, MA, USA
- 37 **Determining the Source(s) for *Cichlasoma urophthalmus* (Mayan cichlid) in South Florida** -- Elizabeth Harrison, Timothy Collins and Joel C. Trexler, Florida International University, Department of Biology, Miami, FL, USA
- 41 **Home Range, Habitat Use, and Movement Patterns of Non-Native Burmese Pythons in Everglades National Park** -- M. Kristen Hart¹, Michael S. Cherkiss¹, Frank J. Mazzotti², Ikuko Fujisaki², Skip Snow³ and Michael E. Dorcas⁴; ¹U.S. Geological Survey, Southeast Ecological Science Center, Fort Lauderdale, FL, USA, ²University of Florida, Davie, FL, USA, ³U.S. National Park Service, Homestead, FL, USA, ⁴Davidson College, Davidson, NC, USA
- 42 **Movement and Activity of Invasive Burmese Pythons (*Python molurus bivittatus*) Determined through use of Acceleration and GPS Loggers** -- M. Kristen Hart¹, Michael S. Cherkiss¹, Nicholas M. Whitney² and Frank J. Mazzotti³; ¹U.S. Geological Survey, Southeast Ecological Science Center, Fort Lauderdale, FL, USA, ²Mote Marine Laboratory, Sarasota, FL, USA, ³University of Florida, FLREC, Davie, FL, USA
- 40 ***Phragmites australis* Expansion in a Restored Brackish Marsh Documented at Different Time Scales** -- Rebecca J. Howard¹ and Theodore D. Turluck²; ¹U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA, ²University of Louisiana at Lafayette, Department of Biology, Lafayette, LA, USA
- 43 **Next Generation Sequencing, Molecular Tool Development, and Genetic Characterization of the Invasive Burmese Python in the Greater Everglades Ecosystem** -- Margaret Hunter¹ and Kristen M. Hart²; ¹U.S. Geological Survey, Southeast Ecological Science Center, Gainesville, FL, USA, ²U.S. Geological Survey, Southeast Ecological Science Center, Davie, FL, USA
- 44 **Synergistic Effects of Invasive Species (*Melaleuca quinquenervia*) and Management Practices on Native Plant Community Resilience in the Florida Everglades** -- James J. Lange and Brian W. Benscoter, Florida Atlantic University, Davie, FL, USA
- 45 **Does Hybridization Contribute to Cattail Invasion of Wetlands in the Midwest?** -- Steven E. Travis¹, Joy E. Marburger², and Rachel Tamulonis¹; ¹Department of Biological Sciences, University of New England, Biddeford, ME, USA, ²Indiana Dunes National Lakeshore, National Park Service, Porter, IN, USA
- 46 **Diet of Invasive Burmese Pythons (*Python molurus bivittatus*) in Southern Florida** -- J. Frank Mazzotti¹, Kristen M. Hart², Michael S. Cherkiss², Michael R. Rochford¹, Skip Snow³, Laurie Wilkins⁴ and Carla Dove⁵; ¹University of Florida, Davie, FL, USA, ²U.S. Geological Survey, Southeast Ecological Science Center, Fort Lauderdale, FL, USA, ³Everglades National Park, Homestead, FL, USA, ⁴Florida Museum of Natural History, Gainesville, FL, USA, ⁵Smithsonian Institute Bird Lab, USA
- 48 **Reducing the Risk of Misidentification of *Hydrilla*, *Egeria*, and *Elodea* with DNA Fingerprinting** -- Nancy B. Rybicki¹, Julie D. Kirshtein¹ and Mary A. Voytek²; ¹US Geological Survey, Reston, VA, USA, ²National Aeronautics and Space Administration, Washington, DC, USA
- 49 **Physiological Stress Effects Induced by the Non-Native African Jewelfish on Native Dollar Sunfish** -- Vanessa Trujillo, Philip K. Stoddard and Jennifer S. Rehage, Florida International University, Miami, FL, USA
- 47 **An Assessment of a Reproducing Population of the Oustalet's Chameleon (*Furcifer oustaleti*) in South Florida** -- Joy Vinci¹, Jennifer K. Ketterlin Eckles², Dustin Smith³, Joshua Holbrook⁴ and Frank J. Mazzotti¹; ¹University of Florida, Davie, FL, USA, ²Florida Fish and Wildlife Conservation Commission, Boca Raton, FL, USA, ³Zoo Miami, Miami, FL, USA, ⁴Florida Atlantic University, Davie, FL, USA

Sea Level Rise - Coastal Wetlands

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- 182 **Carbon Sequestration in Mangroves and Salt Marshes in South East Queensland** -- Catherine E. Lovelock, Ruth Reef and Matthew Hayes; School of Biological Sciences, University of Queensland, St Lucia, Australia

Water Quality/Contaminants - Emerging Contaminants

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- 69 **Development of Optimization Method of Wetland Networks to Reduce the Enrichment of Pollutants in Food Webs in an Estuary -- Honggang Zhang**, Baoshan Cui, Zhiming Zhang and Xiaoyun Fan, State Key Joint Laboratory of Environmental Simulation and Pollution Control, School of Environment, Beijing Normal University, Beijing, China
- 70 **The Influence of the Connection Mechanism for Wetland Network to the Saltwater Intrusion in the Pearl River Delta -- Zhiming Zhang**, Baoshan Cui, School of Environment, Beijing Normal University, State Key Joint Laboratory of Environmental Simulation and Pollution Control, Beijing, China

Water Quality/Contaminants - Metals Mercury

Poster Number

- 68 **Accumulation of Metals in the Water, Sediment and Fish Species of Two Impoundments of the Olifants River, South Africa -- A. Addo-Bediako**¹, A. Jooste² and W. Luus-Powell³; Department of Biodiversity, University of Limpopo, Sovenga, South Africa
- 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. Castro**¹, Adolfo M. Fernandez², Valentina Gonzalez-Caccia² and Piero R. Gardinali^{2,3}; 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. Babcsanyi, M. Granet and F. Chabaux, Laboratory of Hydrology and Geochemistry of Strasbourg (LHyGeS), University of Strasbourg/ENGEE, CNRS, Strasbourg Cedex, France
- 73 **Zero Order Sulfate Disappearance Rate in an Everglades Wetland Estimated Using Model Calibration -- Michael G. Waldon**¹, Chunfang Chen², Hongqing Wang³, Hamid Bazgirkhoob² and Ehab A. Meselhe²; 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. Iwinski**¹, Steven R. Iwinski² and ; ¹Applied Polymer Systems, Inc., Woodstock, GA, USA, ²Northern Michigan University, Marquette, MI, USA, ³University of Denver, Denver, CO, USA
- 75 **Best Management Practices for Water Resource Conservation: What Are We Learning? -- Robert Kröger**, 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 Penniman**¹, Mark Hostetler², Tatiana Borisova³ and Glenn Acomb⁴; ¹School of Natural Resource and Environment, University of Florida, Gainesville, FL, USA, ²Department of Wildlife Ecology and Conservation, University of Florida, Gainesville, FL, USA, ³Department of Food and Resource Economics, University of Florida, Gainesville, FL, USA, ⁴Department of Landscape Architecture, University of Florida, Gainesville, FL, USA
- 78 **Vegetation Buffers, Water Quality and Ecosystem Restoration -- Felicia Orah Rein**¹, Karen Holl², Mark Los Huertos³, Daniel Mountjoy⁴, Robert Curry³ and Jean Langenheim²; ¹Geosciences Department, Florida Atlantic University, Boca Raton, FL, USA, ²Environmental Studies, University of California, Santa Cruz, CA, USA, ³Watershed Institute, California State University, Monterey Bay, CA, USA, ⁴USDA, Natural Resources, Salinas, CA, USA
- 79 **Effects of Root-Zone Glyphosate Exposure in Two Ditch Species -- Lyndsay E. Saunders**¹, Melissa B. Koontz¹, Matthew T. Moore², S. R. Pezeshki¹; ¹University of Memphis, Memphis, TN, USA, ²National Sedimentation Laboratory, Oxford, MS, USA

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Water Quality/Contaminants - Nutrients

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- 80 **Prediction of Phosphorus Release from Wetland Soils** -- Vimala D. Nair, **Mark W. Clark** and K. Ramesh Reddy, University of Florida, Gainesville, FL, USA
- 81 **Water Quality Modeling of Golden Gate Canal System** -- **Marcelo Lago**¹ and Moris Cabezas²; ¹DHI Water and Environment, Saint Petersburg, FL, USA, ²Atkins, Tampa, FL, USA
- 82 **Effects of a Large Mississippi River Diversion on Estuarine Sediment Phosphorus Concentrations and Internal Loading** -- **Nhan Nguyen**, John R. White, Eric D. Roy, and Sam J. Bentley, Louisiana State University, Baton Rouge, LA, USA
- 83 **Effects of Species Composition and Diversity on Dissolved Nutrients in Stair-Step Mesocosms** -- **Samuel C. Pierce**¹, Robert Kröger¹ and Matthew T. Moore²; ¹Department of Wildlife, Fisheries, and Aquaculture, Mississippi State University, Starkville, MS, USA, ²USDA-ARS National Sedimentation Laboratory, Water Quality and Ecology Unit, Oxford, MS, USA
- 84 **Modeling Dissolved Organic Carbon (DOC) Dynamics in Flooded Wetlands** -- **Amirreza Sharifi**¹, Latif Kalin¹ and Mohamed M. Hantush²; ¹School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL, USA, ²U.S. EPA National Risk Management Research Lab, Cincinnati, OH, USA
- 85 **Long-term Macronutrient Accumulation in Isolated Subtropical Wetlands** -- **Yu Wang**, Wetland Biogeochemistry Laboratory, Soil and Water Science Department, University of Florida, Gainesville, FL, USA
- 86 **Chaotic, Non-linear Dynamics of Water Chemistry in a Florida Freshwater Spring** -- **Danielle L. Watts**, Matthew J. Cohen and Ray G. Huffaker, University of Florida, Gainesville, FL, USA
- 87 **Effects of Agricultural Activity on Temporospatial Variation of Water Quality in a Bog Pool, Lake Miyajima-numa, Northern Japan** -- **Makoto Yokoyama**¹, Hiroyuki Yamada² and Yutaka Kaizu²; ¹Graduate School of Agriculture, Hokkaido University, Sapporo, JAPAN, ²Research Faculty of Agriculture, Hokkaido University, Sapporo, JAPAN
- 88 **Enhancement of Purification for Eutrophic Water by DPAOs Inoculated Stereo Floating Bed** -- Fengliang Zhao¹, **Ning Yu**^{1,2}, Hong Li¹, Weidong Yang¹, Shu Xi¹, Jianjian Li¹ and Xiaoe Yang¹; ¹MOE Key Lab of Environmental Remediation and Ecosystem Health, College of Environmental and Resources Science, Zhejiang University, Hangzhou, China, ²Ningbo Drinking Water Source Group Ltd., Ningbo, China

Water Quality/Contaminants - Oil Spills

Poster Number

- 89 **Determining the Effect of Oil Weathering and Dosage on *Juncus roemerianus*: A Wetland Mesocosm Experiment** -- **Thomas A. Hess** and Christopher J. Anderson, Auburn University, School of Forestry and Wildlife Science, Auburn AL, USA
- 90 **Silent Spring Revisited: Insects and Spiders in Louisiana's Saltwater Marshes after the Macondo Blowout** -- **Linda M. Hooper-Bùi**, R. M. Strecker, O. Osisioma, B. J. Adams, X. Chen and E. Overton, R.E. Turner Louisiana State University, Baton Rouge, LA, USA
- 91 **Toxicities of Oils, Dispersants and Dispersed Oils to Aquatic Plants: Summary and Database Value to Resource Sustainability** -- **Michael Lewis** and Rachel Pryor, U.S. Environmental Protection Agency, Gulf Breeze, FL, USA
- 92 **Freshwater Diversions Provided Pulsed Hydrology to Coastal Swamps for Remediation** -- **Beth A. Middleton**¹ and Brian Roberts²; ¹U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA, ²Louisiana University Marine Consortium (LUMCON), Chauvin, LA, USA

Water Quality/Contaminants – Salinity

Poster Number

- 93 **Monitoring of Florida Estuaries with a Flow Mapping System** -- **Mayra Ashton**, Cecilia Conrad and Barbara Welch, South Florida Water Management District, West Palm Beach, FL, USA
- 94 **Variation in Salinity Tolerance of Larval Amphibians: Implications for Community Composition in Coastal Wetlands** -- **M. E. Brown** and S. C. Walls, U.S. Geological Survey, Gainesville, FL, USA

Water Quality/Contaminants - Toxic Organics

Poster Number

- 96 **Historical Deposition of PAH, Pesticide, and Metal Contaminants in Clam Bayou, St. Petersburg, Florida** -- **Renee A. Price**¹, Thomas J. Whitmore², Melanie A. Riedinger-Whitmore¹, William F. Kenney² and James G. Flocks³; ¹University of South Florida, St. Petersburg, St. Petersburg, FL, USA, ²University of Florida, Gainesville, FL, USA, ³U.S. Geological Survey, St. Petersburg, FL, USA
- 95 **The Role of Groundwater Flow in Everglades Landscape Restoration** -- **René M. Price**^{1&2}, Pamela L. Sullivan¹, Michael S. Ross^{1&2}, Leonard J. Scinto^{1&2}, Eric Cline³, Thomas Dreschel³ and Fred Sklar³; ¹Department of Earth and the Environment, Florida International University, Miami, FL, USA, ²Southeast Environmental Research Center, Florida International University, Miami, FL, USA, ³South Florida Water Management District, Everglades Systems Assessment Section, West Palm Beach, FL, USA

Directory of Poster Presentations – Session Two

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Presenting authors are in **bold**.

Climate Change - Carbon Sequestration

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- 331 **Carbon Sequestration in Constructed Wetlands Treated with Swine Wastewater** -- Gudigopuram B. Reddy¹, Patrick G. Hunt², Kyoung Ro², Ariel Szogi² and **Johnsely Cyrus**¹; ¹North 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. Drexler**¹, M. Craig Sasser², Ken W. Krauss³, James Orlando¹, Amber M. Powell¹ and Christopher M. Swarzenski⁴; ¹U.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. Iversen**¹, Paul J. Hanson¹, Randall K. Kolka², Stephen D. Sebestyen², Richard J. Norby¹, Joanne Childs¹, Brian Palik², Peter Thornton¹, Jeffrey Warren¹, Stan D. Wulfschleger¹ and Les Hook¹; ¹Oak 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 Llano** -- **Luisa F. Vega**¹, Karl-Otto Rothaupt¹, Catia Nunes da Cunha², Marcelo Z. Moreira³ and Matthias Wantzen⁴; ¹Limnologisches Institut, Universität Konstanz, Mainaustraße, Konstanz / Egg, Germany, ²Laboratório de Ecologia Vegetal (NEPA), Instituto de Biociências, Universidade Federal de Mato Grosso, Cuiabá, MT, Brazil, ³Laboratório de Ecologia Isotópica, 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

Poster Number

- 270 **Susceptibility of Macrophyte Productivity to Variations in Flood Intensity in the Amazon Floodplain** -- **Thiago S. F. Silva**¹, Tarik S. Araújo¹, Evelyn M. L. M. Novo¹ and John M. Melack²; ¹Remote 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

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Climate Change - Greenhouse Gas Emissions

Poster Number

- 337 **Pattern of Greenhouse Gases Emission from Rice-field Wetland** -- Hwey-Lian Hsieh¹, Lan-Feng Fan¹, Tsanyao Frank Yang², Chun-Han Huang¹, Chun-Ming Chiu² and Chang-Po Chen¹; 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
- 339 **Evaluation of Direct and Indirect Phosphorus Limitation of Methanogenic Pathways in Calcareous Subtropical Wetland Soils** -- C. A. Medvedeff, K. S. Inglett and P. W. Inglett, Department of Soil and Water Science, University of Florida, Gainesville, FL, USA
- 340 **Greenhouse Gas Emissions from Natural, Restored, and Prior-converted Wetlands of the Mid-Atlantic** -- J. O. Miller, P.G. Hunt and T.F. Ducey, USDA-ARS, Florence, SC, USA
- 341 **Estimating Annual Soil Carbon Release from Everglades Tree Islands** -- Robert Schroeder^{1,2}, Leonard Scinto^{1,2}, Alexandra Serna^{1,2}, 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 Wang², Xiaoe Yang¹, Hong Li¹, Hongyun Peng¹, Zhenli He³, Binhe Gu⁴ 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

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- 330 **Predicting Everglades Nutrient Distributions in Response to Climate Change Projections** -- Rajendra Paudel^{1,2}, H. Carl Fitz^{1,2} and R. K. Shrestha³; ¹Ft. 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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- 349 **George W. Shannon Wetlands Water Recycling Facility – From Research to Reality** -- Loretta Mokry¹, Darrel Andrews² and Mark Ernst²; ¹Alan Plummer Associates, Inc., Fort Worth, TX, USA, ²Tarrant Regional Water District, Fort Worth, Texas, USA
- 350 **Modeling Reservoirs to Enhance the Phosphorus Removal Performance of Everglades Stormwater Treatment Areas** -- Naming Wang, Jeremy C. McBryan, Zaki Moustafa and Walter Wilcox, South Florida Water Management District, West Palm Beach, FL, USA

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- 352 **Everglades Stormwater Treatment Areas: Two Decades of Integrating Science and Engineering for Ecosystem Restoration** -- Jeremy C. McBryan, Tracey T. Piccone and Lawrence R. Gerry; South Florida Water Management District, West Palm Beach, FL, USA
- 353 **Long-Term Treatment of Industrial Discharge for Metals with Constructed Wetlands** -- Eric A. Nelson, Savannah River National Laboratory, Aiken, SC, USA
- 354 **Spatial Soil Characteristics and Phosphorus Stability in Emergent and Submerged Aquatic Vegetation Cells of Stormwater Treatment Areas** -- Delia Ivanoff¹, Rupesh Bhomia² and Manuel Zamorano¹; ¹South Florida Water Management District, West Palm Beach, FL, USA, ²University of Florida, Gainesville, FL, USA

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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 Compitello¹ and Jimi Sadle²; 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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- 322 **Forecasting Coastal Change under Sea Level Rise: A Mid-Atlantic Case Study** -- **S. Kyle McKay**^{1,2}, Austin V. Davis², Jay J. Ratcliff³ and Kelly Burks-Copes²; 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 III²; ¹Jacobs Technology/USGS Southeast Ecological Science Center, St. Petersburg, FL, USA, ²USGS Southeast Ecological Science Center, St. Petersburg, FL, USA

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- 325 **Vegetation Diversity and Nutrient Allocation along a Salinity Gradient** -- **Lori A. Sutter**¹, James E. Perry, III¹ and Randolph M. Chambers²; ¹Virginia Institute of Marine Science, Gloucester Point, VA, USA, ²The 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. Fotinos² and Robert B. Shamblin¹; ¹National Park Service, Palmetto Bay, FL, USA, ²Florida International University, Miami, FL, USA

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- 369 **Effects of Increased Temperature on a *Trichoptera: Hydropsychidae* Species Found in Costa Rica** -- Katharine Stewart¹ and David Rogowski²; ¹Northeastern State University, Tahlequah, OK, USA, ²Texas Tech University, Lubbock, TX, USA
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- 371 **East Winston North Carolina Master Plan: Open Space Network** -- James Totton¹ and Anna Reaves²; ¹North Carolina A&T State University, Greensboro, NC, USA, ²Goler CDC, Winston-Salem, NC, USA

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- 312 **Carbon Storage and Sequestration by Urban Wetland Forests in Orlando, Florida, USA** -- Edem K. Ekpe¹, C. Ross Hinkle¹, K. Elizabeth Becker¹, and Francisco Escobedo²; ¹Department of Biology, University of Central Florida, Orlando, FL, USA, ²School of Forest Resources and Conservation, University of Florida, Gainesville, FL, USA
- 313 **Conceptual Model of Habitat Restoration for Gobies in Tokyo Bay, Japan** -- Keita Furukawa, Tomonari Okada, Satomi Kamimura and Jun Yoshida; National Institute for Land and Infrastructure Management, Yokosuka, Kanagawa, Japan
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- 319 **Urban Land-Use Effects on Salt Marsh Resident Cyprinodontiformes in the Gulf of Mexico** -- Chris J. Anderson and Madeline E. Wedge, Auburn University, Auburn, AL, USA

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- 375 **Pioneering Large-scale Coastal Wetland and Prairie Restoration Design in Southeastern Texas** -- Pamela J. Fetterman¹, Richard W. Earp², Peter K. Partlow² and Ryan Mitchell²; ¹E Sciences, Inc., Sarasota, FL, USA, ²E Sciences, Inc., Orlando, FL, USA
- 376 **Two Year Survival and Growth of Seven Wetland Tree Species in Three Hydrologically Distinct Habitats** -- H. W. Hudson, III and J. E. Perry, Virginia Institute of Marine Science, College of William & Mary, Gloucester Point, VA, USA
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- 378 **Reproducibility of a Plant-based Index of Biological Integrity in Wet and Dry Conditions** -- Matthew Wilson, Suzanne Bayley and Rebecca Rooney, Dept of Biological Sciences, University of Alberta, Edmonton, AB, Canada

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- 384 **Regional Supplements to the Corps of Engineers Wetland Delineation Manual: 2012 Status Report** -- Jacob F. Berkowitz, Engineer Research and Development Center, U.S. Army Corps of Engineers, Vicksburg, MS, USA
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- 386 **Developing a Database and Algorithms to Support the National Wetland Plant List** -- Matthew F. Buff¹, Robert W. Lichvar² and Donald J. Leopold¹; ¹SUNY-ESF, Syracuse, NY, USA, ²U.S. Army Corps of Engineers, Hanover, NH, USA
- 387 **A Review of Anthropogenic Landscape Disturbance Effects on Wetland Function with Respect to Integrating Landscape Metrics into Assessments of Wetland Condition** -- Daniel Dvoretz¹, Craig A. Davis¹ and Joseph Bidwell²; ¹Department of Natural Resource Ecology and Management, Oklahoma State University, Stillwater, OK, USA, ²School of Environmental and Life Sciences, University of Newcastle, Callaghan, Australia
- 380 **Wetlands Correction Factors for LiDAR Digital Elevation Models** -- Sandra Fox¹, Palmer Kinser¹, Lawrence Keenan¹, Debra Hydorn², William Wise³ and Clay Montague³; ¹St Johns River Water Management District, Palatka, FL, USA, ²University of Mary Washington, Fredericksburg, VA, USA, ³University of Florida, Gainesville, FL, USA
- 389 **Landscape-Scale Wetland Functional Assessment on Alaska's North Slope** -- Zachary Halstead, Anne Leggett, Tobin Lilly, Malcolm Salway, George Hoden, and Douglas Jewell, HDR Alaska, Inc., Anchorage, AK, USA
- 390 **Local Wetland Inventories and ORWAP: Applications for Assessing, Protecting, and Mitigating Wetlands** -- Sarah Hartung¹ and Paul Adamus²; ¹Environmental Science Associates, Inc., Portland, OR, USA, ²Adamus Resource Assessment, Inc., Corvallis, OR, USA
- 391 **Adaptive Techniques for Large-Scale Wetland Delineation** -- Dale F. Knapp, Stantec Consulting Services Inc., Topsham, Maine, USA
- 392 **HGM Poster** -- Chris Noble, USACE, Vicksburg, MS USA
- 393 **Comparative Analysis of Coastal Wetland Health in the Delaware Estuary Assessed Using Rapid Methods** -- Angela T. Padeletti¹, Danielle Kreeger¹, Kelly Somers¹, Andrew Howard² and Alison Rogerson²; ¹Partnership for the Delaware Estuary, Wilmington, DE, USA, ²Delaware Department of Natural Resources and Environmental Control, Dover, DE, USA
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- 383 **Initial Regulatory Applications of the Florida Wetland Condition Index for Vegetation (FWCI-V)** -- Ashley O'Neal¹, Nia Wellendorf¹ and Kelly Reiss²; ¹Florida Department of Environmental Protection, Tallahassee, FL, USA, ²HT Odum Center for Wetlands, University of Florida, Gainesville, FL, USA

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- 397 **Rugged Mobile Wetland Data Collection Solutions for Assessment and Monitoring** -- **Brandon Tolle**¹ and Rick Gosalvez²; ¹Navigation Electronics, Lafayette, LA, USA ²Trimble Navigation, USA
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- 399 **Multi-Element Fingerprinting of Wetland Soils Yields Insight into Wetland Quality and Functioning** -- **A.H. Yellick**¹, D.L. Jacob¹, E.S. DeKeyser², C.L.M. Hargiss², C. Yan³ and M.L. Otte¹; ¹Wet Ecosystem Research Group, Biological Sciences, North Dakota State University, Fargo, ND, USA, ²Natural Resources Sciences, North Dakota State University, Fargo, ND, USA, ³Computer Sciences, North Dakota State University, Fargo, ND, USA

Wetland Ecosystems Processes & Functions - Coastal Wetlands (Mangroves Marshes SAVs)

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- 204 **Organic Carbon Burial Rates in Southwestern Everglades Mangrove Sediments** -- **Joshua L. Breithaupt**¹, Joseph M. Smoak¹, Thomas J. Smith² and Christian J. Sanders³; ¹University of South Florida, Environmental Science, St. Petersburg, FL, USA, ²U.S Geological Survey, Southeast Ecological Science Center, St. Petersburg, FL, USA, ³Universidade Federal de Fluminense (UFF), Departamento de Geoquímica, Niterói-RJ, Brazil
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- 202 **A Seagrass Habitat Suitability Index Spatial Model** -- **Althea S. Hotaling**¹, Thomas K. Frazer², Robert Swett², L. Rex Ellis³; ¹University of Florida, School of Natural Resources and Environment, Gainesville, FL, USA, ²University of Florida, Program in Fisheries and Aquatic Sciences, Gainesville, FL, USA, ³University of Florida, Soil and Water Science, Gainesville, FL, USA
- 206 **The Emergy Analysis on Wetland Ecosystem of Chiku, Taiwan** -- **Shu-Mei Huang**, Ming-Chee Wu, Mon-Shieh Yang and Howar Lee, National Cheng Kung University, Tainan, Taiwan, ROC
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- 208 **Nitrogen Limitation in Dwarf *Avicennia marina* Mangroves** -- **Gonasageran Naidoo** and Yougasphree Naidoo, School of Life Sciences, University of KwaZulu -Natal, Durban, South Africa
- 209 **Trophic Dynamics in Mangrove Ecosystems in Port Everglades** -- Amy C. Hirons and **Kelly Parks**, Nova Southeastern University, Dania Beach, FL, USA
- 210 **Establishment of Long Term Soil Surface Elevation Monitoring Sites in Biscayne National Park** -- Kevin R. T. Whelan¹ and **Michelle C. Prats**²; ¹National Park Service, Palmetto Bay, FL, USA, ²Florida International University, Miami, FL, USA
- 211 **Effects of Interior Pond Creation on Sedimentation, Hydrology, and Elevation Changes of Salt Marshes** -- **Tracy Elsey-Quirk**¹, S. Adamowicz², M. Brannin¹ and D.J. Velinsky¹; ¹Patrick Center for Environmental Research, Academy of Natural Sciences of Drexel University, Philadelphia, PA, USA, ²U.S. Fish & Wildlife Service, Wells, ME, USA
- 212 **Denitrification Rates in Coastal Louisiana Bayou Sediment and Marsh Soil: Role of Macrophytes and Consequences for Diversion Management** -- **Christine M. VanZomer**¹, John R. White² and Ronald D. DeLaune²; ¹University of Florida, Gainesville, FL, USA, ²Louisiana State University, Baton Rouge, LA, USA

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- 216 **Tracking Predator Movement along an Estuarine Gradient: Effects of Temperature and Salinity** -- Rebecca R Ward, Ross Boucek and Jennifer Rehage, Florida International University, Miami, FL, USA
- 217 **Monitoring the Coastal Wetland Geomorphologic Evolution by Series of Historical Maps** -- Ming-Chee Wu¹, Mon-Shieh Yang¹, Chao-Kuo Wang² and Shu-Mei Huang¹; ¹National Cheng Kung University, Tainan, Taiwan, ROC, ²Tainan City Government, Tainan, Taiwan, ROC

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- 220 **Degradation of Natural Wetlands Receiving Permitted Sewage Discharges** -- J.E. Bodker, Dept. of Oceanography and Coastal Sciences, LSU, Baton Rouge, LA, USA
- 221 **Comparisons of Nitrogen Content among Wetland Plants and Effects on Local Environment** -- C. Allisa Vincent, Julia A. Cherry and Amelia K. Ward, University of Alabama, Tuscaloosa, AL, USA
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- 222 **Hydrological and Biogeochemical Controls on Nitrous Oxide (N₂O) Production and Consumption in Isolated Wetlands in Grassland Ecosystems** -- Jing Hu, Kanika S. Inglett, Mark W. Clark and K. Ramesh Reddy, Wetland Biogeochemistry Laboratory, Soil and Water Science Department, University of Florida, FL, USA
- 223 **Plant Functional Types Identification in the Lower Paraná River Floodplain, Argentina** -- Natalia S. Morandeira^{1,2}, M. Marta Borro^{1,2}, Gabriela González Trilla^{1,2}, M. Mercedes Salvia^{1,2}, Nora Madanes³ and Patricia Kandus¹; ¹LETyE, 3iA-UNSAM, Buenos Aires, Argentina, ²Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina, ³Grupo de Investigaciones en Ecología de Humedales, FCEN-UBA, Buenos Aires, Argentina
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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. Lopez^{1,2}, Alexander W. Cheesman², Jorge Hoyos³, Sofie Sjogersten³ 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. McDonald^{1,2}, Ronny Schroeder^{1,2}, Bruce Chapman², Erika Podest², Marzieh Azarderakhsh¹, Jane Whitcomb³, Mahta Moghaddam³, Lucas Jones⁴, John Kimball⁴ and Laura Hess⁴; ¹City College of New York, City University of New York, 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. Janse¹, M.H.J.L. Jeuken¹, J.J. Kuiper², J.R.M. Alkemade¹ and J.T.A. Verhoeven²; 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

Alphabetical Directory of Poster Presentations – By Author

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Maria Fernanda	Adame	CINVESTAV-IPN, Unidad Merida		Mexico	Mangrove Restoration Experience in Yucatan Peninsula: The Approach and Results	152	Monday-Wednesday	6/4/12-6/6/12	Session One
Susan	Adamowicz	US FWS	ME	United States	Innovative restoration methods for ditched salt marshes: techniques and performance measures	153	Monday-Wednesday	6/4/12-6/6/12	Session One
Abraham	Addo-Bediako	University of Limpopo		South Africa	Accumulation of metals in the water, sediment and fish species of two impoundments of the Olifants River, South Africa	68	Monday-Wednesday	6/4/12-6/6/12	Session One
Gene	Albanese	Kansas Cooperative Fish & Wildlife Research Unit	KS	United States	A Comparative Examination of Within Wetland and Wetland Context Characteristics on Stopover Habitat Use by Migratory Shorebirds: Is the Neighborhood Important?	21	Monday-Wednesday	6/4/12-6/6/12	Session One
Gene	Albanese	Kansas Cooperative Fish & Wildlife Research Unit	KS	United States	Broad-Scale Relationship between Shorebirds and Landscapes in the Southern Great Plains	22	Monday-Wednesday	6/4/12-6/6/12	Session One
Diane	Alix	Auburn University	AL	United States	An Investigation of the Influence of Urbanization on Amphibians in Headwater Slope Wetlands	310	Wednesday-Friday	6/6/12-6/8/12	Session Two
Devendra	Amatya	USDA Forest Service	SC	United States	Daily Streamflow Prediction of a Coastal Forested Watershed by Independently Estimating Streamflow Magnitude and Sequence	97	Monday-Wednesday	6/4/12-6/6/12	Session One
Devendra	Amatya	USDA Forest Service	SC	United States	Estimation of Depression Storage on Wetland Watersheds	251	Wednesday-Friday	6/6/12-6/8/12	Session Two
James	Amon	Wright State University	OH	United States	Many Wetlands Capable of Anaerobic Dechlorination	63	Monday-Wednesday	6/4/12-6/6/12	Session One
Shuqing	An	Nanjing University		China	Sulfur is a potential chemical tool for plant invasions: an insight from the Spartina invasions	359	Wednesday-Friday	6/6/12-6/8/12	Session Two
Gordon	Anderson	U.S. Geological Survey	FL	United States	The Role of Crab Burrows as Preferential Conduits for Tidal Water in Low Hydraulic Conductivity Mangrove Peat in Everglades National Park, Florida, USA.	201	Wednesday-Friday	6/6/12-6/8/12	Session Two

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Ann	Anderson	West Virginia University	WV	United States	Avian and Anuran Communities in Mitigated and Reference Wetlands of West Virginia	23	Monday-Wednesday	6/4/12-6/6/12	Session One
James	Anderson	West Virginia University	WV	United States	Environmental Correlates of Wetland Plant Litter Decomposition in the Mid-Atlantic Highlands, USA	219	Wednesday-Friday	6/6/12-6/8/12	Session Two
Anna	Armitage	Texas A&M University at Galveston	TX	United States	Drought and Construction Techniques Influence Ecosystem-Level Restoration of a Brackish Marsh	345	Wednesday-Friday	6/6/12-6/8/12	Session Two
Takashi	Asaeda	Saitama University		Japan	Clump structures of two sedge species induced by soil moisture regime in an ephemeral wetland	294	Wednesday-Friday	6/6/12-6/8/12	Session Two
Aida	Asgary	North Dakota State University	ND	United States	Multi-Element Fingerprinting of Riparian Wetlands	273	Wednesday-Friday	6/6/12-6/8/12	Session Two
Mayra	Ashton	South Florida Water Management District	FL	United States	Monitoring of Florida Estuaries with a Flow Mapping System	93	Monday-Wednesday	6/4/12-6/6/12	Session One
Pascal	Badiou	Ducks Unlimited Canada		Canada	The Impacts of Wetland Loss in a Prairie Watershed	303	Wednesday-Friday	6/6/12-6/8/12	Session Two
Eva	Bailey	Cardno ENTRIX	FL	United States	Benefits of Tree Spading When Creating Cypress Systems in West Central Florida	373	Wednesday-Friday	6/6/12-6/8/12	Session Two
Virginia	Baker	NCDENR	NC	United States	Level 1, Level 2, and Level 3 Isolated Wetland Assessments in the NC and SC Coastal Plain	379	Wednesday-Friday	6/6/12-6/8/12	Session Two
Karen	Balentine	U.S. Geological Survey	FL	United States	Partitioning Root Zone and Deep Sediment Dynamics Using Paired Surface Elevation Tables in Everglades National Park, Florida, USA	203	Wednesday-Friday	6/6/12-6/8/12	Session Two
João Carlos	Barbosa da Silva	Universidade Estadual de Maringá		Brazil	Bird perches as a tool to restore vegetation in Neotropical grassland dominated by exotic grass	14	Monday-Wednesday	6/4/12-6/6/12	Session One
Flynt	Barksdale	Auburn University	AL	United States	Land-use Effects on Carbon Cycling and Hydrologic Function in Alabama Headwater Wetlands	311	Wednesday-Friday	6/6/12-6/8/12	Session Two
Maria	Barreto	Universidad Central de Venezuela		Venezuela	First Report of <i>Rhizophora racemosa</i> (Rhizophoraceae) in the Wider Caribbean Region	15	Monday-Wednesday	6/4/12-6/6/12	Session One

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Leah	Beckett	University of Maryland	MD	United States	Effects of Saltwater Intrusion on Tidal Freshwater Marsh Surface Elevation and Vegetation; An Experimental Study in Chesapeake Bay	320	Wednesday-Friday	6/6/12-6/8/12	Session Two
James	Beerens	Florida Atlantic University	FL	United States	Generating CERP Performance Measures from Spatio-temporal Habitat Suitability Indices	129	Monday-Wednesday	6/4/12-6/6/12	Session One
Sarah	Bellmund	National Park Service	FL	United States	Scale in the use of Continuous Recording Data and the Effects of Groundwater on the Coastal Wetlands and Biscayne Bay	154	Monday-Wednesday	6/4/12-6/6/12	Session One
Allison	Benscoter	University of Florida	FL	United States	Using Ecological Traits to Evaluate the Vulnerability of Threatened and Endangered Species to Climate Change	1	Monday-Wednesday	6/4/12-6/6/12	Session One
Catherine E.	Benson	Clarkson University	NY	United States	Ecological Value of Restored Wetlands in Northern NY: An Assessment of Wetland Quality Using Biological Indicators	155	Monday-Wednesday	6/4/12-6/6/12	Session One
Jacob	Berkowitz	US Army Corps of Engineers	MS	United States	Regional Supplements to the Corps of Engineers Wetland Delineation Manual: 2012 Status Report	384	Wednesday-Friday	6/6/12-6/8/12	Session Two
Rupesh	Bhomia	University of Florida	FL	United States	Influence of Wetland Vegetation Type on the Stability of Accreted Phosphorus in the Everglades Stormwater Treatment Areas	351	Wednesday-Friday	6/6/12-6/8/12	Session Two
Edward	Bodker	Louisiana State University	LA	United States	Degradation of Natural Wetlands Receiving Permitted Sewage Discharges	220	Wednesday-Friday	6/6/12-6/8/12	Session Two
Claudia	Bonecker	Universidade Estadual de Maringá		Brazil	Zooplankton body-size structure and biomass and planktivorous fishes in tropical floodplain lakes.	274	Wednesday-Friday	6/6/12-6/8/12	Session Two
Laura	Brandt	USFWS	FL	United States	Site Occupancy of Anurans in the Arthur R. Marshall Loxahatchee National Wildlife Refuge: Development of a Monitoring Protocol	156	Monday-Wednesday	6/4/12-6/6/12	Session One
Jacob	Bransky	Florida Atlantic University	FL	United States	Ontogenetic, Interspecific, and Seasonal Variation in Prey Use of Three Centrarchids in a Subtropical Wetland	24	Monday-Wednesday	6/4/12-6/6/12	Session One

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First Name	Last Name	Organization	ST	Country	Abstract Title	Poster Number	Day	Date	Session Title
Joshua	Breithaupt	University of South Florida	FL	United States	Organic Carbon Burial Rates in Southwestern Everglades Mangrove Sediments	204	Wednesday-Friday	6/6/12-6/8/12	Session Two
Mary	Brown	US Geological Survey	FL	United States	Variation in salinity tolerance of larval amphibians: implications for community composition in coastal wetlands	94	Monday-Wednesday	6/4/12-6/6/12	Session One
Michael	Brown	South Florida Water Management District	FL	United States	Simulation of Natural System Hydrology	98	Monday-Wednesday	6/4/12-6/6/12	Session One
Mark	Brown	U.S. Forest Service	TN	United States	The Cypress Situation in the Southern USA, circa 2010	385	Wednesday-Friday	6/6/12-6/8/12	Session Two
Tracy	Buck	North Inlet-Winyah Bay National Estuarine Research Reserve	SC	United States	Assessing the Role of Tidal Inundation in Determining the Spatial Structure of a Southeastern US Salt Marsh	321	Wednesday-Friday	6/6/12-6/8/12	Session Two
David	Bucklin	University of Florida	FL	United States	Incorporating Climate Extremes into Climate Envelope Models for Florida Threatened and Endangered Species	2	Monday-Wednesday	6/4/12-6/6/12	Session One
Matthew	Buff	SUNY-ESF	NY	United States	Developing a Database and Algorithms to Support the National Wetland Plant List	386	Wednesday-Friday	6/6/12-6/8/12	Session Two
B.J.	Bukata	Jones Edmunds	FL	United States	Use of LiDAR for Wetland Hydrologic Analysis	99	Monday-Wednesday	6/4/12-6/6/12	Session One
Valerie	Burkett	University of Florida	FL	United States	The Impact of Surrounding Land Uses on Plant Species Richness in Florida Wetlands	16	Monday-Wednesday	6/4/12-6/6/12	Session One
Michael	Bush	Florida International University	FL	United States	Movement and Activity Patterns of Fishes in a Dynamic Landscape	257	Wednesday-Friday	6/6/12-6/8/12	Session Two
Carolina	Cabal	University of Florida	FL	United States	Modeling the impact of climate and anthropogenic disturbance on the distribution of Florida's threatened and endangered vertebrates	3	Monday-Wednesday	6/4/12-6/6/12	Session One
Lindsey	Callier	South Carolina St.	GA	USA	The Effect of Salinity on Respiration, Growth and Survival of Blue Tilapia, <i>Oreochromis Aureus</i>	364	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jacoby	Carter	US Geological Survey	LA	United States	A Comparison of Three Methods for Detecting Green Treefrogs (<i>Hyla cinerea</i>) in an Urban Pond System	34	Monday-Wednesday	6/4/12-6/6/12	Session One

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Jacoby	Carter	US Geological Survey	LA	United States	Comparing Two Modeling Approaches to Predicting Island Applesnail Range Expansion in the Southern United States	35	Monday-Wednesday	6/4/12-6/6/12	Session One
Jacoby	Carter	US Geological Survey	LA	United States	Using Habitat and Climate Models to Predict Coypu (<i>Myocastor coypus</i>) Invasions	38	Monday-Wednesday	6/4/12-6/6/12	Session One
Jacoby	Carter	US Geological Survey	LA	United States	Review of Nutria in Urban Ecosystems	39	Monday-Wednesday	6/4/12-6/6/12	Session One
Grady	Caulk	U.S. Corps of Engineers	FL	United States	It is all in the Questions: Incorporating Archeological Data in Wetland Studies	109	Monday-Wednesday	6/4/12-6/6/12	Session One
Randolph	Chambers	College of William and Mary	VA	United States	Interannual Variation in Bulk Soil Properties in the Coastal Everglades	285	Wednesday-Friday	6/6/12-6/8/12	Session Two
Ni-Bin	Chang	UCF	FL	United States	A Holistic Assessment of Lake and Wetland Restoration Best Management Practices in Florida	141	Monday-Wednesday	6/4/12-6/6/12	Session One
Sean	Charles	Virginia Institute of Marine Science	VA	United States	Soil Characteristics and Tree Growth in a Created Wetland	346	Wednesday-Friday	6/6/12-6/8/12	Session Two
Liang-Hsien	Chen	Chinese Culture University		Taiwan	The Role of Wetland Pattern and Climatic Change in Determining Wetland Bird diversity, Taiwan.	6	Monday-Wednesday	6/4/12-6/6/12	Session One
Xuan	Chen	Louisiana State University	LA	United States	Ant Diversity in the Coastal Wetlands of Louisiana	7	Monday-Wednesday	6/4/12-6/6/12	Session One
Hongjun	Chen	South Florida Water Management District	FL	United States	Influences of Inflow Total Phosphorus Concentration and Loading and Vegetation Type on Phosphorus Removal Performance in the Everglades Stormwater Treatment Areas	347	Wednesday-Friday	6/6/12-6/8/12	Session Two
Michael	Cherkiss	USGS	FL	United States	Spatial ecology of the American Alligator (<i>Alligator mississippiensis</i>) and American Crocodile (<i>Crocodylus acutus</i>) in Estuarine Areas of Everglades National Park	161	Monday-Wednesday	6/4/12-6/6/12	Session One
Julia	Cherry	University of Alabama	AL	United States	Comparisons of Nitrogen Content among Wetland Plants and Effects on Local Environment	221	Wednesday-Friday	6/6/12-6/8/12	Session Two

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Jay	Choi	U.S. Geological Survey	VA	United States	Connectivity of Everglades Landscapes (CEL): a Tool for Relating Changing Flow Conditions to Functional Quality of Everglades Landscapes	240	Wednesday-Friday	6/6/12-6/8/12	Session Two
Caroline	Chong	James Cook University		Australia	Vegetation Persistence in Extreme Riverine Wetlands: Hydrology-mediated Reproductive Strategies drive Ecological Success in Melaleuca.	275	Wednesday-Friday	6/6/12-6/8/12	Session Two
Kurt	Chowanski	South Dakota School of Mines and Technology	SD	United States	Assessing Wetland Function Using Phosphorous Speciation	130	Monday-Wednesday	6/4/12-6/6/12	Session One
Patricia	Chow-Fraser	McMaster University		Canada	Differential use of wetland habitat by small fishes and a large predator in coastal marshes of eastern Georgian Bay, Lake Huron	258	Wednesday-Friday	6/6/12-6/8/12	Session Two
Patricia	Chow-Fraser	McMaster University		Canada	Increasing Coastal Wetland Fish Habitat Protection Under the Ontario Wetland Evaluation System	113	Monday-Wednesday	6/4/12-6/6/12	Session One
Daniel	Chuquin	Virginia Tech	VA	United States	Development of a Floodplain Connectivity Metric for the Improvement of Nutrient Flux Modeling in Monitored Stream Networks	244	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jérôme	Cimon-Morin	Université Laval		Canada	How to Use Ecosystem Services for Wetlands Conservation Planning in Remote Areas?	114	Monday-Wednesday	6/4/12-6/6/12	Session One
Mark	Clark	University of Florida	FL	United States	Prediction of Phosphorus Release from Wetland Soils	80	Monday-Wednesday	6/4/12-6/6/12	Session One
Paul	Conrads	USGS SCWRC	SC	United States	Everglades Depth Estimation Network (EDEN) Performance-Measure Products for the Evaluation of Everglades Restoration	157	Monday-Wednesday	6/4/12-6/6/12	Session One
Paul	Conrads	USGS SCWSC	SC	United States	Development of a Synthetic Hydrograph Application to Generate Inputs to the Everglades Depth Estimation Network (EDEN) Water-Surface Model	158	Monday-Wednesday	6/4/12-6/6/12	Session One
Paul	Conrads	USGS SCWSC	SC	United States	Water-Level Record Extension of the Everglades Depth Estimation Network (EDEN)	159	Monday-Wednesday	6/4/12-6/6/12	Session One

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Paul	Conrads	USGS SCWSC	SC	United States	Determining Changes in Hydrologic Behaviors in the Florida Everglades	160	Monday-Wednesday	6/4/12-6/6/12	Session One
Paul	Conrads	USGS SCWSC	SC	United States	Development of Sub-area Surface-Water Models within the Everglades Depth Estimation Network (EDEN) Model Domain	236	Wednesday-Friday	6/6/12-6/8/12	Session Two
Paul	Conrads	USGS	SC	United States	Quantify How Stage Variability Affects Plant Species Populations Using Paleoecological and Hydrological Time Series Data	237	Wednesday-Friday	6/6/12-6/8/12	Session Two
Craig	Conzelmann	USGS	LA	United States	Joint Ecosystem Modeling (JEM) Standards-Driven Software Development: Benefiting Greater Everglades and the Nation	184	Monday-Wednesday	6/4/12-6/6/12	Session One
Nicole	Cormier	US Geological Survey	LA	United States	Soil Surface Elevation Change Along a Tidal Freshwater Forested Wetland to Marsh Transition	324	Wednesday-Friday	6/6/12-6/8/12	Session Two
Alan	Covich	University of Georgia	GA	United States	Evaluating Wetland Ecosystem Services in the Okefenokee National Wildlife Refuge, Georgia, USA	121	Monday-Wednesday	6/4/12-6/6/12	Session One
Johnsely	Cyrus	North Carolina A&T State University	NC	United States	Carbon sequestration in constructed wetlands treated with swine wastewater	331	Wednesday-Friday	6/6/12-6/8/12	Session Two
W. Lee	Daniels	Virginia Tech	VA	United States	Effects of well design and sensor type on the measured hydroperiod of a high clay created wetland soil in Virginia, USA.	374	Wednesday-Friday	6/6/12-6/8/12	Session Two
Craig	Davis	Oklahoma State University	OK	United States	Response of Wetland Invertebrate Communities to Local and Landscape Factors in Oklahoma.	259	Wednesday-Friday	6/6/12-6/8/12	Session Two
Richard	Day	US Geological Survey	LA	United States	The Role of the Atchafalaya Basin Floodway in the Sediment Budget of Coastal Louisiana	276	Wednesday-Friday	6/6/12-6/8/12	Session Two
Kim	de Mutsert	George Mason University	VA	United States	Successes of restoration in Gunston Cove, an embayment of the tidal freshwater Potomac River	162	Monday-Wednesday	6/4/12-6/6/12	Session One

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Donald	Deis	Atkins	FL	United States	A Water Level Performance Measure for Everglades Restoration – Integrating Everglades and Florida Bay Restoration Requirements	131	Monday-Wednesday	6/4/12-6/6/12	Session One
Shawn	DeKeyser	North Dakota State University	ND	United States	Wetland Plant Community Responses to Sediment Removal in the Prairie Pothole Region	163	Monday-Wednesday	6/4/12-6/6/12	Session One
Joseph	Delesantro	University of Florida	FL	United States	The Effects of Hydrologic Mean Condition and Variation on Wetland Structure and Function	277	Wednesday-Friday	6/6/12-6/8/12	Session Two
Edgardo	Diaz-Ferguson	University of Georgia	GA	United States	Environmental DNA Detection of Aquatic Invasive Species: A Monitoring Tools for Loxahatchee National Wildlife Refuge	31	Monday-Wednesday	6/4/12-6/6/12	Session One
Kerby	Dobbs	Old Dominion University	VA	United States	Groundwater and stratigraphy in toe-slope/valley bottom wetlands, central Piedmont, Virginia, USA	278	Wednesday-Friday	6/6/12-6/8/12	Session Two
Rachel	Douglass	University of Florida	FL	United States	Linking Ecosystem Metabolism and Plant Species Composition through Ecological Stoichiometry	164	Monday-Wednesday	6/4/12-6/6/12	Session One
Robert	Doyle	Baylor Universtiy	TX	United States	Marsh Madness: A Science Education Adventure Focused On Wetland Environments	400	Wednesday-Friday	6/6/12-6/8/12	Session Two
Judith	Drexler	U.S. Geological Survey	CA	United States	Carbon storage at managed and natural marshes in the Waccamaw National Wildlife Refuge, South Carolina, USA	332	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jamie	Duberstein	Clemson University	GA	United States	Ecophysiological Proficiency of Mature Baldcypress on Hummocks and in Hollows Within a Freshwater Tidal Swamp	279	Wednesday-Friday	6/6/12-6/8/12	Session Two
Lindsay	Dunaj	University of New Orleans	LA	United States	Comparing Newly Building Wetlands in the Atchafalaya Bay, Louisiana and the Sacramento-San Joaquin Delta, California	218	Wednesday-Friday	6/6/12-6/8/12	Session Two
Melody	Durrett	University of Alaska Fairbanks	AK	United States	Incorporating wetland delineation skills into an undergraduate Wetland Ecology course	108	Monday-Wednesday	6/4/12-6/6/12	Session One

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Daniel	Dvoretz	Oklahoma State University	OK	United States	A REVIEW OF ANTHROPOGENIC LANDSCAPE DISTURBANCE EFFECTS ON WETLAND FUNCTION WITH RESPECT TO INTEGRATING LANDSCAPE METRICS INTO ASSESSMENTS OF WETLAND CONDITION	388	Wednesday-Friday	6/6/12-6/8/12	Session Two
Keith	Edwards	University of South Bohemia		Czech Republic	Nutrient and water level effects on Phalaris arundinacea and Carex acuta: A mesocosm experiment	32	Monday-Wednesday	6/4/12-6/6/12	Session One
Keith	Edwards	University of South Bohemia		Czech Republic	Eutrophication Effects on Plant-Soil Interactions in Wet Grasslands	304	Wednesday-Friday	6/6/12-6/8/12	Session Two
Christopher	Edwards	Florida International University	FL	United States	Recreational Angler Perspectives of Nonnative Fish Species and Mercury Advisories	115	Monday-Wednesday	6/4/12-6/6/12	Session One
Gretchen	Ehlinger	US Army Corps of Engineers			Innovative Solution for Storing and Retrieving Everglades Monitoring Data	165	Monday-Wednesday	6/4/12-6/6/12	Session One
Edem	Ekpe	University of Central Florida	FL	United States	Carbon Storage and Sequestration by Urban Wetland Forests in Orlando, Florida, USA	312	Wednesday-Friday	6/6/12-6/8/12	Session Two
Anthony	Esposito	ARCADIS-US	NY	United States	Restoring Wetlands at Hazardous Waste Sites	260	Wednesday-Friday	6/6/12-6/8/12	Session Two
Ke	Feng	South Florida Water Management District	FL	United States	Integrated Hydrologic Modeling for Wetland Restoration - Lessons from Picayune Strand Project	142	Monday-Wednesday	6/4/12-6/6/12	Session One
Pamela	Fetterman	E Sciences, Inc.	FL	United States	Pioneering large-scale coastal wetland and prairie restoration design in southeastern Texas	375	Wednesday-Friday	6/6/12-6/8/12	Session Two
Brian	Files	Parsons	FL	United States	Benefits of Effective Program Management in Ecosystem Restoration	302	Wednesday-Friday	6/6/12-6/8/12	Session Two
Mario	Flunory	Stony Brook	NY	USA	A Behavioral Study of Sharks in Captivity	365	Wednesday-Friday	6/6/12-6/8/12	Session Two
Alexander	Forde	University of Maryland	MD	United States	Predation and productivity gradients affect arthropods, herbivory and plant architecture in mangrove forests	17	Monday-Wednesday	6/4/12-6/6/12	Session One
Sandra	Fox	St Johns River Water Management District	FL	United States	Wetlands correction factors for LiDAR Digital Elevation Models	380	Wednesday-Friday	6/6/12-6/8/12	Session Two

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Sandra	Fox	St Johns River Water Management District	FL	United States	Integrated GIS model for evaluating surface water withdrawal impacts on wetlands	381	Wednesday-Friday	6/6/12-6/8/12	Session Two
Steve	Friedman	National Park Service	FL	United States	Developing Realized Niche Space Probability Distribution Functions for the Everglades Landscape Vegetation Succession Model	205	Wednesday-Friday	6/6/12-6/8/12	Session Two
Keita	Furukawa	NILIM		Japan	Conceptual model of habitat restoration for Gobies in Tokyo Bay, Japan	313	Wednesday-Friday	6/6/12-6/8/12	Session Two
David	Gandy	Florida International University	FL	United States	Nonnative Fishes in Freshwater Canals of the Florida Everglades: Implications for Better Management	33	Monday-Wednesday	6/4/12-6/6/12	Session One
Piero	Gardinali	Florida International university	FL	United States	Trace Metals in Sediments from Three Protected Areas in South Florida: Assessment of Background Concentrations and Evaluation of Risk for Management Purposes	71	Monday-Wednesday	6/4/12-6/6/12	Session One
Rob	Gatewood	Town of Barnstable MA	MA	United States	Back Home with Hydrilla: A Massachusetts Town and the Good Fight	36	Monday-Wednesday	6/4/12-6/6/12	Session One
George	Geatz	Illinois Natural History Survey	IL	United States	Plant Nutrient Availability and Soil Organic Matter Decomposition Response to Prescribed Winter Burns in Mid-Atlantic Tidal Marshes	356	Wednesday-Friday	6/6/12-6/8/12	Session Two
Heather	Golden	US EPA, ORD, NERL	OH	United States	Watershed-Scale Effects of Isolated Wetlands on Downstream Hydrology: Modeling Approaches	252	Wednesday-Friday	6/6/12-6/8/12	Session Two
Siobhan	Gorham	University of Mississippi	FL	United States	Can the Soil Seed Bank Provide a means for the Restoration of Riparian Ecosystems?	138	Monday-Wednesday	6/4/12-6/6/12	Session One
Kevin	Grace	DB Environmental, Inc.	FL	United States	Carbon and Phosphorus Dynamics of Dissolved Organic Substances in Low-nutrient Surface Waters from South Florida Constructed Treatment Wetlands and Natural Marshes	50	Monday-Wednesday	6/4/12-6/6/12	Session One
Xinxi	Guo	Shanxi Provincial Department of Water Resources		China	The Fen River Watershed Hydro-Ecosystem Restoration	126	Monday-Wednesday	6/4/12-6/6/12	Session One
Greenville	Hall	St. Johns River Water Mgmt District	FL	United States	Minimum Flows and Levels: Balancing Hydrologic Requirements of Natural Resources and Human Uses	116	Monday-Wednesday	6/4/12-6/6/12	Session One

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Zachary	Halstead	HDR Alaska, Inc.	AK	United States	Landscape-Scale Wetland Functional Assessment on Alaska's North Slope	389	Wednesday-Friday	6/6/12-6/8/12	Session Two
Elizabeth	Harrison	Florida International University	FL	United States	Determining the source(s) for <i>Cichlasoma urophthalmus</i> (Mayan cichlid) in south Florida	37	Monday-Wednesday	6/4/12-6/6/12	Session One
Kristen	Hart	USGS	FL	United States	Home range, habitat use, and movement patterns of non-native Burmese pythons in Everglades National Park	41	Monday-Wednesday	6/4/12-6/6/12	Session One
Kristen	Hart	USGS	FL	United States	Movement and Activity of invasive Burmese pythons (<i>Python molurus bivittatus</i>) determined through use of acceleration and GPS loggers	42	Monday-Wednesday	6/4/12-6/6/12	Session One
Sarah	Hartung	Environmental Science Associates	OR	United States	Local Wetland Inventories and ORWAP: Applications for Assessing, Protecting, and Mitigating Wetlands	390	Wednesday-Friday	6/6/12-6/8/12	Session Two
Petter	Hedberg	University of Warsaw		Poland	Does removal of degraded peat help to restore mire ecosystem services? Results of a field experiment	166	Monday-Wednesday	6/4/12-6/6/12	Session One
Kevin	Hedge	BlueWing Environmental Solutions & Technologies, LLC	MD	United States	Environmental compliance and ecological restoration with floating wetland islands.	272	Wednesday-Friday	6/6/12-6/8/12	Session Two
Thomas	Hess	Auburn University		United States	Determining the Effect of Oil Weathering and Dosage on <i>Juncus roemerianus</i> : A Wetland Mesocosm Experiment	89	Monday-Wednesday	6/4/12-6/6/12	Session One
David	Ho	University of Hawaii	HI	United States	Determination of Flow Velocity in the Everglades at Different Scales: Results from SF6 Tracer Release Experiments and Acoustic Doppler Velocimeter Measurements	254	Wednesday-Friday	6/6/12-6/8/12	Session Two
Marjorie	Holland	University of Mississippi	MS	United States	Conservation of Nine Ponds through Three Decades: Consequences for marsh vegetation	117	Monday-Wednesday	6/4/12-6/6/12	Session One
Linda	Hooper-Bùi	Louisiana State University	LA	United States	Silent Spring Revisited: Insects and Spiders in Louisiana's Saltwater Marshes after the Macondo Blowout	90	Monday-Wednesday	6/4/12-6/6/12	Session One
Anyia	Hopple	Indiana University	IN	United States	Managed Disturbance Enhances Biodiversity of Restored Wetlands in the Agricultural Midwest	18	Monday-Wednesday	6/4/12-6/6/12	Session One

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First Name	Last Name	Organization	ST	Country	Abstract Title	Poster Number	Day	Date	Session Title
Althea	Hotaling	University of Florida	FL	United States	A Seagrass Habitat Suitability Index Spatial Model	202	Wednesday-Friday	6/6/12-6/8/12	Session Two
Rebecca	Howard	U.S. Geological Survey	LA	United States	Phragmites australis Expansion in a Restored Brackish Marsh Documented at Different Time Scales	40	Monday-Wednesday	6/4/12-6/6/12	Session One
Hwey-Lian	Hsieh	Academia Sinica		Taiwan	Pattern of Greenhouse Gases Emission from Rice-field Wetland	337	Wednesday-Friday	6/6/12-6/8/12	Session Two
Hwey-Lian	Hsieh	Academia Sinica		Taiwan	On the Mechanism and Valuation of Ecological Services of the Danshuei River, Taiwan	355	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jing	Hu	University of Florida	FL	United States	Hydrological and Biogeochemical Controls on Nitrous Oxide (N ₂ O) Production and Consumption in Isolated Wetlands in Grassland Ecosystems	222	Wednesday-Friday	6/6/12-6/8/12	Session Two
Shu-Mei	Huang	National Cheng Kung University		Taiwan	The Emery Analysis on Coastal Wetland Ecosystem of Chiku, Taiwan	206	Wednesday-Friday	6/6/12-6/8/12	Session Two
Herman	Hudson III	Virginia Institute of Marine Science	VA	United States	Two Year Survival and Growth of Seven Wetland Tree Species in Three Hydrologically Distinct Habitats	376	Wednesday-Friday	6/6/12-6/8/12	Session Two
Beth	Huettel	Florida State University	FL	United States	Methane Production Pathways in Subtropical (Everglades) and Tropical (Panama) Wetlands	286	Wednesday-Friday	6/6/12-6/8/12	Session Two
Margaret	Hunter	USGS	FL	United States	Next Generation sequencing, Molecular Tool Development, and Genetic Characterization of the Invasive Burmese Python in the Greater Everglades Ecosystem	43	Monday-Wednesday	6/4/12-6/6/12	Session One
Gwenaël	Imfeld	Laboratory of Hydrology and Geochemistry, CNRS, France		France	Transfer and Biodegradation of Chloroacetamide Herbicides in Lab-Scale Wetlands	61	Monday-Wednesday	6/4/12-6/6/12	Session One
Gwenaël	Imfeld	Laboratory of Hydrology and Geochemistry, CNRS, France		France	Copper Isotope Fractionation: a Proxy for Biogeochemical Processes in Wetlands Receiving Copper-Contaminated Runoff?	72	Monday-Wednesday	6/4/12-6/6/12	Session One
Dulce	Infante Mata	El Colegio de la Frontera Sur		Mexico	Phenology of the species of tropical forests wetlands in the coastal plain of Veracruz, Mexico	287	Wednesday-Friday	6/6/12-6/8/12	Session Two

First Name	Last Name	Organization	ST	Country	Abstract Title	Poster Number	Day	Date	Session Title
Patrick	Inglett	University of Florida	FL	United States	Seasonal Dynamics of Soil Nitrogen Processing in Contrasting Seasonally-Flooded, Calcareous, Subtropical Wetlands	51	Monday-Wednesday	6/4/12-6/6/12	Session One
Patrick	Inglett	University of Florida	FL	United States	Temperature effects on anaerobic C processing in two subtropical peat soils of differing vegetation	52	Monday-Wednesday	6/4/12-6/6/12	Session One
Daniel	Irick	University of Florida	FL	United States	Mechanism for Soil Stable Nitrogen Isotope Ratio and Phosphorus Enrichment in Tree Islands	261	Wednesday-Friday	6/6/12-6/8/12	Session Two
Colleen	Iversen	Environmental Sciences Division/Ecosystem Science, Climate Change Science Institute	TN	United States	Spruce-Peatland Responses Under Climatic and Environmental Change: An In Situ Warming by CO ₂ Manipulation of a Characteristic High-Carbon Ecosystem	333	Wednesday-Friday	6/6/12-6/8/12	Session Two
Kyla	Iwinski	Applied Polymer Systems, Inc.	GA	United States	Polymer Enhanced Best Management Practices (PEBMPs): Wetland Water Quality, Construction, and Maintenance	74	Monday-Wednesday	6/4/12-6/6/12	Session One
Fernando	Jaramillo	Stockholm University		Sweden	Shifts in Evapotranspiration due to Historical Wet Meadowland Conversion to Agriculture in Sweden	329	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jahuan	Jarrett	Martin Univ.	IN	USA	Why Do Small Ponds Really Matter? A Case of Eagle Creek Park, Indianapolis, IN	366	Wednesday-Friday	6/6/12-6/8/12	Session Two
Michael	Jerauld	Azurea, Inc.	FL	United States	Long-Term Effects of Creek Channelization on Riparian Swamps in Central Florida, US	280	Wednesday-Friday	6/6/12-6/8/12	Session Two
Bingbing	Jiang	Ohio state university	OH	United States	The System of Integrated Subsurface Flow Constructed Wetland Treating Domestic Sewage in Beijing, China	348	Wednesday-Friday	6/6/12-6/8/12	Session Two
James	Johnson	Florida Atlantic University	FL	United States	Estimating Everglades Peat Vulnerability to Combustion	357	Wednesday-Friday	6/6/12-6/8/12	Session Two
Christopher	Jones	University of Arizona	AZ	United States	Cooperative Extension Master Watershed Steward Program and Wetland Education Opportunities	110	Monday-Wednesday	6/4/12-6/6/12	Session One
John	Jones	USGS	VA	United States	Measuring and modeling spatiotemporal variation in vegetative flow resistance in wetlands and floodplains	253	Wednesday-Friday	6/6/12-6/8/12	Session Two

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First Name	Last Name	Organization	ST	Country	Abstract Title	Poster Number	Day	Date	Session Title
Michael	Josselyn	WRA, Inc	CA	United States	San Dieguito Wetlands Restoration: A Twenty Year Odyssey in Restoring a Southern California Lagoon	143	Monday-Wednesday	6/4/12-6/6/12	Session One
Wolfgang	Junk	Federal University of Mato Grosso		Brazil	Traditional low-density cattle ranching as a tool for the protection of the Pantanal	123	Monday-Wednesday	6/4/12-6/6/12	Session One
Patricia	Kandus	Universidade Nacional de San Martin		Argentina	Monitoring Paraná River wetland dynamics using MODIS NDVI time series	262	Wednesday-Friday	6/6/12-6/8/12	Session Two
Patricia	Kandus	Universidade Nacional de San Martin		Argentina	Multitemporal Remote Sensing Approach for Mapping Wetlands Shallow Lakes in the Paraná River Floodplain	281	Wednesday-Friday	6/6/12-6/8/12	Session Two
Patricia	Kandus	Universidade Nacional de San Martin		Argentina	Plant Functional Types Identification in the Lower Paraná River Floodplain, Argentina	223	Wednesday-Friday	6/6/12-6/8/12	Session Two
David	Kaplan	University of Florida	FL	United States	Multiple tracer study in a small, natural wetland in the humid tropics of Costa Rica	288	Wednesday-Friday	6/6/12-6/8/12	Session Two
Veerabhadra	Karri	SFWMD	FL	United States	Evaluation of Alternatives for WCA-3 Decompartmentalization Project	144	Monday-Wednesday	6/4/12-6/6/12	Session One
Miranda	Kearney	State University of New York at Binghamton	NY	United States	Inorganic nitrogen dynamics in an urban constructed wetland under base flow and storm flow conditions	314	Wednesday-Friday	6/6/12-6/8/12	Session Two
Lawrence	Keenan	St. Johns River Water Management District	FL	United States	Relationship between Soil Core Diameter and Nutrient Flux	53	Monday-Wednesday	6/4/12-6/6/12	Session One
Dan	Keese	USDA-NRCS	TX	United States	Wetland restoration on the Texas Gulf Coast: heavy clay and high pH	133	Monday-Wednesday	6/4/12-6/6/12	Session One
Suzanne	Kennedy	Floravista, Inc.	FL	United States	Applying SOFIA Classifications to Herbaceous and Graminoid Dominated Plant Communities Within the Hole-in-the-Donut, Everglades National Park	168	Monday-Wednesday	6/4/12-6/6/12	Session One
Amy	Keyworth	NCDENR	NC	United States	Isolated Wetlands - The Groundwater Connection – 2. Hydrogeology	246	Wednesday-Friday	6/6/12-6/8/12	Session Two
Anwar	Khan	HDR EOC	FL	United States	Everglades Ecosystem Restoration Target Validation	145	Monday-Wednesday	6/4/12-6/6/12	Session One

First Name	Last Name	Organization	ST	Country	Abstract Title	Poster Number	Day	Date	Session Title
Michelle	Kharbanda	DB Environmental, Inc.	FL	United States	Sediment Porewater Chemistry and Phosphorus Release for Parallel Emergent Macrophyte and Submerged Macrophyte Treatment Wetlands	54	Monday-Wednesday	6/4/12-6/6/12	Session One
Daehyun	Kim	University of Kentucky	KY	United States	Biogeomorphic Feedbacks Drive Dynamics of Vegetation–Landform Complex in a Coastal Riparian System	295	Wednesday-Friday	6/6/12-6/8/12	Session Two
Heung-Tae	Kim	Seoul National University		Korea-Republic of (KOR)	Effects of Water Condition on Survival and Growth of <i>Persicaria thunbergii</i> Seedling	134	Monday-Wednesday	6/4/12-6/6/12	Session One
Palmer	Kinser	St. Johns River Water Management District	FL	United States	Vegetation Changes Along a Gradient of Salinity in the Ortega River of Northeast Florida	289	Wednesday-Friday	6/6/12-6/8/12	Session Two
Anna	Kizilova	Winogradsky Institute of Microbiology		Russian Federation	Methanotrophic Community Is Different in Natural and Drained Peatlands	64	Monday-Wednesday	6/4/12-6/6/12	Session One
Jessica	Klassen	Florida Atlantic University	FL	United States	Hydroperiod, Resources, and Competitor Density Affects Condition of Everglades' Fish and Crayfish	135	Monday-Wednesday	6/4/12-6/6/12	Session One
Dale	Knapp	Stantec	ME	United States	Adaptive Techniques for Large-Scale Wetland Delineation	391	Wednesday-Friday	6/6/12-6/8/12	Session Two
Natalie	Knorp	Florida Atlantic University	FL	United States	Drought and Large Fish Re-Colonization Have Variable Effects on Macroinvertebrates in Experimental Wetlands.	290	Wednesday-Friday	6/6/12-6/8/12	Session Two
Dennis	Konnerup	University of Western Australia	WA	Australia	Physiological Responses to Submergence in <i>Tecticornia</i> Species growing at Salt Lakes in Australia	296	Wednesday-Friday	6/6/12-6/8/12	Session Two
Kurt	Kowalski	U.S. Geological Survey	MI	United States	Great Lakes Coastal Wetland Rehabilitation: Synthesizing Year 1 Responses to Hydrologic Reconnection	169	Monday-Wednesday	6/4/12-6/6/12	Session One
Danielle	Kreeger	Partnership for the Delaware Estuary	DE	United States	Coastal wetlands of the Delaware Estuary: Past, Present and Future.	118	Monday-Wednesday	6/4/12-6/6/12	Session One
Robert	Kroger	Mississippi State University	MS	United States	Best management practices for water resource conservation: what are we learning?	75	Monday-Wednesday	6/4/12-6/6/12	Session One

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Parmesh	Kumar	Kurukshetra University		India	Status and Threats to Wetland Birds of Chhilchhila Wildlife Sanctuary in Haryana, India: An important Wintering Ground for Migratory Birds	25	Monday-Wednesday	6/4/12-6/6/12	Session One
Katie	Laakkonen	City of Naples	FL	United States	Oyster Reef Health and Restoration Potential Along a Salinity Gradient in Naples Bay, Florida	170	Monday-Wednesday	6/4/12-6/6/12	Session One
Marcelo	Lago	DHI	FL	United States	Water Quality Modeling of Golden Gate Canal System	81	Monday-Wednesday	6/4/12-6/6/12	Session One
Charles	Lane	US Environmental Protection Agency	OH	United States	Ambient Ex-Situ Denitrification in Isolated Wetlands of Ohio, North Carolina, and Florida	224	Wednesday-Friday	6/6/12-6/8/12	Session Two
James	Lange	Florida Atlantic University	FL	United States	Synergistic Effects of Invasive Species (<i>Melaleuca quinquenervia</i>) and Management Practices on Native Plant Community Resilience in the Florida Everglades	44	Monday-Wednesday	6/4/12-6/6/12	Session One
Laurel	Larsen	U.S. Geological Survey	VA	United States	Hydrologic Connectivity as a Window into Fluvial Landscape Pattern Origin, Degradation, and Restoration	241	Wednesday-Friday	6/6/12-6/8/12	Session Two
Megan	Larson	SUNY Binghamton	NY	United States	Similarity between the Standing Vegetation and Seed Bank Varies at Two Spatial Scales in an Urban Retention Wetland	315	Wednesday-Friday	6/6/12-6/8/12	Session Two
Edwige	Lauture	Stony Brook	NY	USA	Scaling of Respiration with Body Size in a Suspension-Feeding Gastropod	367	Wednesday-Friday	6/6/12-6/8/12	Session Two
Seungjun	Lee	University of Florida	FL	United States	Insights into the Management of Wetlands under Disturbance from Experimental and Theoretical Models	119	Monday-Wednesday	6/4/12-6/6/12	Session One
Sylvia	Lee	Florida International University	FL	United States	Diatom-based Assessment of Hydrology and Calcareous Periphyton Abundance in a Subtropical Wetland	136	Monday-Wednesday	6/4/12-6/6/12	Session One
Todd	Lemein	Oregon State University	OR	United States	Wetland Vegetation Reestablishment Following Large Sedimentation (Burial) Events	297	Wednesday-Friday	6/6/12-6/8/12	Session Two

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Yu Sing	Leung	City University of Hong Kong		Hong Kong	Effect of Below-ground Vegetation on Macrobenthic Community of Two Mangrove Swamps in Hong Kong: Implication of Plantation and Plant Invasion	171	Monday-Wednesday	6/4/12-6/6/12	Session One
Michael	Lewis	USEPA	FL	United States	Toxicities of oils, dispersants and dispersed oils to aquatic plants:summary and database value to resource sustainability	91	Monday-Wednesday	6/4/12-6/6/12	Session One
Xia	Li	Beijing Normal University		China	An Ecosystem Model for Detritus Decomposition in a Eutrophic Wetland, China	55	Monday-Wednesday	6/4/12-6/6/12	Session One
Chunyan	Li	Louisiana State University	LA	United States	On the Calculation of the Flux of Materials through Wetlands and Estuaries under Oscillatory Motion	100	Monday-Wednesday	6/4/12-6/6/12	Session One
Melinda	Lohmann	USGS	FL	United States	Estimation of Land-Surface Elevation Using Aerial Photos and Parameter Estimation Techniques for Hindcast Modeling of Everglades Hydrology	207	Wednesday-Friday	6/6/12-6/8/12	Session Two
Omar	Lopez	Institute of Advanced Scientific Research and High Technology Services (INDICASAT)		Panama	The Wetlands Working Group: opportunities for collaborative research in tropical wetlands of Panama	360	Wednesday-Friday	6/6/12-6/8/12	Session Two
Andrew	LoSchiavo	USACE	FL	United States	Everglades Collaborative Adaptive Management Program Progress	146	Monday-Wednesday	6/4/12-6/6/12	Session One
Catherine	Lovelock	University of Queensland		Australia	Carbon sequestration in mangroves and salt marshes in South East Queensland	182	Monday-Wednesday	6/4/12-6/6/12	Session One
Scott	Luchessa	ENVIRON International Corporation	WA	United States	Evolution of Self-designed Wetlands in the Snohomish River Estuary, Washington	172	Monday-Wednesday	6/4/12-6/6/12	Session One
Mark	Lund	Edith Cowan University	WA	Australia	Can mine pit lakes be representative of regional water bodies? A case study from silica sand mining.	137	Monday-Wednesday	6/4/12-6/6/12	Session One
Shirley	Mahabali	Ghent university		Belgium	Mitigation of Two Insecticides by Wetland Plants: Feasibility Study for the Treatment of Agricultural Runoff in Suriname	316	Wednesday-Friday	6/6/12-6/8/12	Session Two
MANOJ	MALIK	FORENSIC SCIENCE LABORATORY, MADHUBAN (HARYANA, INDIA)		India	A Study of Fresh Water Diatoms of Religious Water Ponds in Kurukshetra, Haryana (India)	8	Monday-Wednesday	6/4/12-6/6/12	Session One

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Michael	Manna	South Florida Water Management District	FL	United States	Best Management Practices in the Everglades: Using an Herbicide to Redefine the Leading Edge of the Nutrient Enriched Cattail Zone	147	Monday-Wednesday	6/4/12-6/6/12	Session One
Luca	Marazzi	UCL		United Kingdom	What Drives Growth and Biodiversity of Algae in the Okavango Delta?	291	Wednesday-Friday	6/6/12-6/8/12	Session Two
Joy	Marburger	self	IN	United States	Does Hybridization Contribute to Cattail Invasion of Wetlands in the Midwest?	45	Monday-Wednesday	6/4/12-6/6/12	Session One
Darryl	Marois	The Ohio State University	OH	United States	Modeling the Effects of Macrophyte Communities on Phosphorus Retention at Low Concentrations	225	Wednesday-Friday	6/6/12-6/8/12	Session Two
Luke	Martinson	WEST, Inc.	WY	United States	An Investigation of Peatlands: Floating Mat Fens	226	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jeffrey	Matthews	University of Illinois	IL	United States	Impacts of Flooding on Successional Species Turnover in Restored Floodplain Wetlands	298	Wednesday-Friday	6/6/12-6/8/12	Session Two
Frank	Mazzotti	University of Florida	FL	United States	Diet of invasive Burmese pythons (<i>Python molurus bivittatus</i>) in Southern Florida	46	Monday-Wednesday	6/4/12-6/6/12	Session One
Jeremy	McBryan	South Florida Water Management District	FL	United States	Everglades Stormwater Treatment Areas: Two Decades of Integrating Science and Engineering for Ecosystem Restoration	352	Wednesday-Friday	6/6/12-6/8/12	Session Two
Lori	McCloud	St Johns River Water Management District	FL	United States	Potential Effects of Water Management Practices on Wetland-Dependent Species in the St. Johns River, Florida	282	Wednesday-Friday	6/6/12-6/8/12	Session Two
Eric	McCulley	SWCA Environmental Consultants	UT	United States	Planting Success of Riparian Shrubs and Trees on an Urban Stream Restoration in Utah	173	Monday-Wednesday	6/4/12-6/6/12	Session One
Kyle	McDonald	City College of New York	NY	United States	An Inundated Wetlands Earth System Data Record: Global Monitoring of Wetland Extent and Dynamics	361	Wednesday-Friday	6/6/12-6/8/12	Session Two
Gabriel	McGowan	University of North Carolina at Chapel Hill	NC	United States	Quantifying Methane Cycling Dynamics in Alaskan Arctic Lakes	338	Wednesday-Friday	6/6/12-6/8/12	Session Two
S. Kyle	McKay	US Army Corps of Engineers	GA	United States	Forecasting Coastal Change under Sea Level Rise: A Mid-Atlantic Case Study	322	Wednesday-Friday	6/6/12-6/8/12	Session Two

First Name	Last Name	Organization	ST	Country	Abstract Title	Poster Number	Day	Date	Session Title
Daniel	McLaughlin	University of Florida	FL	United States	Specific Yield at Ecosystem and Landscape Scales to Infer Local and Regional Hydrologic Functions of Isolated Wetlands	247	Wednesday-Friday	6/6/12-6/8/12	Session Two
John	McLeod	Old Dominion University	VA	United States	Hydrogeologic conditions that affect restored pitcher plant bog habitat, SE Virginia, USA	227	Wednesday-Friday	6/6/12-6/8/12	Session Two
Shannon	McMorrow	AMEC E&I, Inc.	FL	United States	Wetland Restoration on Florida Cattle Ranches: NRCS Wetland Reserve Program	148	Monday-Wednesday	6/4/12-6/6/12	Session One
Cassandra	Medvedeff	University of Florida	FL	United States	Evaluation of Direct and Indirect Phosphorus Limitation of Methanogenic Pathways in Calcareous Subtropical Wetland Soils	339	Wednesday-Friday	6/6/12-6/8/12	Session Two
Patricia	Metz	U.S. Geological Survey	FL	United States	Factors that Influence the Hydrologic Recovery of Wetlands in the Northern Tampa Bay Area, Florida	101	Monday-Wednesday	6/4/12-6/6/12	Session One
Patricia	Metz	U.S. Geological Survey	FL	United States	Analysis of Hydroperiod in Isolated Wetlands on Well Fields in the Northern Tampa Bay Region	102	Monday-Wednesday	6/4/12-6/6/12	Session One
Beth	Middleton	U.S. Geological Survey, National Wetlands Research Center	LA	United States	Freshwater Diversions Provided Pulsed Hydrology to Coastal Swamps for Remediation	92	Monday-Wednesday	6/4/12-6/6/12	Session One
Jarrold	Miller	USDA-ARS	SC	United States	Greenhouse Gas Emissions from Natural, Restored, and Prior-converted Wetlands of the Mid-Atlantic	340	Wednesday-Friday	6/6/12-6/8/12	Session Two
Loretta	Mokry	Alan Plummer Associates, Inc.	TX	United States	George W. Shannon Wetlands Water Recycling Facility – From Research to Reality	349	Wednesday-Friday	6/6/12-6/8/12	Session Two
Joshua	Moore	CSUS Environmental Dept	CA	United States	Fire, Floodplains and Fish: Conservation of Native Fishes in the Riverine and Floodplain Wetlands of the Cosumnes River, California	283	Wednesday-Friday	6/6/12-6/8/12	Session Two
Matt	Moore	USDA Agricultural Research Service	MS	United States	Using Ditch Vegetation to Reduce Pesticide Loads in Runoff: First Flush and Beyond	76	Monday-Wednesday	6/4/12-6/6/12	Session One
Joseph	Morina	Virginia Commonwealth University	VA	United States	Species-specific effects of vegetation on the abundance of denitrifying bacteria in freshwater wetlands	65	Monday-Wednesday	6/4/12-6/6/12	Session One

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James B	Murray	USGS	VA	United States	Results From a Ground Penetrating Radar Survey at the Mouth of the South Harney River, Southwest Coastal Region, Everglades National Park, Florida.	327	Wednesday-Friday	6/6/12-6/8/12	Session Two
David	Mushet	U.S. Geological Survey	ND	United States	Bias in Traditional Estimates of Ecological Diversity in Dynamic Wetland Ecosystems	9	Monday-Wednesday	6/4/12-6/6/12	Session One
Gonasageran	Naidoo	University of KwaZulu-Natal		South Africa	Nitrogen Limitation in Dwarf Avicennia marina mangroves	208	Wednesday-Friday	6/6/12-6/8/12	Session Two
Ron	Nelson	Whatcom Farm Friends	WA	United States	Restoration of a Riparian Buffer: Traditional and Non-Market Benefits and Costs	124	Monday-Wednesday	6/4/12-6/6/12	Session One
Paul	Nelson	USGS	FL	United States	The Drowning of a Coastal Estuary: How Hurricanes and Sea-Level Rise Altered Big Sable Creek.	323	Wednesday-Friday	6/6/12-6/8/12	Session Two
Eric	Nelson	Savannah River National Laboratory	SC	United States	Long-Term Treatment of Industrial Discharge for Metals with Constructed Wetlands	353	Wednesday-Friday	6/6/12-6/8/12	Session Two
Cristina	Neves	Universidade de São Paulo		Brazil	Private Natural Reserves as a Strategy for the Conservation of the Brazilian Pantanal	127	Monday-Wednesday	6/4/12-6/6/12	Session One
Thomas	Newcomb	Environ	PA	United States	eDNA Monitoring: Presence-absence Sampling Technique for a Rare Amphibian Species	4	Monday-Wednesday	6/4/12-6/6/12	Session One
Loc	Nguyen Xuan	Aarhus University		Denmark	Photosynthetic responses to temperature in the genus Phragmites. (Poaceae): an important mediator of climate responses?	334	Wednesday-Friday	6/6/12-6/8/12	Session Two
Nhan	Nguyen	Louisiana State University	LA	United States	Effects of a Large Mississippi River Diversion on Estuarine Sediment Phosphorus Concentrations and Internal Loading	82	Monday-Wednesday	6/4/12-6/6/12	Session One
Jun	Nishihiro	University of Tokyo		Japan	Declining Species Richness and Restoration Potential of Aquatic Plants in Japanese Lakes	19	Monday-Wednesday	6/4/12-6/6/12	Session One
Chris	Noble	US Army Corps of Engineers	MS	United States	HGM poster	392	Wednesday-Friday	6/6/12-6/8/12	Session Two
Anna	Normand	University of Florida	FL	United States	Review of Novel Analytical Approaches to Determine Soil Organic Matter Stability in Wetlands	56	Monday-Wednesday	6/4/12-6/6/12	Session One

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Catia	Nunes da Cunha	UFMT		Brazil	Modelling space-time dynamics of wetland vegetation of the Pantanal of Mato Grosso (Brazil) based on neighborhood interaction and flooding effect	299	Wednesday-Friday	6/6/12-6/8/12	Session Two
Martha	Nungesser	South Florida Water Management District	FL	United States	Everglades Patterning: Altered Water, Altered Landscape	263	Wednesday-Friday	6/6/12-6/8/12	Session Two
Todd Z.	Osborne	University of Florida	FL	United States	Effective use of prescribed fire for the control of Melaleuca quinquenervia and Lygodium microphyllum in the Florida Everglades	358	Wednesday-Friday	6/6/12-6/8/12	Session Two
Coral J.	Pacheco Figueroa	DACBiol-UJAT		Mexico	Importance of Mangroves During the Rainy Season for the Herpetofauna	26	Monday-Wednesday	6/4/12-6/6/12	Session One
Angela	Padeletti	Partnership for the Delaware Estuary	DE	United States	Comparative analysis of coastal wetland health in the Delaware Estuary assessed using rapid methods	393	Wednesday-Friday	6/6/12-6/8/12	Session Two
Erin	Page	HDR Engineering	WA	United States	Functional Assessment of Alpine Wetland Habitats at a Pumped Storage Hydroelectric Facility in the Rocky Mountains of Colorado	394	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jihyun	Park	Seoul National University		Korea-Republic of (KOR)	Critical Determinants of Vegetation Composition at Abandoned Paddy Terraces in a Montane Valley: Founder Effect and Water Depth	228	Wednesday-Friday	6/6/12-6/8/12	Session Two
Joong-Wook	Park	Troy University	AL	United States	Changes in Microbial Populations Affected by Oil Spill in Gulf of Mexico	66	Monday-Wednesday	6/4/12-6/6/12	Session One
Kelly	Parks	Nova Southeastern University	FL	United States	Trophic Dynamics in Mangrove Ecosystems in Port Everglades	209	Wednesday-Friday	6/6/12-6/8/12	Session Two
Douglas	Partridge	ARCADIS U.S., Inc.	NY	United States	Restoration of a Gulf of Mexico Coastal Salt Marsh Ecosystem Through Beneficial Use of Dredge Sediments: Successes, Challenges and Lessons Learned from Four Years of Monitoring and Adaptive Management	174	Monday-Wednesday	6/4/12-6/6/12	Session One
Rajendra	Paudel	University of Florida	FL	United States	Predicting Everglades nutrient distributions in response to climate change projections	330	Wednesday-Friday	6/6/12-6/8/12	Session Two

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Elise	Pearlstine	University of Florida	FL	United States	Amphibians in Agricultural Fields and Natural Areas in South Florida	27	Monday-Wednesday	6/4/12-6/6/12	Session One
Leonard	Pearlstine	National Park Service	FL	United States	simGlades: A Web Site for Sharing Everglades Ecological Modeling Information	111	Monday-Wednesday	6/4/12-6/6/12	Session One
Leonard	Pearlstine	National Park Service	FL	United States	Multi-Agency Ecological Models for Everglades Restoration	112	Monday-Wednesday	6/4/12-6/6/12	Session One
Bradley	Pekas	ECT	FL	United States	An Effective Tool for Post-Reclamation Wetland Design: Wetland Hydroperiod Water Balance Model	248	Wednesday-Friday	6/6/12-6/8/12	Session Two
Daniel	Penniman	University of Florida	FL	United States	A Cost Analysis of Low Impact Development Stormwater Treatment Methods in Florida	77	Monday-Wednesday	6/4/12-6/6/12	Session One
Philip	Peterson	Martin Univ.	IN	USA	Assessing the Effect of Human Disturbance on Lilly Lake Water Parameters	368	Wednesday-Friday	6/6/12-6/8/12	Session Two
Matthew	Petkewich	U.S. Geological Survey	SC	United States	Using Inferential Sensors for Quality Control of the Everglades Depth Estimation Network (EDEN)	176	Monday-Wednesday	6/4/12-6/6/12	Session One
Samuel	Pierce	Mississippi State University	MS	United States	Effects of Species Composition and Diversity on Dissolved Nutrients in Stair-Step Mesocosms	83	Monday-Wednesday	6/4/12-6/6/12	Session One
Samuel	Pierce	Mississippi State University	MS	United States	A Split-root Approach to Monitor Responses of Salix nigra to Spatial Heterogeneity in Soil Redox	300	Wednesday-Friday	6/6/12-6/8/12	Session Two
Henrietta	Pitkänen	University of Helsinki		Finland	Reed Flads: Unique but Little-Known Wetland Environments in the Northern Baltic Sea	10	Monday-Wednesday	6/4/12-6/6/12	Session One
Patrick	Pitts	U.S. Fish & Wildlife Service	FL	United States	A Salinity Performance Measure for Everglades Restoration Planning and Assessment	132	Monday-Wednesday	6/4/12-6/6/12	Session One
Geoffrey	Pociask	Prairie Research Institute, University of Illinois	IL	United States	Flood Exposure and Plant Community Characteristics in Restored Floodplain Wetlands	249	Wednesday-Friday	6/6/12-6/8/12	Session Two
Erika	Podest	NASA-Jet Propulsion Laboratory	CA	United States	Classifying Palm Swamp Wetland Ecosystems and Assessing their Inundation State Using High and Low Resolution Microwave Remote Sensing Data	292	Wednesday-Friday	6/6/12-6/8/12	Session Two

First Name	Last Name	Organization	ST	Country	Abstract Title	Poster Number	Day	Date	Session Title
Michelle	Prats	Florida International Univeristy	FL	United States	Establishment of Long Term Soil Surface Elevation Monitoring Sites in Biscayne National Park	210	Wednesday-Friday	6/6/12-6/8/12	Session Two
Rene	Price	Florida International University	FL	United States	The Role of Groundwater Flow in Everglades Landscape Restoration	95	Monday-Wednesday	6/4/12-6/6/12	Session One
Renee	Price	University of South Florida	FL	United States	Historical Deposition of PAH, Pesticide, and Metal Contaminants in Clam Bayou, St. Petersburg, Florida	96	Monday-Wednesday	6/4/12-6/6/12	Session One
Samantha	Primer	Louisiana Universities Marine Consortium	KY	United States	Seasonal patterns in greenhouse gas emissions from US Gulf Coast baldcypress swamps	57	Monday-Wednesday	6/4/12-6/6/12	Session One
Edward	Proffitt	Florida Atlantic University	FL	United States	Oyster Population and Reef Community Restoration in the St. Lucie River Estuary	11	Monday-Wednesday	6/4/12-6/6/12	Session One
Tracy	Quirk	Academy of Natural Sciences of Drexel University	PA	United States	Effects of Interior Pond Creation on Sedimentation, Hydrology, and Elevation Changes of Salt Marshes	211	Wednesday-Friday	6/6/12-6/8/12	Session Two
Patricia	Rafferty	National Park Service	NY	United States	Vegetation Response in a Restored Marsh, Jamaica Bay, New York, USA.	177	Monday-Wednesday	6/4/12-6/6/12	Session One
Lisa-Maria	Rebelo	International Water Management Institute		Ethiopia	Wetlands and the Kyoto and Carbon Initiative	264	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jennifer	Rehage	Florida International University	FL	United States	Quantifying Habitat Use by Centrarchids in Response to Seasonal Hydrological Variation in the Everglades	265	Wednesday-Friday	6/6/12-6/8/12	Session Two
Aliana	Reichert-Eberhardt	The Pennsylvania State University	PA	United States	Spatial Variability of Dissolved Organic Carbon and Sulfate in Groundwater in Central Pennsylvania Headwater Wetlands	58	Monday-Wednesday	6/4/12-6/6/12	Session One
Felicia Orah	Rein	Watershed Solutions, Inc.	FL	United States	Vegetation Buffers, Water Quality and Ecosystem Resotoration	78	Monday-Wednesday	6/4/12-6/6/12	Session One
Kelly Chinnners	Reiss	University of Florida	FL	United States	Community Ecology of Urban Pondcypress Domes and Reference Equivalents	382	Wednesday-Friday	6/6/12-6/8/12	Session Two
Kelly Chinnners	Reiss	University of Florida	FL	United States	Initial Regulatory Applications of the Florida Wetland Condition Index for Vegetation (FWCI-V)	383	Wednesday-Friday	6/6/12-6/8/12	Session Two

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First Name	Last Name	Organization	ST	Country	Abstract Title	Poster Number	Day	Date	Session Title
Gregg	Reynolds	Everglades National Park	FL	United States	Ecological Benefits Quantification Method and Results from PIR-1 of the CERP WCA-3 Decompartmentalization and Sheetflow Enhancement (DECOMP) Project	139	Monday-Wednesday	6/4/12-6/6/12	Session One
Matthew	Richardson	Old Dominion University	VA	United States	Hydrogeologic variations across a barrier island that influence inter-dune wetlands, SE Virginia, USA	229	Wednesday-Friday	6/6/12-6/8/12	Session Two
Axel Eduardo	Rico-Sanchez	ENCB-IPN		Mexico	Diversity and abundance of benthic macroinvertebrates in Tecocomulco lake, a wetland in Hidalgo, Mexico	28	Monday-Wednesday	6/4/12-6/6/12	Session One
Stephanie	Romanach	US Geological Survey	FL	United States	Modeling Amphibian Occurrence and Richness as Ecosystem Indicators in the Greater Everglades	185	Monday-Wednesday	6/4/12-6/6/12	Session One
Stephanie	Romanach	US Geological Survey	FL	United States	Apple Snail Population Model for Use in Greater Everglades Restoration Project Assessment	186	Monday-Wednesday	6/4/12-6/6/12	Session One
Stephanie	Romanach	US Geological Survey	FL	United States	Joint Ecosystem Modeling (JEM): Models and Data Tools for Greater Everglades Restoration	187	Monday-Wednesday	6/4/12-6/6/12	Session One
Ellen	Russell	University of Massachusetts	MA	United States	Pre- and Post-Dredging Monitoring of Spartina alterniflora Productivity in a Threatened Salt Marsh	178	Monday-Wednesday	6/4/12-6/6/12	Session One
Nancy	Rybicki	US Geological Survey	VA	United States	Reducing the risk of misidentification of Hydrilla, Egeria, and Elodea with DNA fingerprinting	48	Monday-Wednesday	6/4/12-6/6/12	Session One
Jennifer	Sagan	Water & Air Research, Inc.	FL	United States	Life Cycle of a Tape Grass (Vallisneria americana) Bed	230	Wednesday-Friday	6/6/12-6/8/12	Session Two
AMARTYA	SAHA	Florida International University	FL	United States	Estimating Evapotranspiration in a Large Subtropical Wetland Ecosystem at Multiple Spatial Scales	250	Wednesday-Friday	6/6/12-6/8/12	Session Two
Christopher	Sanchez	University of Miami	FL	United States	The Contribution of Evapotranspiration to the Water Budget of an Aridland Urban Treatment Wetland	372	Wednesday-Friday	6/6/12-6/8/12	Session Two
Estefania	Sandoval	Florida International University	FL	United States	Water Residence Time and Water Quality in Taylor Slough – Everglades National Park, FL, USA	103	Monday-Wednesday	6/4/12-6/6/12	Session One

First Name	Last Name	Organization	ST	Country	Abstract Title	Poster Number	Day	Date	Session Title
Lyndsay	Saunders	University of Memphis	TN	United States	Effects of Root-Zone Glyphosate Exposure in Two Ditch Species	79	Monday-Wednesday	6/4/12-6/6/12	Session One
Jochen	Schöngart	Max Planck Institute for Chemistry		Brazil	Management criteria estimated by tree-ring analysis for <i>Tabebuia</i> spp. in the Brazilian Pantanal	343	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jochen	Schöngart	Max Planck Institute for Chemistry		Brazil	Dendroecology of <i>Calophyllum brasiliense</i> in Brazilian wetlands	344	Wednesday-Friday	6/6/12-6/8/12	Session Two
Robert	Schroeder	Florida International University	FL	United States	Estimating Annual Soil Carbon Release from Everglades Tree Islands	341	Wednesday-Friday	6/6/12-6/8/12	Session Two
Terri	Seron	Flagler College	FL	United States	Undergraduates Perform Protein Expression Profiling to Understand Environmental Influences on Estuarine Organisms	107	Monday-Wednesday	6/4/12-6/6/12	Session One
Jaishri	Shankar	University of Maryland	MD	United States	Effect of Plant Combinations on Nitrate Removal in Chesapeake Watershed Wetlands	305	Wednesday-Friday	6/6/12-6/8/12	Session Two
Amirreza	Sharifi	Auburn University	AL	United States	Modeling Dissolved Organic Carbon (DOC) Dynamics in Flooded Wetlands	84	Monday-Wednesday	6/4/12-6/6/12	Session One
Donasiani	Shayo	Ministry of Natural Resources and Tourism. Tanzania		Tanzania, United Republic of	THE ROLE OF POLITICS IN WETLANDS MANAGEMENT, CASE OF THE KILOMBERO VALLEY FLOOD PLAIN RAMSAR SITE in Morogoro Tanzania	128	Monday-Wednesday	6/4/12-6/6/12	Session One
John	Shelman	U.S. Army Corps of Engineers	NE	United States	An Experimental Approach to Creating Wet Meadows in the Lower Platte River Corridor	377	Wednesday-Friday	6/6/12-6/8/12	Session Two
Chajeong	Shin	seoul national university		Korea-Republic of (KOR)	Environmental Characteristics of <i>Cicuta virosa</i> Habitats	12	Monday-Wednesday	6/4/12-6/6/12	Session One
Anastasia	Shippey	California State University Long Beach	CA	United States	Effect of Climate Change on Function and Structure of a Restored Salt Marsh	179	Monday-Wednesday	6/4/12-6/6/12	Session One
Debjani	Sihi	University of Florida	FL	United States	Greenhouse Gas emission from Agricultural Wetland (Rice Field): Organic vs. Conventional farming	306	Wednesday-Friday	6/6/12-6/8/12	Session Two
Thiago Sanna Freire	Silva	National Institute for Space Research		Brazil	Susceptibility of macrophyte productivity to variations in flood intensity in the Amazon floodplain.	270	Wednesday-Friday	6/6/12-6/8/12	Session Two

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First Name	Last Name	Organization	ST	Country	Abstract Title	Poster Number	Day	Date	Session Title
Thiago Sanna Freire	Silva	National Institute for Space Research		Brazil	Remote sensing approach for monitoring the flood extent in the Amazon River floodplain	271	Wednesday-Friday	6/6/12-6/8/12	Session Two
Carly	Silver	TERA Environmental Consultants	AB	Canada	Macroinvertebrate and Waterfowl Communities of Rotationally Grazed Prairie Pothole Wetlands	307	Wednesday-Friday	6/6/12-6/8/12	Session Two
Geoffrey	Sinclair	U.S. Geological Survey	VA	United States	Assessing the Role of Mobile Organic Sediment in a Free-Flowing Everglades	242	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jai	Singh	U.S. Geological Survey	VA	United States	Using a Hydrologic Monitoring Network to Evaluate the Role of Enhanced Flow in Everglades Restoration	243	Wednesday-Friday	6/6/12-6/8/12	Session Two
Roy	Sonenshein	National Park Service	FL	United States	Evaluation of Potential Impacts to Near Shore Salinity in Western Biscayne Bay from Offshore Groundwater Withdrawals	180	Monday-Wednesday	6/4/12-6/6/12	Session One
Pedro	Souza-Filho	Universidade Federal do Para		Brazil	Mapping mangroves at genus level from object-based classification of IKONOS image	266	Wednesday-Friday	6/6/12-6/8/12	Session Two
Bethany	Stackhouse	USGS	VA	United States	A Closer Look at the Ecosystem History of South Florida's Estuaries Database	181	Monday-Wednesday	6/4/12-6/6/12	Session One
Matthew	Stahman	SWCA Environmental Consultants	TX	United States	Comparison of Wetland Functional Assessments in Texas and Louisiana	395	Wednesday-Friday	6/6/12-6/8/12	Session Two
Alex	Stalboerger	North Dakota State University	ND	United States	Treatment wetlands for removal of sulfate from tile drain water	308	Wednesday-Friday	6/6/12-6/8/12	Session Two
Matthew	Stasica	North Dakota State University	ND	United States	Examination of Statewide Wetland Assessment Methods for North Dakota	396	Wednesday-Friday	6/6/12-6/8/12	Session Two
Susan-Marie	Stedman	NOAA	MD	United States	Tools and Strategies to Address Coastal Wetland Loss	120	Monday-Wednesday	6/4/12-6/6/12	Session One
Katherine	Stewart	Northeastern State Univ.	OK	USA	Effects of Increased Temperature on a Trichoptera: Hydropsychidae Species Found in Costa Rica	369	Wednesday-Friday	6/6/12-6/8/12	Session Two
Rachel	Strecker	Louisiana State University	LA	United States	Teaching Undergraduates How to Conduct Research: From Concepts to Publication	106	Monday-Wednesday	6/4/12-6/6/12	Session One
O. Stribling	Stuber	Joseph W. Jones Ecological Research Center	GA	United States	Plant Communities of Isolated Wetlands and Their Relationship to Surrounding Land Use	309	Wednesday-Friday	6/6/12-6/8/12	Session Two

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Lori	Sutter	Virginia Institute of Marine Science	VA	United States	Vegetation Diversity and Nutrient Allocation along a Salinity Gradient	325	Wednesday-Friday	6/6/12-6/8/12	Session Two
Cheryl	Talde	University of the Philippines Mindanao		Philippines	Color Characterization of Goby Species (Perciformes: Gobiidae) in Lake Mainit, Philippines	29	Monday-Wednesday	6/4/12-6/6/12	Session One
Sierra	Taliaferro	Bethune-Cookman	WI	USA	Recolonization of Blue Spring Run by Rare Snail Species after Tropical Storm Fay	370	Wednesday-Friday	6/6/12-6/8/12	Session Two
Pamela	Telis	US Geological Survey	FL	United States	Use of Everglades Depth Estimation Network (EDEN) to Evaluate the Water Conservation Area 3A Snail Kite Transition Strategy	238	Wednesday-Friday	6/6/12-6/8/12	Session Two
Pamela	Telis	US Geological Survey	FL	United States	Confidence Index Computation for the Everglades Depth Estimation Network (EDEN) Water-Level Surfaces	239	Wednesday-Friday	6/6/12-6/8/12	Session Two
Siegmar	Thomas	Dresden University of Technology		Germany	Wetland belts and wet to dry grassland areas on dunes at lake shores	267	Wednesday-Friday	6/6/12-6/8/12	Session Two
James	Thomas	USACE	WA	United States	Urban Watershed Based Restoration: Habitat Conversion in the Green-Duwamish Ecosystem	317	Wednesday-Friday	6/6/12-6/8/12	Session Two
Mike	Thompson	Forrest Keeling Nursery	MO	United States	The Walk-A-Way System: A multi-benefit planting regime for reintroducing hard mast into wetland restoration.	284	Wednesday-Friday	6/6/12-6/8/12	Session Two
Ginger	Tiling-Range	USGS/Jacobs Technology	FL	United States	Habitat assessment for Smalltooth Sawfish, <i>Pristis pectinata</i> , along the southwestern coast of Florida.	5	Monday-Wednesday	6/4/12-6/6/12	Session One
Brandon	Tolle	Navigation Electronics	LA	United States	Rugged Mobile Wetland Data Collection Solutions for Assessment and Monitoring	397	Wednesday-Friday	6/6/12-6/8/12	Session Two
Chunfu	Tong	East China Normal University		China	Sediment-slurry Addition in Salt Marsh Restoration: A Viewpoint from the Benthic Macroinvertebrate	140	Monday-Wednesday	6/4/12-6/6/12	Session One
James	Totton	North Carolina A&T	NC	USA	East Winston North Carolina Master Plan: Open Space Network	371	Wednesday-Friday	6/6/12-6/8/12	Session Two

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Robert	Truesdale	RTI International	NC	United States	Application of GIS and Statistical Tools for the Identification and Assessment of Isolated Wetlands on the Southeast Coastal Plain	398	Wednesday-Friday	6/6/12-6/8/12	Session Two
Vanessa	Trujillo	Florida International University	FL	United States	Physiological Stress Effects induced by the Non-Native African Jewelfish on Native Dollar Sunfish	49	Monday-Wednesday	6/4/12-6/6/12	Session One
Daniel	Tufford	University of South Carolina	SC	United States	Isolated Wetlands – The Groundwater Connection -1. Water Table Monitoring	245	Wednesday-Friday	6/6/12-6/8/12	Session Two
Abbey	Tyrna	Penn State University	PA	United States	Linking Wetland Hydrology to Ecosystem Services using a Graph Theoretical Approach	268	Wednesday-Friday	6/6/12-6/8/12	Session Two
Juan de Dios	Valdez Leal	DACBIOL-UJAT		Mexico	Birds From the Wetland Coastal Plains of Tabasco, Mexico.	30	Monday-Wednesday	6/4/12-6/6/12	Session One
José	Van Diggelen	B-Ware Research Center		Netherlands	Choosing between Evils: Management Dilemmas in Sulfur-Rich Subsiding Peat Meadows	231	Wednesday-Friday	6/6/12-6/8/12	Session Two
Ross	Vander Vorste	NCDENR	NC	United States	The Biocriteria of Isolated Wetlands in the North and South Carolina Coastal Plain	232	Wednesday-Friday	6/6/12-6/8/12	Session Two
Pieter	Vandermeeren	Katholieke Universiteit Leuven		Belgium	Microbial Degradation of Pesticides in Wetlands: Influence of Photosynthesizing Algae	67	Monday-Wednesday	6/4/12-6/6/12	Session One
Christine	VanZomerén	University of Florida	FL	United States	Denitrification Rates in Coastal Louisiana Bayou Sediment and Marsh Soil: Role of Macrophytes and Consequences for Diversion Management	212	Wednesday-Friday	6/6/12-6/8/12	Session Two
Christine	VanZomerén	University of Florida	FL	United States	Influence of Extracellular Enzyme Activities on Macroelemental Cycling in Subtropical Treatment Wetlands	59	Monday-Wednesday	6/4/12-6/6/12	Session One
Rafael	Vazquez-Burney	CH2M HILL	FL	United States	Analysis of Land Use, Hydrology, and Water Quality of Beneficial Reuse for Natural Systems Restoration	149	Monday-Wednesday	6/4/12-6/6/12	Session One
Luisa	Vega	University of Konstanz		Germany	Biogenic carbon storage in shallow lakes from Brazilian Pantanal and Colombian Llano	335	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jos	Verhoeven	Utrecht University		Netherlands	A global model of human impact on the biodiversity of wetlands and aquatic ecosystems	362	Wednesday-Friday	6/6/12-6/8/12	Session Two
Susan	Vincent	The Young Women's Leadership School of East Harlem	NY	United States	Carbon Storage in Piermont Marsh, Hudson River Estuary	183	Monday-Wednesday	6/4/12-6/6/12	Session One

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Joy	Vinci	University of Florida	FL	United States	An Assessment of a Reproducing Population of the Oustalet's Chameleon (<i>Furcifer oustaleti</i>) in South Florida	47	Monday-Wednesday	6/4/12-6/6/12	Session One
Julie	Vogel	St. Petersburg College	FL	United States	The Effects of Artificial Floating Wetland Island (FWI) Type on Plant Biomass and Growth Dynamics	318	Wednesday-Friday	6/6/12-6/8/12	Session Two
Mike	Waldon	USFWS	KY	United States	Zero order sulfate disappearance rate in an Everglades wetland estimated using model calibration	73	Monday-Wednesday	6/4/12-6/6/12	Session One
Suzan	Waleska Pequeno Rodrigues	UFPA		Brazil	Mangrove conversion and aquaculture development in wave-dominated estuary in Northeastern Brazil from Landsat images	213	Wednesday-Friday	6/6/12-6/8/12	Session Two
Junjing	Wang	Beijing Normal University		China	Heavy metals in <i>Phragmites australis</i> and soil in tidal wetland of the Yellow River Delta	214	Wednesday-Friday	6/6/12-6/8/12	Session Two
Ying	Wang	City University of Hong Kong		China	Effects of PBDEs on Enzymatic and Non-enzymatic Antioxidants in Seedlings of <i>Kandelia obovata</i>	215	Wednesday-Friday	6/6/12-6/8/12	Session Two
Meng	Wang	McGill Univeristy	QC	Canada	The Carbon (C) : Nitrogen (N) : Phosphorus (P) : Potassium (K) Stoichiometry of Boreal Peatland Ecosystems	233	Wednesday-Friday	6/6/12-6/8/12	Session Two
Hongqing	Wang	USGS	LA	United States	Horizontal and Vertical Variability in Soil Bulk Density and Organic Matter Across Coastal Louisiana Wetlands Detected by the Coast-wide Reference Monitoring System (CRMS)-Wetlands	60	Monday-Wednesday	6/4/12-6/6/12	Session One
Yu	Wang	University of Florida	FL	United States	Long-term Macronutrient Accumulation in Isolated Subtropical Wetlands	85	Monday-Wednesday	6/4/12-6/6/12	Session One
Hongjun	Wang	Duke University	NC	United States	Polyphenol Inhibits CO ₂ Emissions under Prolonged Drought in an Unsaturated Pocosin Shrub Peatland	336	Wednesday-Friday	6/6/12-6/8/12	Session Two
Wen-Cheng	Wang	Ningbo Drinking Water Source Group Ltd.		China	Nutrient removal efficiency and biomass production of different bioenergy plants in hypereutrophic water	342	Wednesday-Friday	6/6/12-6/8/12	Session Two
Naiming	Wang	South Florida Water Management District	FL	United States	Modeling Reservoirs to Enhance the Phosphorus Removal Performance of Everglades Stormwater Treatment Areas	350	Wednesday-Friday	6/6/12-6/8/12	Session Two

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Rebecca	Ward	Florida International University	FL	United States	Tracking predator movement along an estuarine gradient: effects of temperature and salinity	216	Wednesday-Friday	6/6/12-6/8/12	Session Two
Danielle	Watts	University of Florida	FL	United States	Chaotic, Non-linear Dynamics of Water Chemistry in a Florida Freshwater Spring	86	Monday-Wednesday	6/4/12-6/6/12	Session One
Madeline	Wedge	Auburn University	AL	United States	Urban Land-Use Effects on Salt Marsh Resident Cyprinodontiformes in the Gulf of Mexico	319	Wednesday-Friday	6/6/12-6/8/12	Session Two
Tara	Wertz	US Fish and Wildlife Service	FL	United States	Is a partnership enough? A look back and look ahead for a SW Florida barrier island	150	Monday-Wednesday	6/4/12-6/6/12	Session One
Kevin R. T.	Whelan	National Park Service	FL	United States	Monitoring Mangrove Ecotonal Movement into Everglades Marshes	328	Wednesday-Friday	6/6/12-6/8/12	Session Two
Christine	Whitcraft	CSU Long Beach	CA	United States	If you restore it, will they come? Functional restoration trajectories in a Southern California Wetland	151	Monday-Wednesday	6/4/12-6/6/12	Session One
John	White	Louisiana State University	LA	United States	Carbon Accumulation in Coastal Louisiana Wetlands: What is the Carbon Credit Value of Restoration?	122	Monday-Wednesday	6/4/12-6/6/12	Session One
Sally	Wilson	kenyon College	OH	United States	How does the provision of ecosystem services change along a gradient of ecological condition: a case study of carbon sequestration.	125	Monday-Wednesday	6/4/12-6/6/12	Session One
Matthew	Wilson	University of Alberta		Canada	Reproducibility of a Plant-based Index of Biological Integrity in Wet and Dry Conditions	378	Wednesday-Friday	6/6/12-6/8/12	Session Two
Mark	Wiltermuth	North Dakota State University	ND	United States	Uncoupling Effects of Climate Cycles and Land Use upon Water-Level Dynamics and Amphipod Densities in Wetlands of the Prairie Pothole Region	255	Wednesday-Friday	6/6/12-6/8/12	Session Two
Florian	Wittmann	Max Planck Institute for Chemistry		Germany	Land-use history and flood regime as drivers for woody species diversity and biomass accumulation in Amazonian floodplain forests	293	Wednesday-Friday	6/6/12-6/8/12	Session Two
Kathy	Worley	Conservancy of Southwest Florida	FL	United States	Clam Bay Natural Resource Protection Area (NRPA) Benthic Habitat Assessment	13	Monday-Wednesday	6/4/12-6/6/12	Session One
Ming-Chee	Wu	Department of Earth Sciences		Taiwan	Monitoring the Coastal Wetland Geomorphologic Evolution by Series of Historical Maps	217	Wednesday-Friday	6/6/12-6/8/12	Session Two

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Lu	Xia	Nanjing University		China	Genetic diversity, ecotype hybrid and mixture of invasive <i>Spartina alterniflora</i> Loisel in coastal China	363	Wednesday-Friday	6/6/12-6/8/12	Session Two
Dong	Xie	Nanjing University		China	Turion Production and Nutrient Reserves in <i>Potamogeton crispus</i> L. Are Influenced by Sediment Nutrient Level	234	Wednesday-Friday	6/6/12-6/8/12	Session Two
Zhixiao	Xie	Florida Atlantic Univ	FL	United States	Develop a Finer Resolution DEM to Support Hydrological Modeling and Ecological Study in the Northern Everglades Freshwater Wetland	104	Monday-Wednesday	6/4/12-6/6/12	Session One
Zhixiao	Xie	Florida Atlantic Univ	FL	United States	Geographically Weighted Modeling of Surface Salinity in the Florida Bay Using Landsat TM Data	326	Wednesday-Friday	6/6/12-6/8/12	Session Two
Kazuo	Yabe	Sapporo City University		Japan	Effects of Snow Load and Plant Shade on the Growth of <i>Sphagnum papillosum</i>	235	Wednesday-Friday	6/6/12-6/8/12	Session Two
Hiroyuki	Yamada	Hokkaido University		Japan	Groundwater Flow Reversal at a Raised Bog in Sarobetsu Mire, Mid Latitude Peatland	256	Wednesday-Friday	6/6/12-6/8/12	Session Two
Jing-Yea	Yang	Environmental Consulting & Technology, Inc. (ECT)	FL	United States	Hydrologic Modeling for Rolling Meadows Wetland Restoration in Polk County, Florida	105	Monday-Wednesday	6/4/12-6/6/12	Session One
Alex	Yellick	North Dakota State University	ND	United States	Multi-Element Fingerprinting of Wetland Soils Yields Insight into Wetland Quality and Functioning	399	Wednesday-Friday	6/6/12-6/8/12	Session Two
Makoto	Yokoyama	Hokkaido University		Japan	Effects of Agricultural Activity on Temporospatial Variation of Water Quality in a Bog Pool, Lake Miyajima-numa, Northern Japan	87	Monday-Wednesday	6/4/12-6/6/12	Session One
Ning	Yu	Ningbo Drinking Water Source Group Ltd		China	Enhancement of purification for eutrophic water by DPAOs inoculated stereo floating bed	88	Monday-Wednesday	6/4/12-6/6/12	Session One
Jing	Yuan	University of Florida	FL	United States	Analysis of Patch Geometry Characteristics in the Ridge-Slough Patterned Landscape in the Everglades	269	Wednesday-Friday	6/6/12-6/8/12	Session Two
Manuel	Zamorano	South FL Water Management District	FL	United States	Spatial Soil Characteristics and Phosphorus Stability in Emergent and Submerged Aquatic Vegetation Cells of Stormwater Treatment Areas	354	Wednesday-Friday	6/6/12-6/8/12	Session Two

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First Name	Last Name	Organization	ST	Country	Abstract Title	Poster Number	Day	Date	Session Title
Xu	Zhai	Aarhus University		Denmark	Root Release of Organic Carbon and Nutrient Uptake by Three Emergent Wetland Plants	20	Monday-Wednesday	6/4/12-6/6/12	Session One
Yu	Zhang	Beijing Normal University		China	Enzyme Activity in Lake Sediments and Its Relation with Eutrophication from East Plain Region	62	Monday-Wednesday	6/4/12-6/6/12	Session One
Honggang	Zhang	Beijing Normal University		China	Development of optimization method of wetland networks to reduce the enrichment of pollutants in food webs in an estuary	69	Monday-Wednesday	6/4/12-6/6/12	Session One
Zhiming	Zhang	Beijing Normal University		China	The influence of the connection mechanism for wetland network to the saltwater intrusion in the Pearl River Delta	70	Monday-Wednesday	6/4/12-6/6/12	Session One
Guoping	Zhang	Louisiana State University	LA	United States	The Biomechanical Properties of Salt Marsh Vegetation Related to Wave and Storm Surge Attenuation	301	Wednesday-Friday	6/6/12-6/8/12	Session Two
Mark	Zucker	U.S. Geological Survey	FL	United States	Quantity, Quality, Timing, and Distribution of Flow along the Transition Zone of Shark River Slough, Everglades National Park, Florida	188	Monday-Wednesday	6/4/12-6/6/12	Session One

Author Recognition – Oral Presentations

Listed by Session
Presenting authors are in **bold**.

Monday, June 4, 2012 10:30am – 12:00pm			
1	2	3	4
<p>Session #1: 2011 National Wetland Condition Assessment (Part 1 of 3) [Grand Sierra Ballroom B]</p> <p>Moderator: Kelly Chinnners Reiss, University of Florida, Gainesville, FL USA</p> <p>10:30 Session Overview</p> <p>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</p> <p>11:00 Natural Resources Conservation Service's Role in the National Wetland Condition Assessment -- L.M. Vasilas¹ and P.S. King²; ¹USDA Natural Resources Conservation Service, Beltsville, MD, USA, ²USDA Natural Resources Conservation Service, Georgetown, DE, USA</p> <p>11:20 Level 1 Landscape Scale Analysis of Florida Wetland Condition -- Jenet Dooley, Kelly Chinnners Reiss and Mark T. Brown; HT Odum Center for Wetlands, University of Florida, Gainesville, FL, USA</p> <p>11:40 Reference Site Selection for the National Wetland Condition Assessment: Integrating Best Professional Judgment and Objective Selection Criteria -- Janet A Nestlerode¹, Gregg Serenbetz², Michael E. Scozzafava² 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</p>	<p>Session #2: Wetlands Science and Oil Spills - Ecological Effects (Part 1 of 2) [Grand Sierra Ballroom C]</p> <p>Moderator: Scott Zengel, Atkins North America, Tallahassee, FL, USA</p> <p>10:30 Session Overview</p> <p>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</p> <p>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</p> <p>11:20 Effects of Oil on The Rate and Trajectory of Louisiana Marsh Shoreline Erosion -- Giovanna McClenachan and R. Eugene Turner; Department of Oceanography and Coastal Sciences, Louisiana State University, Baton Rouge, LA, USA</p> <p>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</p>	<p>Session #3: Novel Ecosystems: Invasive Species (Part 1 of 3) [Antigua 1 & 2]</p> <p>Moderator: Joy Marburger, Chesterton, IN, USA</p> <p>10:30 Session Overview</p> <p>10:40 Novel Ecosystems Persist Following Control of the Invasive Grass <i>Phalaris arundinacea</i> (Reed Canary Grass) -- Carrie Reinhardt Adams and Philip Kauth; Environmental Horticulture Department, University of Florida, Gainesville, FL, USA</p> <p>11:00 Cryptic Cattail Invasions in North American Wetlands: Impacts to Biodiversity -- Steven E. Travis¹ and Joy E. Marburger²; ¹University of New England, Biddeford, ME, USA, ²National Park Service, Porter, IN, USA</p> <p>11:20 Common Reed (<i>Phragmites australis</i>) Stands in Freshwater Marshes: 'Biological Deserts' Revisited -- Claude Lavoie and the PHRAGMITES Research Group; Université Laval, Québec, QC, Canada</p> <p>11:40 Functional Basis for Geographical Variation in Growth Among Invasive Species: The Case of <i>Lygodium microphyllum</i> -- John C. Volin; University of Connecticut, Storrs, CT, USA</p>	<p>Session #4: Climate Change - Coastal Wetlands [Antigua 3 & 4]</p> <p>Moderator: Susan-Marie Stedman, NOAA, Silver Spring, MD, USA</p> <p>10:30 Session Overview</p> <p>10:40 Peatland Restoration in a Changing Climate: Risks and Chances of Salinization in Coastal Peatlands -- Gijs van Dijk¹, Alfons J.P. Smolders¹, Roos Loeb¹, Jan G.M. Roelofs² and Leon P.M. Lamers²; ¹B-Ware Research Center, Nijmegen, the Netherlands, ²Radboud University Nijmegen, the Netherlands</p> <p>11:00 The Effect of Saltwater Intrusion on Belowground Decomposition -- Camille L. Stagg¹, Nicole Cormier¹, Ken W. Krauss¹ and William H. Conner²; ¹U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA, ²Clemson University, Baruch Institute of Coastal Ecology and Forest Science, Georgetown, SC, USA</p> <p>11:20 Climate Change Impacts on the Wetlands of Tabasco, Mexico -- L. Gama¹, R. Collado-Torres¹, C. Pacheco-Figueroa¹, J. Valdez-Leal¹, H. Diaz-Lopez¹, C. Villanueva-Garcia¹ y M. Arturo Ortiz-Perez² and E. Moguel-Ordoñez¹; ¹Universidad Juarez Autonoma de Tabasco, Villahermosa, Tabasco, Mexico; ²Instituto de Geografia, UNAM, DF, Mexico</p> <p>11:40 Planning for Inland Migration of Coastal Wetlands Due to Sea Level Rise in Louisiana -- Heidi Beck¹, Alicia Bihler², Melissa Kemm¹, Sam Pardo² and Douglas Perron¹; ¹Duke University, Beaufort, NC, USA, ²Duke University, Durham, NC, USA</p>

Monday, June 4, 2012 | 10:30am – 12:00pm

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<p>Session #5: Plant Microbial Interaction and Microbial Diversity in Wetlands</p> <p>[Bonaire 1 & 2]</p> <p>Moderator: Pascal Boeckx, Ghent University, Gent, Belgium</p> <p>10:30 Session Overview</p> <p>10:40 Variation of Soil Microbial Community Structure and Activity along Ecohydrological Gradients -- Pascal Boeckx¹, B.L. Wajira K. Balasooriya¹, Dries Huygens^{1,2}, Niko Verhoest¹ and Karolien Deneef³; ¹Ghent University, Gent, Belgium, ²Universidad Austral de Chile, Valdivia, Chile, ³University of Colorado, Boulder, CO, USA</p> <p>11:00 Characterization of Microbial Carbon Cyclers Using Stable Isotope Approaches -- Lindsay Darjany, Christine Whitcraft and Jesse Dillon; California State University Long Beach, Long Beach, CA, USA</p> <p>11:20 Microbial Community Responses to Nutrient Enrichment in Wetland Soils -- Wyatt H. Hartman¹, Curtis J. Richardson¹, Scott C. Neubauer² and P.V. Sundareswar³; ¹Duke Wetland Center, Nicholas School of the Environment, Duke University, Durham NC, USA, ²Baruch Field Laboratory, University of South Carolina, Columbia SC, USA, ³South Dakota School of Mines and Technology, Rapid City SD, USA</p> <p>11:40 Microbial Structure and Function in Fens: Responses to Climate Change -- Lucia Sekulová^{1,2}, Luca Bragazza^{1,3,4} and Alexandre Buttler^{1,3,5}; ¹EPFL, Lausanne, Switzerland, ²Masaryk University, Brno, Czech Republic, ³WSL- Swiss Federal Institute for Forest, Snow and Landscape Research, Lausanne, Switzerland, ⁴University of Ferrara, Ferrara, Italy, ⁵University of Franche-Comté, Besançon, France</p>	<p>Session #6: Carbon Sequestration</p> <p>[Bonaire 3 & 4]</p> <p>Moderator: Kristin Byrd, U.S. Geological Survey, Menlo Park, CA, USA</p> <p>10:30 Session Overview</p> <p>10:40 Carbon Sequestration by a Temperate Sedge-Grass Marsh -- Hana Cizkova^{1,2}, Jiri Dusek¹ and Stanislav Stellner¹; ¹Czech Globe -- Global Change Research Centre, Ceske Budejovice, Czech Republic, ²Faculty of Agriculture, University of South Bohemia, Ceske Budejovice, Czech Republic</p> <p>11:00 Strengthening the Century-Scale Global Estimate of Mangrove Organic Carbon Burial Rates -- Joshua L. Breithaupt¹, Joseph M. Smoak¹, Thomas J. Smith III², Christian J. Sanders³ and Armando Hoare¹; ¹University of South Florida, Environmental Science, St. Petersburg, FL, USA, ²U.S. Geological Survey, Southeast Ecological Science Center, St. Petersburg, FL, USA, ³Universidade Federal de Fluminense (UFF), Departamento de Geoquímica, Niterói-RJ, Brazil</p> <p>11:20 Quantifying Wetland Carbon Sequestration Potential in the Great Plains for Three Greenhouse Gas Emission Scenarios -- Kristin Byrd¹, Jamie Ratliff¹, Omar Abdul-Aziz², Norman Bliss³, Anne Wein¹, Ben Sleeter¹ and Terry Sohl⁴; ¹Western Geographic Science Center, USGS, Menlo Park, CA, USA, ²Florida International University, Miami, FL, USA, ³ARTS, contractor to USGS EROS, Sioux Falls, SD, USA, ⁴EROS, USGS, Sioux Falls, SD, USA</p> <p>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</p>	<p>Session #7: Olentangy River Wetland Research Park: Investigating Wetland Ecosystem Services at Multiple Landscape Scales (Part 1 of 3)</p> <p>[Bonaire 5 & 6]</p> <p>Moderator: Li Zhang, The Ohio State University, Columbus, OH, USA</p> <p>10:30 Session Overview</p> <p>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</p> <p>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</p> <p>11:20 Carbon Sequestration in Coastal Freshwater Wetland Soils in Veracruz Mexico -- Maria E. Hernandez¹, Jose L. Marin-Muñoz² and Patricia Moreno-Casasola¹; ¹Institute of Ecology, Xalapa, Veracruz México, ²University of Veracruz, Xalapa, Veracruz, Mexico</p> <p>11:40 Discussion</p>	<p>Session #8: Interrelationships among Hydrological, Biodiversity and Land Use Features of the Pantanal (Brazil) and Everglades (Part 1 of 3)</p> <p>[Bonaire 7 & 8]</p> <p>Moderator: Rudolf Jaffe, Florida International University, Miami, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 The Role of Science in the Management of Pantanal and Everglades National Parks -- Jose Augusto Ferraz de Lima¹ and Robert Johnson²; ¹Pantanal Mattogrossense National Park, Brazil, ²Everglades National Park, USA</p> <p>11:00 Comparative Studies in Support of Sustainable Management of the Pantanal and the Everglades -- Vic Engel¹ and Paulo Teixeira de Sousa Jr²; ¹South Florida Natural Resources Center, Everglades National Park, Homestead, FL, USA, ²Centro de Pesquisas do Pantanal (Pantanal Research Centre), Federal University of Mato Grosso - Cuiabá-MT, Brazil</p> <p>11:20 Ecohydrological Background for the Conservation of Pantanal and Everglades National Parks -- Pierre Girard¹ and Vic Engel²; ¹University of Mato Grosso/Pantanal Research Center, Cuiabá-MT, Brazil, ²South Florida Natural Resources Center, Everglades National Park, Homestead, FL, USA</p> <p>11:40 Land-Use Change and Water Management Associated with Societal and Ecological Developments In the Pantanal and the Everglades -- Richard Weisskoff¹, Shimon Wdowinski¹ and Peter Zeilhofer²; ¹University of Miami, Miami, FL, USA, ²Universidade Federal de Mato Grosso, Cuiaba, Brazil</p>

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<p>Session #9: Adaptive Management Water, Wetlands, and Watersheds (AM:w3) the Florida Experience (Part 1 of 2)</p> <p>[Curacao 1 & 2]</p> <p>Moderator: Mark Brown, University of Florida, Gainesville, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Vegetation Response to Feral Hog (<i>Sus scrofa</i>) Disturbance in Seepage Slope Wetlands -- Megan Brown¹ and Debbie Miller²; ¹University of Florida, Gainesville, FL, USA, ²West Florida Research and Education Center-University of Florida, Milton, FL, USA</p> <p>11:00 Balancing Economic and Environmental Production: The Role of Wetlands in Sustainable Regions -- David A. Pfahler; University of Florida, Gainesville, FL, USA</p> <p>11:20 Effects of Flow and Nitrogen on Filamentous Algae in Florida Spring-fed Rivers -- Sean King, University of Florida, Gainesville, FL USA</p> <p>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</p>	<p>Session #10: The Ramsar Convention and SWS - Linking Science to International Policy (Part 1 of 2)</p> <p>[Curacao 3 & 4]</p> <p>Moderator: Robert McInnes, RM Wetlands & Environment, Faringdon, United Kingdom</p> <p>10:30 Session Overview</p> <p>10:40 The Ramsar Convention and SWS -- Linking Science to International Policy -- CM Finlayson; Institute for Land, Water and Society, Charles Sturt University, Albury, Australia</p> <p>11:00 Water Quality Issues in Ramsar Wetlands -- J. T. A. Verhoeven; Ecology and Biodiversity, Department of Biology, Utrecht University, The Netherlands</p> <p>11:20 Linking UN-HABITAT, The Ramsar Convention, Urban Wetlands and Ecosystem Services -- R. J. McInnes; RM Wetlands & Environment Ltd, Oxfordshire, UK</p> <p>11:40 Managing Environmental Flows to an Australian Ramsar Wetland, the Macquarie Marshes: Flooding Regimes for Wetland Vegetation -- Rachael F. Thomas^{1,2}, Yi Lu³, Steve Cox², Sharon Bowen², Shannon Simpson² and Shiquan Ren¹; 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</p>	<p>Session #11: Biogeochemistry [Curacao 5 & 6]</p> <p>Moderator: Marjorie Zeff, URS Corporation, Fort Washington, PA, USA</p> <p>10:30 Session Overview</p> <p>10:40 The Effect of Nutrient Supply on the Primary Production and the Participation of <i>Phalaris Arundinacea</i> in a Wet Grassland Plant Community -- Miroslava Káplová¹, Keith R. Edwards¹ and Jan Květ^{1,2}; ¹Department of Ecosystems Biology, Faculty of Science, University of South Bohemia, České Budějovice, Czech Republic, ²CzechGlobe, Center for Global Change Research, Czech Academy of Sciences, České Budějovice, Czech Republic</p> <p>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</p> <p>11:20 <i>Spartina alterniflora</i> Marsh Development on Nutrient-rich Dredged Materials in a Large-scale Restoration Project in Mid-Chesapeake Bay: A Case of Silicon Depletion? -- Lorie W. Staver¹, J. Court Stevenson¹, Jeffrey C. Cornwell¹, Michael Owens¹ and Philippe Hensel²; ¹University of Maryland Center for Environmental Science, Cambridge, MD, USA, ²NOAA, National Geodetic Survey, Silver Spring, MD, USA</p> <p>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</p>	<p>Session #12: Wetland Fauna [Curacao 7 & 8]</p> <p>Moderator: Dale Gawlik, Florida Atlantic University, Boca Raton, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Hydrologic Variability as a Global Driver of Colonial Waterbird Nesting -- Dale E. Gawlik^{1,2} and Richard T. Kingsford²; ¹Environmental Sciences Program, Florida Atlantic University, Boca Raton, FL, USA, ²Australian Wetlands and Rivers Centre, University of New South Wales, Sydney, NSW, Australia</p> <p>11:00 Dry Disturbance and Fish Reduction Produce Enhanced Crayfish Densities in a Freshwater Wetland -- Nathan J. Dorn¹ and Mark I. Cook²; ¹Department of Biological Sciences, Florida Atlantic University, Davie, FL, USA, ²South Florida Water Management District, West Palm Beach, FL, USA</p> <p>11:20 Activity Patterns of Nutria (<i>Myocastor coypus</i>) in an Urban Pond -- Jacoby Carter¹ and Sergio Merino²; ¹U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA, ²Fiver Rivers Services, LLC, US Geological Survey, National Wetlands Research Center, Lafayette, LA, USA</p> <p>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</p>

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<p>Session #13: 2011 National Wetland Condition Assessment (Part 2 of 3)</p> <p>[Grand Sierra Ballroom B]</p> <p>Moderator: Kelly Chinnners Reiss, University of Florida, Gainesville, FL USA</p> <p>1:30 Session Overview</p> <p>1:40 The North Dakota Intensification of the NWCA: An Endeavor in Collaboration -- Christina L.M. Hargiss¹, Edward S. DeKeyser¹, Jack E. Norland¹, Thomas DeSutter¹, Lindsey Meyers¹ and Michael J. Ell²; ¹North Dakota State University, Fargo, ND, USA, ²North Dakota Department of Health, Bismarck, ND, USA</p> <p>2:00 Florida Participation in the National Wetland Condition Assessment -- Mary Boyd, Erica Hernandez, Kelly Chinnners Reiss and Mark T. Brown; HT Odum Center for Wetlands, University of Florida, Gainesville, FL, USA</p> <p>2:20 North Carolina National Wetland Conditional Assessment Site Descriptions, Rapid Assessment Results, and Method Evaluation -- Virginia Baker¹, Rick Savage¹, Anthony Scarbraugh¹, James Graham¹, Tammy Hill¹ and Ashley Steele²; ¹NC Division of Water Quality, Raleigh, NC, USA, ²WK Dickson, Raleigh, NC, USA</p> <p>2:40 Florida's Use of Supplemental NWCA Funds to Inform Water Quality Standards Development -- Nia Wellendorf¹, Ken Weaver¹ and Kelly Reiss²; ¹Florida Department of Environmental Protection, Tallahassee, FL, USA, ²HT Odum Center for Wetlands, University of Florida, Gainesville, FL, USA</p>	<p>Session #14: Wetlands Science and Oil Spills - Remediation, Damage Assessment, Restoration (Part 2 of 2)</p> <p>[Grand Sierra Ballroom C]</p> <p>Moderator: Don Deis, Atkins, Jacksonville, FL, USA</p> <p>1:30 Session Overview</p> <p>1:40 Deepwater Horizon Oil Spill: Salt Marsh Treatment Testing and Monitoring, Northern Barataria Bay -- Scott Zengel^{1,2}, Jacqueline Michel^{1,3} and Eric Schneider^{1,2}; ¹NOAA Scientific Support Team, DWH SCAT Program, New Orleans, LA, USA, ²Atkins North America, Tallahassee, FL, USA, ³Research Planning, Inc., Columbia, SC, USA</p> <p>2:00 Coastal Wetland Natural Resource Damage Assessment Plan for the Deepwater Horizon Oil Spill -- Mark W. Hester¹, Jonathan M. Willis¹, and Marla Steinhoff²; ¹University of Louisiana, Lafayette, LA, USA, ²National Oceanic and Atmospheric Administration, Seattle, WA, USA</p> <p>2:20 Salt Marsh Restoration Following an Oil Spill: Ecosystem Consequences of Genetic Variation -- Brittany M. Bernik¹, Thomas Azwell², Allyse M. Ferrara³ and Michael J. Blum¹; ¹Tulane University, New Orleans, LA, USA, ²University of California, Berkeley, CA, USA, ³Nicholls State University, Thibodaux, LA, USA</p> <p>2:40 Early Results and Guidance from a Coastal Habitat Restoration Project Twenty Years after the 1991 Gulf War Oil Spill -- Christopher D. Cormack¹, Jason A. Hale¹, Owen Langman¹, Thomas G. Minter¹, Jeremy J. Gabriel¹, Michael J. Risk², Linos Cotsapas^{1,2} and Jacqueline Michel³; ¹Pandion Technology, Ltd., Limassol, Cyprus, ²Durham, Ontario, CA; ³Research Planning, Inc., Columbia, SC, USA</p>	<p>Session #15: Novel Ecosystems: Ecosystem Restoration and Management (Part 2 of 3)</p> <p>[Antigua 1 & 2]</p> <p>Moderator: Wiley Kitchens, U.S. Geological Survey, Gainesville, FL, USA</p> <p>1:30 Session Overview</p> <p>1:40 Does the Everglades Still Exist? -- Joel Trexler, and Evelyn Gaiser; Florida International University, Maimi, FL, USA</p> <p>2:00 Refugia in a Novel Ecosystem: Everglades Snail Kite in Florida -- Wiley M. Kitchens¹, Christopher Cattau² and Zach Welch³; ¹U.S. Geological Survey, Gainesville, FL, USA, ²University of Florida, Gainesville, FL, USA, ³Florida Fish and Wildlife Conservation Commission, Ocala, FL, USA</p> <p>2:20 Effects of Novel Water Regimes, Invasive Predators, and Contaminants on Population Dynamics of Wading Birds (Ciconiiformes) in the Everglades of Florida, USA -- Peter Frederick; University of Florida, Gainesville, FL, USA</p> <p>2:40 The Potential Effect of the Novel Ecosystem Concept on Wetland Restoration Planning and Evaluation -- Susan Galatowitsch; University of Minnesota, Saint Paul, MN, USA</p>	<p>Session #16: Organic Soils [Antigua 3 & 4]</p> <p>Moderator: Niko Rosskopf, Humboldt Universität zu Berlin, Berlin, Germany</p> <p>1:30 Session Overview</p> <p>1:40 Soil Physical Properties of Organic Soils in Germany and their Relevance for the Climate Reporting -- Niko Rosskopf, Holger Fell and Jutta Zeitz; Humboldt-Universität zu Berlin, Faculty of Agriculture and Horticulture, Division of Soil Science and Site Science, Berlin, Germany</p> <p>2:00 Methane Emission from Estuarine Wetlands and the Effect of Wetland Plant -- Dongqi Wang^{1,2}, Zhenlou Chen¹, John R. White² and Ronald D. Delaune²; ¹East China Normal University, Shanghai, China; ²Louisiana State University, LA, USA</p> <p>2:20 Mapping Organic Soils in Germany in the Frame of Climate Reporting -- Holger Fell¹, Niko Rosskopf and Jutta Zeitz; Humboldt-Universität zu Berlin, Faculty of Agriculture and Horticulture, Division of Soil Science and Site Science, Berlin, Germany</p> <p>2:40 Methane and Nitrous Oxide Emissions in Freshwater Swamps and Marshes in Southeastern México -- J.L. Marin-Muñiz¹, M.E. Hernández² and P. Moreno-Casasola²; ¹University of Veracruz, Xalapa, Veracruz, Mexico, ²Institute of Ecology, Xalapa, Veracruz México</p>

Monday, June 4, 2012 | 1:30pm – 3:00pm

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<p>Session #17: Trace Metals [Bonaire 1 & 2] Moderator: Rick Black, Environ, Salt Lake City, UT, USA</p> <p>1:30 Session Overview</p> <p>1:40 Methylmercury Production in Everglades National Park: Biogeochemical Drivers and Implications for Restoration -- David Krabbenhoft¹, John DeWild¹, Charlie Thompson¹, Jacob Ogorek¹, George Aiken², William Orem³, Jeffrey Kline⁴ and Joffre Castro⁴; ¹U. S. Geological Survey, Middleton, WI, USA, ²U.S. Geological Survey, Boulder, CO, USA, ³U. S. Geological Survey, Reston, VA, USA, ⁴National Park Service, Everglades National Park, Homestead, FL, USA</p> <p>2:00 Metal/Metalloid Accumulation/Remobilization During Aquatic Litter Decomposition in Freshwater -- Jörg Schaller; Institute of General Ecology and Environmental Protection, University of Technology Dresden, Tharandt, Germany</p> <p>2:20 Demonstration Project for Mercury Abatement and Habitat Enhancement in the Miccosukee Tribe of Indians of Florida -- Gintautas S. Zavadzkas and Rory M. Feeney; Miccosukee Fish and Wildlife Department, Miccosukee Tribe of Indians of Florida, Miami, FL, USA</p> <p>2:40 Tidal Flux of Dissolved Organic Carbon, Total Mercury, and Methylmercury from Shark River Estuary -- Brian A Bergamaschi¹, David P Krabbenhoft², George R Aiken³, Eduardo Patino⁴, Darren G. Rumbold⁵ and William H Oren⁶; ¹US Geological Survey California Water Science Center, Sacramento CA, USA, ²US Geological Survey Wisconsin Water Science Center, Madison WI, USA, ³US Geological Survey National Research Program, Boulder CO, USA, ⁴US Geological Survey Florida Water Science Center, St. Petersburg, FL, USA, ⁵Florida Gulf Coast University, Ft. Myers, FL, USA, ⁶US Geological Survey, Reston VA, USA</p>	<p>Session #18: Mississippi River Delta: Delta Deterioration and the Pathway Forward [Bonaire 3 & 4] Moderator: Alisha Renfro, National Wildlife Federation, New Orleans, LA, USA</p> <p>1:30 Session Overview</p> <p>1:40 Land Area Change in Coastal Louisiana from 1932 to 2010 -- Brady R. Couvillion¹, John A. Barras¹, Gregory D. Steyer¹, William Sleavin², Michelle R. Fischer¹ and Holly Beck³; ¹U.S. Geological Survey, Baton Rouge, LA, USA, ²Noble Supply and Logistics, Granby, CT, USA, ³Five Rivers Services, LLC, Baton Rouge, LA, USA</p> <p>2:00 A New Subsidence Curve for Mississippi River Delta Tide Gauges and its Implications for Coastal Restoration -- Alexander S. Kolker¹, Mead A. Allison² and Sultan Hameed³; ¹Louisiana Universities Marine Consortium, Chauvin, LA, USA, ²University of Texas at Austin, Austin, TX, USA, ³Stony Brook University, Stony Brook, NY, USA</p> <p>2:20 Meeting the Challenge of Barrier Island Restoration: An Overview of the LCA Terrebonne Basin Barrier Shoreline Restoration Planning Process -- A. Bass; CH2MHILL, Baton Rouge, LA, USA</p> <p>2:40 Integrating Science, Policy, and Stakeholder Outreach to Accelerate Restoration -- Angelina M. Freeman¹, G. Paul Kemp² and Alisha Renfro³; Environmental Defense Fund, Washington, DC, USA, ²National Audubon Society, Baton Rouge, LA, USA, ³National Wildlife Federation, New Orleans, LA, USA</p>	<p>Session #19: Olentangy River Wetland Research Park: Investigating Wetland Ecosystem Services at Multiple Landscape Scales (Part 2 of 3) [Bonaire 5 & 6] Moderator: Bill Mitsch, Ohio State University, Columbus, OH, USA</p> <p>1:30 Session Overview</p> <p>1:40 The Regulation of Greenhouse Gas Fluxes by Wetlands at Landscape Level -- Ülo Mander, Martin Maddison, Kaido Soosaar, Jüri-Ott Salm, Järvi Järveoja and Raili Hansen; Department of Geography, University of Tartu, Estonia</p> <p>2:00 Carbon Export and Budget of Created Wetlands: Importance of Hydrology -- Evan J. Waletzko and William J. Mitsch¹; ¹The Ohio State University, Columbus, OH, USA</p> <p>2:20 Carbon Sequestration in Tropical Wetlands of Costa Rica -- Blanca Bernal and William J. Mitsch, Wilma H. Schiermeier Olentangy River Wetland Research Park, The Ohio State University, Columbus, OH, USA</p> <p>2:40 Seedling Recruitment in Variable Hydrologic Regimes -- Douglas J. Spieles, Miranda Carter, Simonne Benoit, and Jackson Means; McPhail Center for Environmental Studies, Denison University, Granville, OH, USA</p>	<p>Session #20: Interrelationships among Hydrological, Biodiversity and Land Use Features of the Pantanal (Brazil) and Everglades (Part 2 of 3) [Bonaire 7 & 8] Moderator: Paulo Teixeira de Sousa, UFMT-INAU, Cuiabá, Brazil</p> <p>1:30 Session Overview</p> <p>1:40 Conceptual Model of Human and Natural Systems Interactions in the Agricultural and Ranching Areas in the Everglades and Pantanal -- Elise V. Pearlstine¹ Rena R. Borkhataria¹ and Scott Markwith²; ¹University of Florida, IFAS, Belle Glade, FL, USA, ²Florida Atlantic University, Boca Raton, FL, USA</p> <p>2:00 Habitat Use by Wildlife in Agricultural and Ranching Areas in the Pantanal and Everglades -- Julio Souza¹ and Elise Pearlstine²; ¹Universidade Federal de Mato Grosso do Sul, Aquidauana, Brazil, ²University of Florida, IFAS, Belle Glade, FL, USA</p> <p>2:20 Landscape Ecology Approaches for the Conservation of Pantanal and Everglades Vegetation -- C. Nunes da Cunha¹ and J.Richards²; ¹Universidade Federal de Mato Grosso, Cuiabá, MT, Brazil, ²Florida International University, Miami, FL, USA</p> <p>2:40 Effects of Seasonal Hydrology on Fish Dynamics in Subtropical Freshwater Wetlands: A Comparative Study between the Pantanal and the Everglades -- J.A. Ferraz¹ and J.S. Rehage²; ¹Pantanal National Park, Cuiaba, Brazil, ²Florida International University, Miami, FL, USA</p>

Monday, June 4, 2012 | 1:30pm – 3:00pm

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Session #21: Adaptive Management Water, Wetlands, and Watersheds (AM:w3) the Africa Experience (Part 2 of 2) [Curacao 1 & 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-Hudson¹ , Piotr Wolski ¹ , Mark T. Brown ² and Thomas Davidson ³ ; ¹ Okavango Research Institute, University of Botswana, Maun, Botswana, ² Howard T. Odum Center for Wetlands, University of Florida, Gainesville, FL, USA, ³ Dept 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. Thakadu¹ , Tracy Irani ² , and Ricky Telg ² ; 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^{1,2} and Martha C. Monroe ¹ ; ¹ University of Florida, Gainesville, FL, USA, ² Stanford University, Stanford, CA, USA	Session #22: The Ramsar Convention and SWS - Linking Science to International Policy (Part 2 of 2) [Curacao 3 & 4] 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. Lukacs¹ and N.C. Davidson ² ; ¹ James Cook University, Townsville, Queensland, Australia, ² Ramsar 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. Wickland¹ , Jonathan A. O'Donnell ¹ , Jennifer W. Harden ² , M. Torre Jorgenson ³ , Mikhail Z. Kanevskiy ⁴ , Stephanie A. Ewing ⁵ , Carmel Johnston ⁵ ; ¹ U.S. Geological Survey, Boulder, CO, USA, ² U.S. Geological Survey, Menlo Park, CA, USA, ³ Alaska Ecoscience, Fairbanks, AK, USA, ⁴ University of Alaska-Fairbanks, Fairbanks, AK, USA, ⁵ Montana State University, Bozeman, MT, USA 2:00 Effects of Peatland Drainage on Dissolved Organic Carbon Quality and Quantity -- Evan S. Kane¹ , John A. Hribljan ¹ , Merritt R. Turetsky ² , Rodney A. Chimner ¹ ; ¹ Michigan Tech. University, Houghton, MI, USA, ² University of Guelph, Guelph, Ontario, Canada 2:20 Hydrologic Modification and Peat Dynamics in the Everglades Ridge-Slough Mosaic -- Danielle L. Watts¹ , Matthew J. Cohen ¹ , James B. Heffernan ^{2,3} , Todd Z. Osborne ¹ , Michael John Carnavale ¹ ; ¹ University of Florida, Gainesville, FL, USA, ² Florida International University, Miami, FL, USA, ³ Duke University, Durham, NC, USA 2:40 Relating Self-regulation with Ecosystem Structure and Function in Northern Peatlands -- Avni Malhotra , Nigel Roulet, 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. Gibble¹ and Donatto D. Surratt ² ; ¹ A.R.M. Loxahatchee National Wildlife Refuge, U.S. Fish and Wildlife Service, Boynton Beach, FL, USA, ² Everglades 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. Surratt¹ , Rebekah E. Gibble ² ; ¹ Everglades National Park c/o A.R.M. Loxahatchee National Wildlife Refuge, Boynton Beach, FL, USA, ² A.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

Monday, June 4, 2012 | 3:30pm – 5:00pm

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<p>Session #25: 2011 National Wetland Condition Assessment (Part 3 of 3) [Grand Sierra Ballroom B]</p> <p>Moderator: Kelly Chinnners Reiss, University of Florida, Gainesville, FL USA</p> <p>3:30 Session Overview</p> <p>3:40 Crosswalk of the Florida Wetland Condition Index within the National Wetland Condition Assessment -- Erica Hernandez, Carrie Boyd, Kelly Chinnners Reiss, Mark T. Brown; HT Odum Center for Wetlands, University of Florida, Gainesville, FL, USA</p> <p>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</p> <p>4:20 Improving Success Rates for Compensatory Wetland Mitigation Using Quantifiable Ecological Performance Standards Developed from Level 3 National Wetland Condition Assessment Data -- Mick Micacchion; Midwest Biodiversity Institute, Columbus, OH, USA</p> <p>4:40 Lessons Learned from the 2011 National Wetland Condition Assessment -- Dennis McCauley¹, Jamie Saxton¹, Chris Turner¹ and Michael Scozzafava²; ¹Great Lakes Environmental Center, Inc., Traverse City, Michigan, USA, ²US EPA Office of Water, Washington, DC, USA</p>	<p>Session #26: Hindcasts and Futurecasts Link Hydrology and Ecology in the Coastal Everglades [Grand Sierra Ballroom C]</p> <p>Moderator: Catherine Langtimm, U. S. Geological Survey, Gainesville, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Predicting and Detecting Consequences of SLR and Storm Surges on Coastal Vegetation Regime Shifts -- Jiang Jiang¹, D. L. DeAngelis², T. J. Smith, III³, S.-Y. Teh⁴, H.-L. Koh⁴; ¹University of Miami, Coral Gables, FL, USA, ²U. S. Geological Survey, Coral Gables, FL, USA, ³U.S. Geological Survey, St. Petersburg, FL, USA, ⁴Universiti Sains Malaysia, Penang, Malaysia</p> <p>4:00 Using Modern Hurricane Wind Data to Supplement Hydrodynamic Hindcast and Futurecast Models -- M. Dennis Krohn¹, Eric D. Swain², Catherine A. Langtimm³, and Thomas J. Smith, III³; ¹U.S. Geological Survey, Coastal and Marine Science Center, St. Petersburg, FL, USA, ²U.S. Geological Survey, Florida Water Science Center, Ft. Lauderdale, FL USA, ³U.S. Geological Survey, Southeast Ecological Science Center, Gainesville, FL USA</p> <p>4:20 Investigating Hydrologic Scenarios with Climate Change and Ecosystem Process Feedback Using Hindcast and Futurecast Modeling - Eric Swain¹, Melinda Lohmann¹, Dennis Krohn², Thomas Smith², Catherine Langtimm³, Don DeAngelis¹, Brad Stith³, Jiang Jiang⁴, and Ann Foster³; ¹U.S. Geological Survey, Ft. Lauderdale, FL USA, ²U.S. Geological Survey, St. Petersburg, FL, USA, ³U.S. Geological Survey, Gainesville, FL, USA, ⁴University of Miami, Coral Gables, FL, USA</p> <p>4:40 Futurecasting Effects of Sea Level Rise, Climate Change, and Restoration on Individual Species -- Brad Stith¹, Zuzanna Zajac², Catherine A. Langtimm³, Eric D. Swain⁴, Don DeAngelis⁵, and Melinda Lohmann⁴; ¹Jacobs Technology, U.S. Geological Survey, Southeast Ecological Science Center, Gainesville, FL USA, ²Department of Agricultural and Biological Engineering, University of Florida, Gainesville, FL, USA, ³U.S. Geological Survey, Southeast Ecological Science Center, Gainesville, FL USA, ⁴U.S. Geological Survey, Florida Water Science Center, Ft. Lauderdale, FL USA, ⁵U.S. Geological Survey, Southeast Ecological Science Center, Coral Gables, FL, USA</p>	<p>Session #27: Novel Ecosystems: Climate Change and Summary (Part 3 of 3) [Antigua 1 & 2]</p> <p>Moderator: Beth Middleton, U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA</p> <p>3:30 Session Overview</p> <p>3:40 Wetland Function and Composition in Novel Swamp Environments -- Beth A. Middleton; U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA</p> <p>4:00 Projecting Wetland Plant Species Distribution in a Changing Climate -- Sylvie de Blois; McGill University, Montreal, QC, Canada</p> <p>4:20 Novel Ecosystems: A European Perspective -- Martin J. Wassen; Environmental Sciences, Copernicus Institute of Sustainable Development, Utrecht University, Heidelberglaan Utrecht</p> <p>4:40 History and Implications of the Novel Ecosystem Concept -- Arnold G. van der Valk; Iowa State University, Ames, IA, USA</p>	<p>Session #28: Tropical Floodplain Eco-systems: Comparative Analyses across Scales and Biomes [Antigua 3 & 4]</p> <p>Moderator: Len Berry, Florida Center for Environmental Studies, Jupiter, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Tropical Floodplain Ecology: Australia Compared to South America -- Stephen K. Hamilton; Kellogg Biological Station, Michigan State University, Hickory Corners, MI, USA</p> <p>4:00 Ecological Implications of Erratic Floods in Large River Floodplains of the Andean Amazon Region -- Jorge E. Celi and Stephen K. Hamilton; Department of Zoology & Kellogg Biological Station, East Lansing, MI, USA</p> <p>4:20 Food Webs of the Wet-dry Tropics: Multiple Sources of Primary Production Fuel Animal Biomass -- Timothy D. Jardine¹, Stephen K. Hamilton², and Stuart E. Bunn¹; ¹Australian Rivers Institute, Griffith University, Nathan, QLD, Australia, ²Kellogg Biological Station, Michigan State University, Hickory Corners, MI, USA</p> <p>4:40 Hydrological Drivers of Organic Matter Quality, Mineralization, and Export in a Tropical Dam-Impacted Floodplain System -- Roland Zurbrugg^{1,2}, Stephan Suter¹, Moritz F. Lehmann³, Bernhard Wehrli^{1,2} and David B. Senn^{1,2}; ¹ETH Zürich, Institute of Biogeochemistry and Pollutant Dynamics, Zürich, Switzerland, ²Eawag, Swiss Federal Institute of Aquatic Science and Technology, Surface Waters - Research and Management, Kastanienbaum, Switzerland, ³University of Basel, Institute of Environmental Geosciences, Basel, Switzerland</p>

Monday, June 4, 2012 | 3:30pm – 5:00pm

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<p>Session #29: An Integrated Approach for Sustainable Use of Wetlands</p> <p>[Bonaire 1 & 2]</p> <p>Moderator: Wolfgang Junk, Federal University of Mato Grosso, Cuiaba, Brazil</p> <p>3:30 Session Overview</p> <p>3:40 Habitat Classification of Wetlands: A Powerful Tool for Research, Management, and Protection -- Wolfgang J. Junk^{1,2}; ¹National Institute for Science and Technology in Wetlands (INCT-INAU), ²Federal University of Mato Grosso, Cuiabá, Brasil</p> <p>4:00 Biodiversity and Management of Pantanal Wetlands: an Approach for the Sustainable Use of Brazilian Wetlands -- C. Nunes da Cunha^{1,2}, J.M. Penha^{1,2}, J.B. Pinho^{1,2}, M. Soares^{1,2}, V. Layme^{1,2}, M. Aragona^{1,2}, C. Strüßmann^{1,2}; ¹National Institute for Science and Technology in Wetlands (INCT-INAU), ²Universidade Federal de Mato Grosso</p> <p>4:20 Bioprospection for the Sustainable Use of Wetlands -- Paulo T. de Sousa Jr., Claudia L. Strada, Eliana F.C. Dores, E.L. Dall'Oglio and V.C.Silva; Instituto Nacional de Ciência e Tecnologia em Áreas Úmidas (INAU) - Universidade Federal de Mato Grosso (UFMT)</p> <p>4:40 Science and Culture on Education Reinvention -- Michèle Sato; GPEA, UFMT, CPP, INAU, Mato Grosso, Brazil</p>	<p>Session #30: Indicators for Wetland Monitoring and Assessment</p> <p>[Bonaire 3 & 4]</p> <p>Moderator: Patrick Hunt, USDA-ARS, Florence, SC, USA</p> <p>3:30 Session Overview</p> <p>3:40 Denitrification Enzyme Activity in Mid-Atlantic Coastal Plain Wetlands -- Patrick Hunt;p USDA-ARS, Florence, SC, USA</p> <p>4:00 Alteration of Riparian Plant Community Structure Under Climate Change Scenarios: The Effects of Temperature and Hydroperiod -- Neal Flanagan, Curtis J. Richardson, and Mengchi Ho; Duke University, Durham NC, USA</p> <p>4:20 Environmental Constraints and Species Differences in Establishment and Expansion of Three Freshwater Tidal Marsh Plant Species -- Taylor M. Sloey and Mark W. Hester, University of Louisiana at Lafayette, Coastal Plant Ecology Laboratory, Lafayette, LA, USA</p> <p>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</p>	<p>Session #31: Olentangy River Wetland Research Park: Investigating Wetland Ecosystem Services at Multiple Landscape Scales (Part 3 of 3)</p> <p>[Bonaire 5 & 6]</p> <p>Moderator: Chris Anderson, Auburn University, Auburn, AL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Determining the Role of Different Wetland Plant Communities on the Export Of Dissolved Organic Carbon in the Florida Everglades – A Mesocosm Experiment -- Jorge A. Villa, William J. Mitsch; The Ohio State University, Columbus, OH, USA</p> <p>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</p> <p>4:20 Wetland Carbon Dynamics in the Eastern Tibetan Plateau -- Li Zhang¹, Zhiming Lv² and Zhejiang Zhou³; ¹Olentangy River Wetland Research Park, The Ohio State University, Columbus, Ohio, USA, ²Northeast Normal University, Changchun, China, ³Sichuan University, Chengdu, China</p> <p>4:40 Discussion</p>	<p>Session #32: Interrelationships among Hydrological, Biodiversity and Land Use Features of the Pantanal (Brazil) and Everglades (Part 3 of 3)</p> <p>[Bonaire 7 & 8]</p> <p>Moderator: Catia Nunes da Cunha, UFMT, Cuaiaba, Brazil</p> <p>3:30 Session Overview</p> <p>3:40 Biogeochemical Segmentation and Derivation of Protective Numeric Nutrient Criteria for Coastal Everglades waters, South Florida -- Henry O. Briceño¹, Joseph N. Boyer² and Joffre Castro³; ¹Southeast Environmental Research Center, Florida International University, Miami, FL, USA, ²SERC & Dept. Earth & Environment, Florida International University, Miami, FL, USA, ³Everglades National Park, National Park Service, Homestead, FL, USA</p> <p>4:00 Dissolved Organic Matter in Large, Subtropical, Freshwater Wetlands: A Comparative Study Between the Pantanal, Everglades and Okavango Delta -- R. Jaffé¹, K. Cawley¹, N. Hertkorn², C. Nunes da Cunha³, P. Wolzki⁴ and D. Calheiros⁵; ¹Florida International University, Miami, FL, USA, ²Helmholtz Center, Munich, Germany, ³Universidade Federal de Mato Grosso, Cuiaba, Brazil, ⁴University of Botswana, Maun, Botswana, ⁵EMBRAPA, Curumba, Brazil</p> <p>4:20 The Influence of Abiotic and Biotic Seed Dispersal Vectors on Vegetation Structure in the Everglades and Pantanal -- Scott Markwith¹ and Erich Fischer²; ¹Florida Atlantic University, Boca Raton, FL, USA, ²Universidade Federal de Mato Grosso do Sul, Campo Grade, MS, Brazil</p> <p>4:40 Discussion</p>

Monday, June 4, 2012 3:30pm – 5:00pm			
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<p>Session #33: Integrating Biophysical and Economic Values of Wetlands [Curacao 1 & 2]</p> <p>Moderator: Mark Brown, University of Florida, Gainesville, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Integrating Biophysical and Economic Values of Wetlands -- Mark T. Brown; University of Florida, Gainesville, FL, USA</p> <p>4:00 Integrating Biophysical and Economic Values of Wetlands: Recent Advances in Ecosystem Service Valuation -- Damian C. Adams; University of Florida, Gainesville, FL, USA</p> <p>4:20 Ecosystem Services of Restored Freshwater Wetlands of the Agricultural Midwest: Measurement and Valuation -- Christopher Craft¹, Anya Hopple¹, John Marton¹, Brianna Richards¹ and Siobhan Fennessy²; ¹School of Public and Environmental Affairs, Indiana University, Bloomington, IN, USA, ²Department of Biology, Kenyon College, Gambier, OH, USA</p> <p>4:40 Money and Embodied Energy-Based Valuations for Wetlands Utilization of Wastewater Treatment -- Jae-Young Ko; Texas A & M University at Galveston, Galveston, TX, USA</p>	<p>Session #34: Impact of Peatland Fires on Ecosystem Function and Feedbacks to Climate: A Global Perspective (Part 1 of 2) [Curacao 3 & 4]</p> <p>Moderator: Brian Benscoter, Florida Atlantic University, Davie, FL, USA, and Merritt Turetsky, University of Guelph, Guelph, ON, Canada</p> <p>3:30 Session Overview</p> <p>3:40 Fire and Carbon Cycling in Boreal North American Peatlands -- Brian W. Benscoter¹ and Merritt R. Turetsky²; ¹Department of Biological Science, Florida Atlantic University, Davie, FL, USA, ²Department of Integrative Biology, University of Guelph, Guelph, Ontario, Canada</p> <p>4:00 Effects of Permafrost Thaw on Northern Peatland Methane Emissions -- M.R. Turetsky; Department of Integrative Biology, University of Guelph</p> <p>4:20 Smoldering Mega-fires in Wetlands and Positive Feedbacks to the Climate System -- Guillermo Rein and Rory Hadden; University of Edinburgh, UK</p> <p>4:40 Smoldering Combustion of Organic Soils on the North Carolina Coastal Plain -- J. Reardon¹ and Gary M Curcio²; ¹U.S. Forest Service, RMRS Fire Science Laboratory, Missoula, MT, USA, ²IPA Fire Environment Specialists, Kinston, NC</p>	<p>Session #35: Invasive Species – Plants [Curacao 5 & 6]</p> <p>Moderator: Jennifer Sagan, Water & Air Research, Inc., Gainesville, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Parallel Universes: Remarkable Similarities in the Siege of Invasive Species on Florida and Hawaii -- Steven C. Hess¹ and Lloyd L. Loope²; ¹U.S. Geological Survey Pacific Island Ecosystems Research Center, Kilauea Field Station, HI, USA, ²U.S. Geological Survey Pacific Island Ecosystems Research Center, Maui Field Station, HI, USA</p> <p>4:00 Habitats Invaded by European Frogbit (<i>Hydrocharis morsus-ranae</i>) in Lake Ontario Coastal Wetlands -- Brad M. Mudrzyński, 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</p> <p>4:20 Effects of Introduced <i>Spartina alterniflora</i> 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</p> <p>4:40 Endangered Species Recovery vs. Eradication of an Invasive Ecosystem Engineer: The Surprising Story of the Invasive <i>Spartina</i> Project - Drew W. Kerr; San Francisco Estuary Invasive <i>Spartina</i> Project, Berkeley, CA, USA</p>	<p>Session #36: Emerging Science in the Management of Wetlands (Part 2 of 2) [Curacao 7 & 8]</p> <p>Moderator: Nicholas Aumen, Everglades National Park, Boynton Beach, FL, USA</p> <p>3:30 Session Overview</p> <p>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 Dobberfuhl; St. John's River Water Management District, Palatka, FL, USA</p> <p>4:00 Understanding the Invasion and Management of <i>Melaleuca quinquenervia</i> from Top-down to Bottom-up -- Melissa R. Martin¹, Philip W. Tipping², and K.R. Reddy³; ¹United States Fish and Wildlife Service, A.R.M. Loxahatchee National Wildlife Refuge, Boynton Beach, FL, USA, ²United States Department of Agriculture, Agricultural Research Service, Invasive Plant Research Laboratory, Fort Lauderdale, FL, USA, ³University of Florida, Department of Soil and Water Science, Gainesville, FL, USA</p> <p>4:20 Soil Nutrient Storage and Cycling in the Restored Kissimmee River Floodplain -- Todd Z. Osborne¹, Vimala D. Nair¹, Larry R. Ellis¹, Brad Jones², & Willie Harris³; ¹Soil and Water Science Department, University of Florida, Gainesville, FL, USA, ²Lake and River Ecosystems Section, South Florida Water Management District, West Palm Beach, FL, USA</p> <p>4:40 Water Quality Constrains Hydrologic Management Options for a Northern Everglades Peatland - Paul V. McCormick¹, Michael G. Waldon², Rebekah E. Gibble² and Eric S. Crawford³; ¹Joseph W. Jones Ecological Research Center, Newton, GA, USA, ²Arthur R. Marshall Loxahatchee National Wildlife Refuge, Boynton Beach, FL, USA, ³South Florida Water Management District, West Palm Beach, FL, USA</p>

Tuesday, June 5, 2012 | 10:30am – 12:00pm

37	38	39	40
<p>Session #37: GEER Plenary Session – Restoring the Heart of the Everglades</p> <p>[Grand Sierra Ballroom B]</p> <p>Moderator: G. Ronnie Best, USGS, Ft. Lauderdale, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 – 12noon Panelists: Shannon Estenoz, Col. Al Pantano, Melissa Meeker and Dan Kimball</p> <p>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.</p>	<p>Session #38: Climate Change Management</p> <p>[Grand Sierra Ballroom C]</p> <p>Moderator: Lance Gunderson, Emory University, Atlanta, GA, USA</p> <p>10:30 Session Overview</p> <p>10:40 Managing Crises, Climate Change and Ecological Resilience in Complex Resource Systems -- Lance Gunderson¹, Kathleen D. White², ¹Emory University, Atlanta GA USA, ²U.S. Army Corps of Engineers, Institute for Water Resources, Washington DC USA</p> <p>11:00 Enhanced Adaptive Management for Everglades in Response to Climate Change -- Matteo Convertino^{1,2}, Christy M. Foran¹, Jeffrey M. Keisler³, Lynn Scarlett⁴, Andy LoSchiavo⁵, Gregory A. Kiker² and Igor Linkov¹; 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</p> <p>11:20 Climate Change and Western Australian Aquatic Ecosystems: Impacts and Adaptation -- Jane Chambers^{1,4}, Frances D'Souza², Romeny Lynch^{2,3}, Michael Coote³ and Kirsí Kauhanen^{1,4}; 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</p> <p>11:40 Water and Plants Regulate Temperatures and Local Climate – A Case Study from Třeboň Biosphere Reserve -- Jan Pokorný¹ and Petra Hesslerová^{1,2}; ¹ENKI, o.p.s. Třeboň, Czech Republic, ²Czech University of Life Sciences, Faculty of Environmental Sciences, Prague, Czech Republic</p>	<p>Session #39: Ecology of Tree Islands in the Everglades</p> <p>[Antigua 1 & 2]</p> <p>Moderator: Sharon Ewe, Ecology and Environment Inc., Wellington, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Ecological Patterns and Processes in Ghost Tree Islands of the Everglades -- Sharon M. L. Ewe¹, Binhe Gu², Jennifer Vega¹ and Kristin Vaughan¹; ¹Ecology and Environment Inc., Wellington, FL, USA, ²South Florida Water Management District, West Palm Beach, FL USA</p> <p>11:00 Soil Phosphorus Characteristics in Tree Islands of the Florida Everglades -- Daniel L. Irick¹, Yuncong Li¹, Patrick W. Inglett¹, Willie 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</p> <p>11:20 The Influence of Salinity on Coastal Hammocks in Everglades National Park -- Sonali Saha¹ and Jimi Sadle²; ¹The Institute for Regional Conservation, FL, USA, ²Everglades National Park, FL, USA</p> <p>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 Cline²; ¹Southeast Environmental Research Center, Florida International University, Miami, FL, USA, ²South Florida Water Management District, Everglades Division, West Palm Beach, FL, USA</p>	<p>Session #40: Plant-nutrient Interactions in Tropical Wetlands</p> <p>[Antigua 3 & 4]</p> <p>Moderator: Omar Lopez, Institute of Advanced Scientific Research and High Technology Services (INDICASAT), Clayton, Panama</p> <p>10:30 Session Overview</p> <p>10:40 Plant–Nutrient Interactions in a Neotropical Ombrotrophic Peatland -- Alexander W. Cheesman¹, Jorge Hoyos², Omar Lopez³, Sofie Sjogersten² and Benjamin L. Turner¹; ¹Smithsonian Tropical Research Institute, Balboa, Ancon, Republic of Panama, ²University of Nottingham, School of Biosciences, Sutton Bonington Campus, UK, ³Institute of Advanced Scientific Research and High Technology Services (INDICASAT), Clayton, Republic of Panama</p> <p>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. Lovelock²; ¹Smithsonian Environmental Research Center, Smithsonian Institution, Edgewater, MD, USA, ²Centre for Marine Studies/School of Integrative Biology, University of Queensland, St Lucia</p> <p>11:20 Considering Nitrogen and Black Mangrove (<i>Avicennia germinans</i>) In Context: Lessons Learned -- Christine N. Pickens¹, Karen L. McKee² 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</p> <p>11:40 A Test of the Nutrient Redistribution Hypothesis in the Everglades Ridge and Slough Landscape -- Morgan Maglio, Laurel Larsen, Gregory Noe and Judson Harvey; U.S. Geological Survey, National Research Program, Reston, VA USA</p>

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<p>Session #41: Mercury Fate, Transport & Bioaccumulation in Wetlands (Part 1 of 3) [Bonaire 1 & 2]</p> <p>Moderator: Christopher Knightes, USEPA, Athens, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Mercury Bioaccumulation in Pythons from the Florida Everglades -- David Krabbenhoft¹, Michael Tate¹, Jacob Ogorek¹, John DeWild¹, Charlie Thompson¹, Kristen Hart² and Skip Snow³; ¹U.S. Geological Survey, Middleton, WI, USA, ²U.S. Geological Survey, Davie, FL, USA, ³National Park Service, Everglades National Park, Homestead, FL, USA</p> <p>11:00 Understanding the Dissolved Organic Matter-Mercury Connection in Wetlands: Lessons from the Florida Everglades -- George Aiken¹, Brian Bergamaschi², Cynthia Gilmour³, David Krabbenhoft⁴ and William Orem⁵; ¹U.S. Geological Survey, Boulder, CO, USA, ²U.S. Geological Survey, Sacramento, CA, USA, ³Smithsonian Environmental Research Center, Edgewater, MD, USA, ⁴U.S. Geological Survey, Middleton, WI, USA, ⁵U.S. Geological Survey, Reston, VA, USA</p> <p>11:20 Hydrologic Controls on Methylmercury Transport from Wetlands to Stream in Coastal Plain Basins -- Paul M. Bradley¹, Celeste A. Journey¹, Paul A. Conrads¹, Mark E. Brigham², Douglas A. Burns³ and Karen Riva-Murray³; ¹U.S. Geological Survey, Columbia, SC, USA, ²U.S. Geological Survey, Mounds View, MN, USA, ³U.S. Geological Survey, Troy, NY, USA</p> <p>11:40 Mercury Bioaccumulation by Macroinvertebrates and Fishes of Streams in Contrasting Landscapes - Karen Riva-Murray¹, Lia C. Chasar², Paul M. Bradley³, Douglas A. Burns¹ and Martyn A. Smith¹; ¹U.S. Geological Survey, Troy, NY, USA, ²U.S. Geological Survey, Tallahassee, FL, USA, ³U.S. Geological Survey, Columbia, SC, USA</p>	<p>Session #42: Linking Microbial Community Structure to Greenhouse Gas Emissions from Wetlands [Bonaire 3 & 4]</p> <p>Moderator: Paul Bodelier, Netherlands Institute of Ecology (NIOO-KNAW), Wageningen, Netherlands</p> <p>10:30 Session Overview</p> <p>10:40 Linking Methane Production Rate to Methanogen Community Structure in Peatland Soils -- Brendan Bohannan, Steven A. McAllister, Scott D. Bridgman and Qusheng Jin; University of Oregon, Eugene, OR, USA</p> <p>11:00 Methane Emission and Microbial Communities of the Methane Cycle in Natural and Drained Peatlands -- Irina K. Kravchenko¹, Anna K. Kizilova¹ and Andrey A. Sirin²; ¹Winogradsky Institute of Microbiology RAS, Moscow, Russia, ²Institute of Forest Science RAS, Uspenskoe, Moscow region, Russia</p> <p>11:20 Microbial Communities in Restored Freshwater Wetlands -- Susannah G. Tringe¹, Shaomei He¹, Mark Waldrop² and Lisamarie Windham-Myers²; ¹DOE Joint Genome Institute, Walnut Creek, CA, USA, ²U.S. Geological Survey, Menlo Park, CA, USA</p> <p>11:40 Life at the Front: Microbial Ecology of Shifting Nutrient Limitations and Methanogenesis in the Northern Everglades -- Andrew Ogram¹, Hee-Sung Bae¹, Beth Huettel², Z. He³, J. Chanton² and J. Zhou³; ¹University of Florida, Gainesville, FL USA, ²Florida State University, Tallahassee, FL USA, ³University of Oklahoma, Norman, OK USA</p>	<p>Session #43: The Ecology of Livelihoods in Papyrus Wetlands: Ecosystem Functions, Services and Livelihoods (Part 1 of 3) [Bonaire 5 & 6]</p> <p>Moderator: Anne Van Dam, UNESCO-IHE Institute for Water Education, Delft, Netherlands</p> <p>10:30 Session Overview</p> <p>10:40 Response of Papyrus Wetland Ecosystem to Seasonal Changes in Hydrology and Livelihood Pressures -- Priscah J. Rongoei¹, Julius Kipkemboi² and Anne A. van Dam³; ¹Egerton University, Department of Environmental Sciences, Egerton, Kenya, ²Egerton University, Department of Biological Sciences, Egerton, Kenya, ³UNESCO-IHE Institute for Water Education, Delft, The Netherlands</p> <p>11:00 Groundwater-Surface Water Interactions in a Papyrus Wetland -- Patrick S. Khisa^{1,2}, Stefan Uhlenbrook^{2,3}, Jochen Wenninger^{2,4}, Ann van Griensven^{2,4} and Margaret Abira¹; ¹Water Resources Management Authority, Lake Victoria South Catchment Area, Kisumu, Kenya, ²UNESCO-IHE Institute for Water Education, Delft, The Netherlands, ³Delft University of Technology, Delft, The Netherlands, ⁴Vrije Universiteit Brussel, Brussels, Belgium</p> <p>11:20 Birds, People and Papyrus Swamps: Balancing Livelihoods and Biodiversity Conservation -- Ilya M. D. Maclean; Centre for Ecology and Conservation, Biosciences, College of Life and Environmental Sciences, University of Exeter, Penryn, UK</p> <p>11:40 Effect of Vegetation Harvesting on Nitrogen and Phosphorous Cycling in Rooted Papyrus Wetlands -- Edwin M.A. Hes¹, Anne A. van Dam¹, Ren Niu² and Kenneth Irvine¹; ¹UNESCO-IHE Institute for Water Education, Delft, The Netherlands, ²Beijing Public Utility Science Research Institute, China P.R.</p>	<p>Session #44: Measurement of Greenhouse Gas Emissions from Wetlands (Part 1 of 3) [Bonaire 7 & 8]</p> <p>Moderator: Ken Krauss, U.S. Geological Survey, Lafayette, LA, USA</p> <p>10:30 Session Overview</p> <p>10:40 Net Ecosystem Carbon Exchange of Mangroves: Complexities in Developing Global Budgets -- Robert Twilley; University of Louisiana at Lafayette, Lafayette, LA, USA</p> <p>11:00 Variable Effects of Nutrient Enrichment on Soil Respiration in Mangrove Forests -- Catherine E. Lovelock¹, Ilka C. Feller², Roger W. Ruess³; ¹School of Biological Sciences, University of Queensland, St Lucia, Australia, ²Smithsonian Environmental Research Center, Edgewater, MD, USA, ³Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, Alaska, USA</p> <p>11:20 Soil CO₂ and CH₄ Emissions and Carbon Budgeting in Dry Floodplain Wetlands -- Jackie Batson¹, Gregory B. Noe¹, Cliff R. Hupp¹, Ken W. Krauss², Nancy B. Rybicki¹ and Edward R. Schenk¹; ¹National Research Program, U.S. Geological Survey, Reston, VA, USA, ²National Wetlands Research Center, U.S. Geological Survey, Lafayette, LA, USA</p> <p>11:40 Approaches and Limitations to Quantifying Plant Regulation of Methane Emissions -- J. Patrick Megonigal; Smithsonian Environmental Research Center, Edgewater, MD, USA</p>

Tuesday, June 5, 2012 | 10:30am – 12:00pm

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<p>Session #45: Success Strategies for Graduate School and Beyond [Curacao 1 & 2]</p> <p>Moderator: Lisa Chambers, University of Florida, Gainesville, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 The Importance of Mentoring for Student Success in the Sciences -- Julia A. Cherry, University of Alabama, Tuscaloosa, AL, USA</p> <p>11:00 Taking Your Science to the General Public: The Extension Model -- Mark W. Clark, University of Florida, Gainesville, FL, USA</p> <p>11:20-12Noon</p> <p>Discussion Panel: Taking the Next Step: Tips for Navigating the Post-Graduate Job Market</p> <p>Participants: Camille Stagg (USGS), Ariana Sutton-Grier (NOAA), Lisa Chambers (University of Florida), Jason Keller (Chapman University), Kim de Mutsert (George Mason University)</p>	<p>Session #46: Impact of Peatland Fires on Ecosystem Function and Feedbacks to Climate: A Global Perspective (Part 2 of 2) [Curacao 3 & 4]</p> <p>Moderators: Brian Benscoter, Florida Atlantic University, Davie, FL, USA, and Merritt Turetsky, University of Guelph, Guelph, ON, Canada</p> <p>10:30 Session Overview</p> <p>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</p> <p>11:00 Peat Bog Wildfire Smoke Exposure in Rural North Carolina Is Associated with Cardio-Pulmonary Emergency Department Visits -- Robert B. Devlin¹, Ana G. Rappold¹, Susan L. Stone¹, Wayne E. Cascio¹, Lucas M. Neas¹, Vasu J. Kilaru², Martha Sue Carraway¹, James J. Szykman³, Amy Ising⁴, William E. Cleve⁵, 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</p> <p>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</p> <p>11:40 Panel Discussion & Synthesis</p>	<p>Session #47: Wetland Management [Curacao 5 & 6]</p> <p>Moderator: Bob Ford, US Fish and Wildlife Service, Atlanta, GA, USA</p> <p>10:30 Session Overview</p> <p>10:40 Making Science Real – Using State Of Environment Reporting To Improve Wetland Practice -- Damian Walters, Wildlife & Environment Society of South Africa, Pretoria, Gauteng, South Africa</p> <p>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</p> <p>11:20 Building up Resilience for Climate Change in a Coastal Community of Tamil Nadu, India -- Guilherme M. O. Abuchahla¹, Wilhelm Windhorst² and Yara Schaeffer-Novelli³; 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</p> <p>11:40 Local Institutional Arrangements for Wetland Management in Ethiopia and Malawi - Alan B Dixon, University of Worcester, United Kingdom</p>	<p>Session #48: Wetlands: Extension/Outreach [Curacao 7 & 8]</p> <p>Moderator: M L Robinson, University of Nevada, Las Vegas, NV, USA</p> <p>10:30 Session Overview</p> <p>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</p> <p>11:00 URBAN, a Citizen-Science Program Based in Hamilton, Ontario -- Patricia Chow-Fraser, Lyndsay Cartwright and Maja Cvetkovic; McMaster University, Hamilton, Ontario, Canada</p> <p>11:20 Schoolyard Wetlands: Creating Aquatic Spaces for Learning -- Charles Andrew Cole; Penn State University, University Park, PA, USA</p> <p>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</p>

Tuesday, June 5, 2012 | 1:30pm – 3:00pm

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<p>Session #49: Tradeoffs in Wetland Ecosystem Services in Working Landscapes - Conceptual Frameworks (Part 1 of 2)</p> <p>[Grand Sierra Ballroom B]</p> <p>Moderator: Hilary Swain, Archbold Biological Station, Venus, FL, USA</p> <p>1:30 Session Overview</p> <p>1:40 Trade-offs in Wetland Ecosystem Services: Identification, Spatial Scale, and Management Implications -- Elizabeth Boughton¹ and Hilary Swain²; ¹MacArthur Agro-ecology Research Center, Lake Placid, FL, ²Archbold Biological Station, Venus, FL, USA</p> <p>2:00 Sustaining Wetlands in Working Landscapes: Using Functional Processes to Inform Tradeoff Decisions -- N. H. Euliss, Jr.¹, L. M. Smith², D. M. Mushet¹, S. T. McMurry² and W. R. Effland³; ¹U.S. Geological Survey, Jamestown, ND, USA, ²Oklahoma State University, Stillwater, OK, USA, ³USDA, Natural Resources Conservation Service, Beltsville, MD, USA</p> <p>2:20 Restoring Southeastern Wetlands through the Wetlands Reserve Program: Ecological and Programmatic Trade-offs -- Diane De Steven¹ and Joel M. Gramling²; ¹U.S. Forest Service Southern Research Station, Stoneville, MS, USA, ²The Citadel, Charleston, SC, USA</p> <p>2:40 Wetland Ecosystem Services in Agricultural Landscapes: Opportunities and Risks -- J.T.A. Verhoeven, Ecology and Biodiversity, Department of Biology, Utrecht University, The Netherlands</p>	<p>Session #50: Ecosystem Models & Adaptive Management (Part 1 of 2)</p> <p>[Grand Sierra Ballroom C]</p> <p>Moderator: Stephanie Romanach, US Geological Survey, Fort Lauderdale, FL, USA</p> <p>1:30 Session Overview</p> <p>1:40 Application of Adaptive Management for Wetland Restoration: An Overview of a Large-Scale Everglades Physical Model -- Fred Sklar¹, Scot E. Hagerthey², Susan Newman¹, Colin J. Saunders¹, Joel Trexler³, Laurel Larson⁴, Jud Harvey⁴, Vic Engel⁵, David Ho⁶, Katie Skalak⁴, Sue Wilcox⁷ and Barry Rosen⁴; ¹South Florida Water Management District, West Palm Beach, FL, USA, ²U.S. Environmental Protection Agency, Arlington, VA, USA, ³Florida International University, Miami, FL, USA, ⁴U.S. Geological Survey, Reston, VA, USA, ⁵Everglades National Park, Homestead, FL, USA, ⁶University of Hawaii, Hilo, HI, USA, ⁷US Army Corps of Engineers, Jacksonville, FL, USA</p> <p>2:00 Model Analysis of Eutrophication Constraints on an Everglades Restoration Project -- H. Carl Fitz^{1,2}, Rajendra Paudel^{1,2} and Andrew Loschiavo³; ¹Ft. Lauderdale Research & Education Center, University of Florida, Davie, FL, USA, ²Soil and Water Science Department, University of Florida, Gainesville, FL, USA, ³US Army Corps of Engineers, Planning Division, RECOVER Branch, Jacksonville, FL, USA</p> <p>2:20 Tools for Broader-Scale Everglades Hydrologic Analysis and Planning -- Walter M. Wilcox, Calvin J. Neidrauer and Christopher W. McVoy; South Florida Water Management District, West Palm Beach, FL, USA</p> <p>2:40 Ridge and Slough Multistate Modeling for Landscape Management -- Christa L. Zweig¹ 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</p>	<p>Session #51: Graduate Student Research on Wetland Complexity in the Florida Coastal Everglades (Part 1 of 2)</p> <p>[Antigua 1 & 2]</p> <p>Moderator: Rebecca Garvoille, Florida International University, Miami, FL, USA</p> <p>1:30 Session Overview</p> <p>1:40 Resource Partitioning Among Three Mesoconsumers 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</p> <p>2:00 Detecting Long-term Community Shifts in Response to Sea Level Rise and Everglades' Restoration -- Kristie S. Wendelberger¹, Jimi Sadle², Sonali Saha³ and Jennifer H. Richards¹; ¹Florida International University, Miami, FL, USA, ²Everglades National Park, Homestead, FL, USA, ³The Institute for Regional Conservation, Miami, FL, USA</p> <p>2:20 Effect of Hydrologic Conditions and Sediment Transport on Wetland Patterning -- Mehrnoosh Mahmoudi¹, Fernando Miralles-Wilhelm² and Reinaldo Garcia³; ¹Department of Earth and Environment, Florida International University, Miami, FL, USA, ²Southeast Environmental Research Center, Florida International University, Miami, FL, USA, ³Department of Civil and Environmental Engineering, Florida International University, Miami, FL, USA</p> <p>2:40 Seasonal Water Chemistry and Spectral Reflectance in Coastal Mangroves -- David Lagomasino^{1,2}, Rene M. Price^{1,2}, Petya K. Campbell³ and Dean Whitman¹; ¹Florida International University, Department of Earth and Environment, Miami, FL, USA, ²Florida International University, Southeast Environmental Research Center, Miami, FL, USA, ³NASA, Goddard Space Flight Center, Biospheric Sciences Branch, Greenbelt, MD, USA</p>	<p>Session #52: Colonization of Wetland Habitat: Succession in Restored Habitats (Part 1 of 2)</p> <p>[Antigua 3 & 4]</p> <p>Moderator: Dennis Whigham, Smithsonian Institution, Edgewater, MD, USA</p> <p>1:30 Session Overview</p> <p>1:40 Dispersal Potential of a Tidal River: Colonization of a Created Tidal Freshwater Marsh on the Delaware River, USA -- Mary Alessio Leck, Rider University, Lawrenceville, NJ, USA</p> <p>2:00 Vegetation Patterns in Prior Converted, Restored, and Reference Wetlands in the U.S. Mid-Atlantic Coastal Plain -- Metthea M. Yepsen¹, Andrew H. Baldwin¹, Eliza McFarland², Marina LaForgia² and Dennis F. Whigham²; ¹University of Maryland, College Park, MD, USA, ²Smithsonian Environmental Research Center, Edgewater, MD, USA</p> <p>2:20 Reproduction, Dispersal, Emergence, and Establishment of <i>Phragmites australis</i> in Disturbances in Chesapeake Bay Tidal Wetlands -- K.M. Kettenring^{1,4}, E.L.G. Hazelton^{1,4}, S.K. Gallagher^{2,4}, H.M. Baron^{3,4}, M.K. McCormick⁴, M. Sievers^{4,5} and D.F. Whigham⁴; ¹Utah State University, Logan, UT, USA, ²University of Wisconsin and Wisconsin Department of Natural Resources, Madison, WI, USA, ³Oregon State University, Corvallis, OR, USA, ⁴Smithsonian Environmental Research Center, Edgewater, MD, USA, ⁵Case Western Reserve University, Cleveland, OH, USA</p> <p>2:40 Barriers to Colonization in Restored Sedge-Dominated Wetlands -- Susan Galatowitsch, University of Minnesota, Saint Paul, MN, USA</p>

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<p>Session #53: Mercury Fate, Transport & Bioaccumulation in Wetlands (Part 2 of 3) [Bonaire 1 & 2]</p> <p>Moderator: Paul Bradley, U.S. Geological Survey, Columbia, SC, USA</p> <p>1:30 Session Overview</p> <p>1:40 Modeling Mercury Exposure at Different Scales in the McTier Creek Watershed and Edisto River Basin, SC, USA -- C. D. Knightes¹, H.E. Golden², P.M. Bradley³, G. Davis¹, C.A. Journey³, P.A. Conrads³ and M.E. Brigham⁴; ¹US Environmental Protection Agency, Office of Research and Development, Ecosystems Research Division, Athens, GA, USA, ²US Environmental Protection Agency, Office of Research and Development, Ecological Exposure Research Division, Cincinnati, OH, USA, ³US Geological Survey, South Carolina Water Science Center, Columbia, SC, USA, ⁴US Geological Survey, Mounds View, MN, USA</p> <p>2:00 Mercury Dynamics in a Coastal Plain Watershed: A Multiple Model Approach -- Heather E. Golden¹, Christopher D. Knightes², Paul A. Conrads³, Gary M. Davis², Toby D. Feaster⁴, Celeste A. Journey³, Stephen T. Benedict⁴, Mark E. Brigham⁵ and Paul M. Bradley³; ¹US Environmental Protection Agency, Office of Research and Development, Ecological Exposure Research Division, Cincinnati, OH, USA, ²US Environmental Protection Agency, Office of Research and Development, Ecosystems Research Division, Athens, GA, USA, ³US Geological Survey, South Carolina Water Science Center, Columbia, SC, USA, ⁴US Geological Survey, South Carolina Water Science Center, Clemson, SC, USA, ⁵US Geological Survey, Mounds View, MN, USA</p> <p>2:20 Evaluation of Mercury Loads from Climate Change Projections for McTier Creek, South Carolina -- Paul A. Conrads¹, Paul M. Bradley¹, Stephen T. Benedict² and Toby D. Feaster²; ¹U.S. Geological Survey, Columbia, SC, USA, ²U.S. Geological Survey, Clemson, SC, USA</p> <p>2:40 Landscape Controls on Total and Methyl Hg in the Upper Hudson River Basin, New York, USA -- D.A. Burns¹, K. Riva-Murray¹, P.M. Bradley², G.R. Aiken³ and M.E. Brigham⁴; ¹U.S. Geological Survey, Troy, NY, USA, ²U.S. Geological Survey, Columbia, SC, USA, ³U.S. Geological Survey, Boulder, CO, USA, ⁴U.S. Geological Survey, Mounds View, MN, USA</p>	<p>Session #54: Linkages - Microbial Communities and Biogeochemistry (Part 1 of 2) [Bonaire 3 & 4]</p> <p>Moderator: Paul Bodelier, Netherlands Institute of Ecology (NIOO-KNAW), Wageningen, Netherlands</p> <p>1:30 Session Overview</p> <p>1:40 Nitrogen Cycling in Headwater Wetlands across Condition Gradients in Pennsylvania and Ohio -- Jessica B. Moon¹, Denice H. Wardrop¹, M. Siobhan Fennessy², Hannah M. Ingram¹ and Nicole Kirchner²; ¹Penn State University, University Park, PA, USA, ²Kenyon College, Gambier, OH, USA</p> <p>2:00 The Effect of Hydrology on the Distribution of Ammonia-Oxidizing Betaproteobacteria in Impounded Black Mangroves (Avicennia Germinans) -- Hendrikus J. Laanbroek^{1,2,3}, Rosalinde M. Keijzer¹, Jos T.A. Verhoeven^{2,3} and Dennis F. Whigham³; 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</p> <p>2:20 Microbial Community Changes During Residence of Treated Wastewater in a Constructed Wetland -- B.T.M. Mulling¹, A.M. Soeter¹, H.G. van der Geest¹ and W. Admiraal¹; ¹Department of Aquatic Ecology and Ecotoxicology, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, the Netherlands</p> <p>2:40 Microbial Degradation of Pesticides in Wetlands: Effects of Season Bound Changes -- Pieter Vandermeeren, François Moesen, Jan Diels and Dirk Springael; Division Soil and Water Management, Katholieke Universiteit Leuven, Belgium</p>	<p>Session #55: The Ecology of Livelihoods in Papyrus Wetlands: Ecosystem Functions, Services and Livelihoods (Part 2 of 3) [Bonaire 5 & 6]</p> <p>Moderator: J.B. Okeyo-Owuor, Vired International, Kisumu, Kenya</p> <p>1:30 Session Overview</p> <p>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 Mohamed^{1,2,3}; ¹Hydraulic Research Station, Ministry of Irrigation and Water Resources, Wad Medani, Sudan, ²UNESCO-IHE Institute for Water Education, Department of Management and Institutions, Delft, The Netherlands, ³Delft University of Technology, Department of Water Resources, Delft, The Netherlands</p> <p>2:00 Controls of Denitrification in Papyrus Wetlands of the Nyando and Mara Rivers, East Africa -- Gretchen M. Gettel¹, Kuenzang Tshering^{1,2} and Hawa Nakitende^{1,3}; ¹UNESCO-IHE Institute of Water Education, Delft, The Netherlands, ²Royal University of Bhutan, Thimphu, Bhutan, ³National Water and Sewerage Corporation, Kampala, Uganda</p> <p>2:20 The Effects of Wastewater Discharge, Agriculture and Papyrus Harvesting on the Nutrient Regulation Function of Namatala Wetland, Uganda -- Susan Namaalwa¹, Anne A. van Dam², Ajie Guruh², Rose C. Kaggwa¹ and Andrew Sekayizzi¹; ¹National Water and Sewerage Corporation, Kampala, Uganda, ²UNESCO-IHE Institute for Water Education, Delft, The Netherlands</p> <p>2:40 Institutions and Governance: Commercialization of Wetland Resources and its Effect on Traditional Institutions in the Nyando Papyrus Wetlands, Kenya -- Serena Nasongo^{1,5}, Fred Zaal^{1,2}, Ton Dietz^{1,3} and J.B. Okeyo-Owuor^{4,5}; 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</p>	<p>Session #56: Measurement of Greenhouse Gas Emissions from Wetlands (Part 2 of 3) [Bonaire 7 & 8]</p> <p>Moderator: Kevin Kroeger, USGS, Woods Hole, MA, USA</p> <p>1:30 Session Overview</p> <p>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. Herbert¹, and Christopher B. Craft¹; ¹Indiana University, Bloomington, IN, ²U.S. Geological Survey, Lafayette, LA, USA</p> <p>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</p> <p>2:20 Blue Carbon in Wetlands: Consideration of Lateral and Vertical Greenhouse Gas Fluxes -- Kevin D. Kroeger¹, Neil Ganju¹, John W. Pohlman¹, Serena Moseman-Valtierra², Jianwu Tang³ and Christopher Weidman⁴; 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</p> <p>2:40 Considering Scale When Assessing Wetland Methane Emissions: Wetland Forest Soils versus Wetland Forests -- Vincent Gauci and Sunitha R. Pangala; The Open University, Milton Keynes, UK</p>

Tuesday, June 5, 2012 | 1:30pm – 3:00pm

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<p>Session #57: Symposium on Wetland Delineation and Regionalization (Part 1 of 2) [Curacao 1 & 2]</p> <p>Moderator: Jacob Berkowitz, US Army Corps of Engineers, Vicksburg, MS, USA</p> <p>1:30 Session Overview</p> <p>1:40 Regionalizing the Corps of Engineers Wetland Delineation Manual - The Role of the National Technical Committee for Wetland Vegetation -- Paul Minkin¹ and Jacob F. Berkowitz²; ¹Army Corps of Engineers, Concord, MA, USA, ²Army Corps of Engineers, Engineer Development and Research Center, Vicksburg, MS, USA</p> <p>2:00 Bringing Science and Technology to the National Wetland Plant List -- R.W. Lichvar and J.J. Gilrich, U.S. Army Corps of Engineers, Hanover, NH, USA</p> <p>2:20 Developing a National Standard for Challenges to the National Wetland Plant List -- J.J. Gillrich and R.W. Lichvar; U.S. Army Corps of Engineers, Hanover, NH, USA</p> <p>2:40 Wetland Characteristics of Glacially Derived Boulder Fields in the Northeastern United States -- Lindsey E. Dixon, Robert W. Lichvar, Katherine Curtis and Jennifer Gillrich¹; U.S. Army Corps of Engineers Cold Regions and Research Engineering Laboratory, Hanover, NH, USA</p>	<p>Session #58: Fire: Shaping Wetlands from Nutrients to Wildlife (Part 1 of 4) [Curacao 3 & 4]</p> <p>Moderator: Adam Watts, University of Florida, Gainesville, FL, USA</p> <p>1:30 Session Overview</p> <p>1:40 The Impact of Fire on Soil and Plant Nutrient Levels in Calcareous Subtropical Wetlands -- Patrick W. Inglett, Benjamin A. Hogue, Cassandra A. Medvedeff, Liao Xiaolin and Todd Osborne; University of Florida, Gainesville, FL, USA</p> <p>2:00 Fire and Flooding Interactions: Vegetation Trajectories in the Southern Everglades Marl Prairies, Florida, USA -- Jay P. Sah¹, Michael S. Ross¹, Pablo L. Ruiz¹ and James R. Snyder²; ¹Florida International University, Miami, FL, USA, ²US Geological Survey, Southeast Ecological Science Center, Ochopee, FL, USA</p> <p>2:20 Fire Effects on Nitrogen Cycle in Calcareous 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</p> <p>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</p>	<p>Session #59: Mapping and Monitoring Large Wetland Systems and Biophysical Properties with Earth Observation Satellite Imagery (Part 1 of 2) [Curacao 5 & 6]</p> <p>Moderators: Maycira Costa, University of Victoria, Victoria, Canada, and Thiago Sanna Freire Silva, National Institute for Space Research, São José dos Campos, Brazil</p> <p>1:30 Session Overview</p> <p>1:40 Mapping Floodplain Dynamics of the Amazon River Basin Using the Space-borne ALOS PALSAR Synthetic Aperture Radar -- Bruce Chapman¹, Laura Hess², Bruce Forsberg³ and Kyle McDonald⁴; ¹Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA, ²University of California, Santa Barbara, California, USA, ³Instituto Nacional de Pesquisas da Amazonia, Manaus, Brazil, ⁴The City College of New York, City University of New York, New York, New York, USA</p> <p>2:00 Monitoring <i>Spartina</i> Marshes in the Argentine Coast: Integrating Biophysical Parameters, Hyperspectral Field Data and Satellite Observations -- Gabriela González-Trilla^{1,2}, Patricia Kandus¹ and Jorge Marcovecchio^{2,3}; ¹Universidad Nacional de San Martín (UNSAM), Argentina, ²Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina, ³Instituto Argentino de Oceanografía (IADO), Argentina</p> <p>2:20 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</p> <p>2:40 Deforestation Evolution in the Amazon Floodplain -- F. Vivian Renó¹; Evelyn L. Novo¹; Chieno Suemitsu² and Thiago S. F. Silva¹; ¹International Institute of Space Research, São José dos Campos, SP, Brazil, ²Federal University of Pará, Santarém, PA, Brazil</p>	<p>Session #60: The Unique and Complex Relationships between Natural Wetland and Upland Habitats and Phosphate Mining (Part 1 of 2) [Curacao 7 & 8]</p> <p>Moderator: Kym Rouse Campbell, ENVIRON International Corp., Tampa, FL, USA</p> <p>1:30 Session Overview</p> <p>1:40 Environmental Benefits of Stream Restoration on Phosphate Mined Lands -- Kristen B. Nowak and John H. Kiefer; AMEC-BCI Engineers & Scientists, Inc., Lakeland, FL, USA</p> <p>2:00 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</p> <p>2:20 Potential Benefits of Incorporating Biochar, a Soil Amendment, into Wetland Reclamation -- Tyler Nicoll, Ground Level, Inc. Bartow, FL, USA</p> <p>2:40 Discussion</p>

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<p>Session #61: Tradeoffs in Wetland Ecosystem Services in Working Landscapes - Biodiversity and Hydrologic Services (Part 2 of 2)</p> <p>[Grand Sierra Ballroom B]</p> <p>Moderator: Elizabeth Boughton, MacArthur Agro-ecology Research Center, Lake Placid, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Effects of Raised Water Levels on Wet Grassland Plant Communities in Southern England -- Chris B. Joyce¹ and Sarah E. Toogood²; ¹School of Environment and Technology, University of Brighton, UK, ²Halcrow Group Ltd., Worcester, UK</p> <p>4:00 The Effects of Cattle Grazing on Breeding Waterfowl in Intermountain Depressional Wetlands -- Lauchlan H Fraser¹, Bruce Harrison², W. Marc Jones^{1,3}, Denise Clark¹ and Brian A. Heise¹; ¹Thompson Rivers University, Kamloops, BC, Canada, ²Ducks Unlimited Canada, Kamloops, BC, Canada, ³University of British Columbia Okanagan, Kelowna, BC, Canada</p> <p>4:20 Assessing Tradeoffs Among Wetland Ecosystem Services in a Payment-for-Ecosystem-Services Program on Florida Ranchlands -- Patrick J. Bohlen¹, Elizabeth Boughton², John E. Fauth¹, David Jenkins¹, Pedro Quintana-Ascencio¹, Sanjay Shukla³, and Hilary Swain⁴; ¹University 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</p> <p>4:40 Hydroecologic Modeling and Decision Support System for Evaluating Environmental Services from Ranchlands in the Northern Everglades -- Sanjay Shukla¹, Gregory A. Kiker¹, Elizabeth Boughton², Patrick J. Bohlen³, John E. Fauth³, David Jenkins³, Pedro Quintana-Ascencio³ and Hilary Swain⁴; ¹Agricultural and Biological Engineering Department, University of Florida, Immokalee and Gainesville, FL, USA, ²MacArthur Agro-ecology Research Center, Lake Placid, FL, USA, ³University of Central Florida, Orlando, FL, USA, ⁴Archbold Biological Station, Lake Placid, FL, USA</p>	<p>Session #62: Ecosystem Models & Adaptive Management (Part 2 of 2)</p> <p>[Grand Sierra Ballroom C]</p> <p>Moderator: Carol Mitchell, Everglades and Dry Tortugas National Park, Homestead, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Connectivity of Wetlands to Downstream Waters: Conceptual Framework and Review -- Scott G. Leibowitz¹, Laurie C. Alexander², Bradley Autrey³, Julie DeMeester⁴, Charles R. Lane³, Stephen D. LeDuc², and Caroline E. Ridley²; ¹U.S. EPA, 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</p> <p>4:00 Visualizing Upper Trophic and Ecosystem Modeling Outputs with EverVIEW to Inform the Decision Process in Coastal Louisiana -- Craig Conzelmann¹, Carol Parsons Richards², Kevin Suir³, Sumani Chimmula⁴ and Mark McKelvy³; ¹U.S. Geological Survey, Lafayette, LA, USA, ²LA Office Coastal Protection and Restoration, Baton Rouge, LA, USA, ³Five Rivers Services, LLC, Colorado Springs, CO, USA, ⁴University of Louisiana, Lafayette, LA, USA</p> <p>4:20 Modeling Coastal Vegetation Community Succession using the Everglades Landscape Vegetation Succession Model -- Leonard Pearlstine¹, Steve Friedman¹, Stephanie Romaniach², Tom Doyle³, Jimi Sadle¹, Sonali Saha⁶, Tom Smith², Don DeAngelis^{2,7}, Michael Turtora², Leon Sternberg⁷, Kristie Wendelberger⁸, Ronnie Best⁴, Eric Swain⁵; ¹Everglades National Park; National Park Service, Homestead, FL, USA, ²Southeast Ecological Science Center; U.S. Geological Survey, Gainesville, FL, USA, ³National Wetlands Research Center, U.S. Geological Survey, Lafayette, LA, USA, ⁴Greater Everglades Priority Ecosystems Science; U.S. Geological Survey, Davie, FL, USA, ⁵Florida Integrated Science Center; U.S. Geological Survey, Ft Lauderdale, FL, USA, ⁶The Institute for Regional Conservation, Miami, FL, USA, ⁷Department of Biology; University of Miami, Miami, FL, USA, ⁸Southeast Environmental Research Center; Florida International University, Miami, FL, USA</p> <p>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</p>	<p>Session #63: Graduate Student Research on Wetland Complexity in the Florida Coastal Everglades (Part 2 of 2)</p> <p>[Antigua 1 & 2]</p> <p>Moderator: Kristie Wendelberger, Florida International University, Miami, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Encountering Culture in Restoration: Understanding Cultural Tensions in the Florida Everglades and Beyond -- Rebecca I. Garvoille¹, Laura A. Ogden²; ¹PhD Candidate in Anthropology, Florida International University, Miami, FL, USA, ²Associate Professor, Florida International University, Miami, FL, USA</p> <p>4:00 Seasonality and Disturbance Events in the Carbon Isotope Record of <i>Pinus elliottii</i> Tree Rings from Big Pine Key, Florida -- Carrie E. Rebenack¹, William T. Anderson¹ and Paolo Cherubini²; ¹Florida International University, Southeast Environmental Research Center, Miami, FL, USA, ²WSL, Birmensdorf, Switzerland</p> <p>4:20 Biogeochemical Effects of Saltwater Intrusion and Increased Inundation on Everglades Peat Soil -- Lisa G. Chambers¹, Stephen E. Davis², Tiffany Troxler³, Joseph Boyer³, Alan Downey-Wall³, and Leonard Scinto³; ¹Soil and Water Science Department, University of Florida, Gainesville, FL, USA, ²Everglades Foundation, Palmetto Bay, FL, USA, ³Southeast Environmental Research Center, Florida International University, Miami, FL, USA</p> <p>4:40 Panel Discussion: Evelyn Gaiser</p>	<p>Session #64: Colonization of Wetland Habitat: Plant Dispersal and Establishment (Part 2 of 2)</p> <p>[Antigua 3 & 4]</p> <p>Moderator: Jos Verhoeven, Utrecht University, Utrecht, Netherlands</p> <p>3:30 Session Overview</p> <p>3:40 Urban Wetlands: Propagule Banks in Aquatic Wetland Ecosystems: Disturbances as a Key Process -- Gudrun BORNETTE¹, Wei Li², and Florent ARTHAUD¹; 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</p> <p>4:00 The Dynamics of Species-Rich Meadows on UK Floodplains -- D.J. Gowing, Open University, Milton Keynes, U.K</p> <p>4:20 Colonization and Succession in Restored Wet Grasslands: Lessons From Long-Term Experiments -- Norbert Hölzel, University of Münster, Germany</p> <p>4:40 Saltmarsh Ecosystem Restoration on Intertidal/Submerged Cap in an Urban System -- Joseph Shisler¹, Matthew Adkins², Jeff Beckner³ and Tim Iannuzzi⁴; ¹ARCADIS, Cranbury, NJ, USA, ²CSX Transportation, Inc. Lithia Springs, GA, USA, ³ARCADIS, Augusta, GA, USA, ⁴ARCADIS, Annapolis, MD, USA</p>

Tuesday, June 5, 2012 | 3:30pm – 5:00pm

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<p>Session #65: Mercury Fate, Transport & Bioaccumulation in Wetlands (Part 3 of 3) [Bonaire 1 & 2]</p> <p>Moderator: Paul Bradley, U.S. Geological Survey, Columbia, SC, USA</p> <p>3:30 Session Overview</p> <p>3:40 Modeling the Effects of Sulfate Loading and Methylmercury Production in the Everglades -- William Orem¹, David Krabbenhoft², Cindy Gilmour³, George Aiken⁴, Mark Schafer⁵ and G. Ronnie Best⁶; ¹U.S. Geological Survey, Reston, VA, USA, ²U.S. Geological Survey, Middleton, WI, USA, ³Smithsonian Environmental Research Center, Edgewater, MD, USA, ⁴U.S. Geological Survey, Boulder, CO, USA, ⁵U.S. Army Corps of Engineers, Jacksonville, FL, USA, ⁶U.S. Geological Survey, Ft. Lauderdale, FL, USA</p> <p>4:00 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 -- C. D. Knights¹, H.E. Golden², G. Davis¹, M.C. Barber¹, M.E. Brigham³, K.R. Murray¹, B.C. Eikenberry⁵, C.A. Journey⁶, P.A. Conrads⁶ and P.M. Bradley⁶; ¹US Environmental Protection Agency, Office of Research and Development, Ecosystems Research Division, Athens, GA, USA, ²US Environmental Protection Agency, Office of Research and Development, Ecological Exposure Research Division, Cincinnati, OH, USA, ³US Geological Survey, Mounds View, MN, USA, ⁴US Geological Survey, Troy, NY, USA, ⁵US Geological Survey, Middleton, WI, USA, ⁶US Geological Survey, South Carolina Water Science Center, Columbia, SC, USA</p> <p>4:20 Biogeochemical and Community Structural Controls on Mercury in Everglades Food Webs -- Peter Kalla¹, Joel Trexler², Curtis Pollman³, Jeannie Daniel⁴, Evelyn Gaiser² and Daniel Scheidt¹; ¹U.S. Environmental Protection Agency, Region 4, Athens, GA, USA, ²Florida International University, Miami, FL, USA, ³Aqua Lux Lucis, Inc., Gainesville, FL, USA, ⁴University of Georgia, Athens, GA, USA</p> <p>4:40 MERGANSER – An Empirical Model to Predict Fish and Loon Mercury in New England Lakes -- John M. Johnston¹, James B. Shanley², Richard Moore³, Richard A. Smith⁴, Eric K. Miller⁵, Alison Simcox⁶, Neil Kamman⁷, Diane Nacci⁸, Keith Robinson³, Melissa M. Hughes⁹, Craig Johnston³, David Evers¹⁰, Kate Williams¹⁰, John Graham¹¹, Susy King¹²; ¹US EPA National Exposure Research Laboratory, Ecosystems Research Division, Athens, GA, USA, ²US Geological Survey, Montpelier, VT, USA, ³US Geological Survey, Pembroke, NH, USA, ⁴US Geological Survey, MS Reston, VA, USA, Ecosystems Research Group, Ltd., Norwich, VT, USA, ⁵US EPA Region I, Boston, MA, USA, ⁶Vermont Department of Environmental Conservation, Waterbury, VT, USA, ⁷US EPA National Health and Environmental Effects Research Laboratory, USA, Atlantic Ecology Division, Narragansett, RI, USA, ⁸BioDiversity Research Institute, Gorham, ME, USA, ⁹Northeast States for Coordinated Air Use Management, Boston, MA, USA, ¹⁰New England Interstate Water Pollution Control Commission, Boott Mills, South, Lowell, MA, USA</p>	<p>Session #66: Linkages - Microbial Communities and Biogeochemistry (Part 2 of 2) [Bonaire 3 & 4]</p> <p>Moderator: Christopher Craft, Indiana University, Bloomington, IN, USA</p> <p>3:30 Session Overview</p> <p>3:40 The Effect of Saltwater Intrusion on Microbial Community Structure and Function in a Tidal Freshwater Marsh -- David J. Berrier¹, Rima B. Franklin¹, Joseph M. Battistelli² and Scott C. Neubauer³; ¹Virginia Commonwealth University, Department of Biology, Richmond, VA, USA, ²University of Virginia, Department of Environmental Science, Charlottesville, VA, USA, ³University of South Carolina, Baruch Marine Field Laboratory, Georgetown, SC, USA</p> <p>4:00 Linkages between Microbial Biomass and Litter Decomposition in Tidal Forested Wetlands -- Kathryn N. Pierfelice¹, B. Graeme Lockaby¹, Gregory B. Noe² and Ken W. Krauss³; ¹Auburn University, Auburn, AL, USA, ²U.S. Geological Survey, Reston, VA, USA, ³U.S. Geological Survey, Lafayette, LA, USA</p> <p>4:20 Temperature Sensitivity of Enzyme Activity at Depth in a Bog at Marcell Experimental Forest, MN, USA -- J. Megan Steinweg¹, Joel E. Kostka², Paul J. Hanson¹ and Chris W. Schadt^{1,3}; ¹Oak Ridge National Laboratory, Oak Ridge, TN, USA, ²Georgia Institute of Technology, Atlanta, GA, USA, ³University of Tennessee, Knoxville, TN, USA</p> <p>4:40 Linking Organic Matter Breakdown to Abundance and Community Composition of Denitrification and DNRA Microorganisms in Tidal Wetlands -- Ember M. Morrissey, Joseph C. Morina, Jaimie L. Gillespie and Rima B. Franklin; Biology, Virginia Commonwealth University, Richmond, VA, USA</p>	<p>Session #67: The Ecology of Livelihoods in Papyrus Wetlands: Interdisciplinary Approaches for Improved Governance (Part 3 of 3) [Bonaire 5 & 6]</p> <p>Moderator: Fred Zaal, KIT, Amsterdam, Netherlands</p> <p>3:30 Session Overview</p> <p>3:40 Wetland Policy Development in Rwanda: from Wetland Inventory to Legislation for Sustainable Use -- Paul Ouedraogo¹ and Rose Mukankomeje²; ¹Ramsar Convention, Gland, Switzerland, ²Rwanda Environment Management Authority, Kigali, Rwanda</p> <p>4:00 Overview of Results from the EU-WETwin Project with Special Reference to Ugandan Papyrus Wetlands -- István Zsuffa¹, Rose C. Kaggwa² and Anne A. van Dam³; ¹VITUKI Environmental and Water Management Research Institute Non-profit Ltd., Budapest, Hungary, ²National Water and Sewerage Corporation, Kampala, Uganda, ³UNESCO-IHE Institute for Water Education, Delft, the Netherlands</p> <p>4:20 Integration of Ecological, Hydrological and Socio-Economic Data into a Bayesian Network Model for the Sustainable Utilization of Papyrus Wetlands -- Julius Kipkemboi¹ and Anne A. van Dam²; ¹Egerton University, Njoro, Kenya, ²UNESCO-IHE Institute for Water Education, Delft, The Netherlands</p> <p>4:40 Session Summary and Conclusions – Fred Zaal</p>	<p>Session #68: Measurement of Greenhouse Gas Emissions from Wetlands (Part 3 of 3) [Bonaire 7 & 8]</p> <p>Moderator: Scott Neubauer, University of South Carolina, Georgetown, SC, USA</p> <p>3:30 Session Overview</p> <p>3:40 Quantifying Halocarbon Contributions to Greenhouse Gas Emissions from Coastal Wetland Soils -- Alex T. Chow, Jun-Jian Wang and William H. Conner; Baruch Institute of Coastal Ecology & Forest Science, Clemson University, Georgetown, SC, USA</p> <p>4:00 Mangrove Ecosystem Function and Response to Climate Change -- Jordan G. Barr¹, Vic Engel¹ and Jose D. Fuentes²; ¹Everglades National Park, Homestead, FL, USA, ²Pennsylvania State University, University Park, PA, USA</p> <p>4:20 Why Do Restored Temperate Peatlands Sequester So Much Carbon? Insights from Comparing CO₂ Fluxes Using Eddy Covariance, Static Chamber, and Leaf Exchange Approaches -- Lisamarie Windham-Myers, Frank Anderson and Brian Bergamaschi; ¹U.S. Geological Survey, National Research Program, Menlo Park, CA, USA, ²U.S. Geological Survey, California Water Science Center, Sacramento, CA, USA</p> <p>4:40 Rapid Assessment of Carbon Storage and Sequestration Capacity in U.S. Wetlands -- Eric T. Sundquist¹, Sara Greenberg¹, Norman Bliss², Kate Ackerman¹ and Alicia Perez³; ¹U.S. Geological Survey, Woods Hole, MA, USA, ²ASRC Research and Technology Solutions, Contractor to the U.S. Geological Survey EROS Center, Sioux Falls, SD, USA, ³Partnership in Education Program, Woods Hole, MA, USA</p>

Tuesday, June 5, 2012 | 3:30pm – 5:00pm

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<p>Session #69: Symposium on Wetland Delineation and Regionalization (Part 2 of 2) [Curacao 1 & 2]</p> <p>Moderator: Jacob Berkowitz, US Army Corps of Engineers, Vicksburg, MS, USA</p> <p>3:30 Session Overview</p> <p>3:40 A Complex Wetland Delineation Involving a Ditched Wetland in the Twin Cities, Minnesota, USA -- Steve D. Eggers, U.S. Army Corps of Engineers, St. Paul, MN, USA</p> <p>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. Tobin³; ¹Burns & McDonnell Engineering Company, Inc., Kansas City, Missouri, USA, ²United States Army Corps of Engineers, Omaha, Nebraska, USA, ³Metropolitan Utilities District, Omaha, Nebraska, USA</p> <p>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. Tobin³; ¹Burns & McDonnell Engineering Company, Inc., Kansas City, Missouri, USA, ²United States Army Corps of Engineers, Omaha, Nebraska, USA, ³Metropolitan Utilities District, Omaha, Nebraska, USA</p> <p>4:40 Panel Discussion</p>	<p>Session #70: Fire: Shaping Wetlands from Nutrients to Wildlife (Part 2 of 4) [Curacao 3 & 4]</p> <p>Moderator: Cassandra Medvedeff, University of Florida, Gainesville, USA</p> <p>3:30 Session Overview</p> <p>3:40 Smoldering Cypress Swamp Soils: Moisture Effects and Implications for Forest Structure -- Leda N. Kobziar¹, Adam C. Watts¹, Todd Z. Osborne¹ and James R. Snyder²; ¹University of Florida, Gainesville, FL, USA, ²U.S. Geological Survey, Ochopee, FL, USA</p> <p>4:00 Mass Mortality of Hardwood Shrubs after a Single Fire in Seasonally Flooded Prairie -- James R. Snyder¹ and William T. Hilton²; ¹U.S. Geological Survey, Ochopee, FL, USA, ²Jacobs Technology, Ochopee, FL, USA</p> <p>4:20 Tracking Everglades Fire Scar Vegetation Recovery Through Archival Landsat Image Interpretation -- John W. Jones¹, Annette E. Hall¹, Thomas J. Smith² and Ann M. Foster³; ¹U.S. Geological Survey, Reston VA, USA, ²U.S. Geological Survey, St Petersburg, FL, USA, ³U.S. Geological Survey, Gainesville, FL, USA</p> <p>4:40 Effects of Fire on River Cane (<i>Arundinaria gigantea</i>) in a Bottomland Hardwood Forest Four Years After Burning -- Paul R. Gagnon and Heather A. Passmore; ¹Murray State University, Murray, KY, USA</p>	<p>Session #71: Mapping and Monitoring Large Wetland Systems and Biophysical Properties with Earth Observation Satellite Imagery (Part 2 of 2) [Curacao 5 & 6]</p> <p>Moderators: Maycira Costa, University of Victoria, Victoria, Canada and Lisa-Maria Rebelo, International Water Management Institute, Addis Ababa, Ethiopia</p> <p>3:30 Session Overview</p> <p>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</p> <p>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-Filho¹, Christophe Proisy² and Richard M. Lucas³; ¹Laboratório de Análise of images do Trópico Úmido, Instituto de Geociências, Universidade Federal do Pará, Cidade Universitária 1, Belém, Pará, Brazil, ²Institut de Recherche pour le Développement (IRD), UMR AMAP, Montpellier Cedex 5, France, ³Institute of Geography and Earth Sciences, Aberystwyth University, Aberystwyth, Ceredigion, UK</p> <p>4:20 Maps of Canopy Height and Biomass of All Mangrove Forests of the Americas -- Marc Simard¹, Naiara Pinto², Lola Fatoyinbo³, Victor H. Rivera-Monroy⁴, Chandra Giri⁵ and Rinku Roy Chowdhury⁶; ¹California Institute of Technology/Jet Propulsion Laboratory, Pasadena, California, USA, ²Department of Geography, University of Maryland, Greenbelt, Maryland, USA, ³Biospheric Science Lab, NASA Goddard Space Flight Center, Greenbelt, Maryland, USA, ⁴Louisiana State University, Baton Rouge, Louisiana, USA, ⁵United States Geological Survey (USGS), Earth Resources Observation and Science (EROS) Center, Sioux Falls, USA, ⁶Department of Geography, Indiana University, Bloomington, Indiana, USA</p> <p>4:40 Development of a New High-Resolution Global Inundation Map -- Etienne Fluet-Chouinard and Bernhard Lehner; Department of Geography, McGill University, Montreal, Canada</p>	<p>Session #72: The Unique and Complex Relationships Between Natural Wetland and Upland Habitats and Phosphate Mining (Part 2 of 2) [Curacao 7 & 8]</p> <p>Moderator: Kym Rouse Campbell, ENVIRON International Corp., Tampa, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Using Reclaimed Phosphate Lands for Water Treatment and Aquifer Recharge -- Adam E. Platt, P. E¹ and Stefan N. Katzaras²; ¹CF Industries, Inc., Bowling Green, FL, USA, ²CF Industries, Inc., Plant City, FL, USA</p> <p>4:00 Mosaic Fertilizer's Wellfield: Habitat Restoration, Conservation and Growing the Florida Scrub Jay -- Sandra L. Patrick¹, Reed Bowman², David Gordon³, Lauren Deaner³ and Grant Lykins⁴; ¹Mosaic Fertilizer, LLC, Lithia, FL, USA, ²Archbold Biological Station, Venus, FL, USA, ³Quest Ecology, Wimauma, FL, USA, ⁴Mosaic Fertilizer, LLC, Lithia, FL, USA</p> <p>4:20 A Demonstration of an Ecosystem Services Valuation Methodology for Reclaimed Phosphate Mined Lands -- Kym Rouse Campbell¹ and Joseph Nicolette²; ¹ENVIRON International Corporation, Tampa, FL, USA, ²ENVIRON International Corporation, Atlanta, GA, USA</p> <p>4:40 Discussion</p>

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<p>Session #73: Wetlands Governance and Legal Framework (40) [Grand Sierra Ballroom B] Moderators: Stanley Liphadzi, Water Research Commission, Gezina, South Africa and Harrison Pienaar, CSIR, Pretoria, South Africa</p> <p>10:30 Session Overview</p> <p>10:40 Wetlands Governance: Aligning Legal Doctrine with Biological Diversity -- D.E. Fisher; Faculty of Law, Queensland University of Technology, Brisbane, Queensland, Australia</p> <p>11:00 County-based Governance of Participatory Restoration and Survey for Wetlands in Taiwan -- Chia-Hong Hong¹, Terrence Lee¹ and Wei-Ta Fang³; ¹Urban and Rural Development Branch, Construction and Planning Agency, Ministry of the Interior, Republic of China (Taiwan), ²SWS Asia Chapter; Taiwan Wetland Society, Republic of China (Taiwan)</p> <p>11:20 Equitable Water Rights: A Holistic Perspective on Eco-cultural Restoration to Sustain Biodiversity, Ecosystem Functions and Social Justice in the Tigris Euphrates Watershed -- Michelle L. Stevens; California State University California and Hima Mesopotamia Non-Profit Corporation, Sacramento, CA, USA</p> <p>11:40 Moving beyond Legal Compliance to Self Control: Change Orientated Learning for Wetland Sustainability Practices -- David Lindley; Wildlife & Environment Society of South Africa, Pretoria, Gauteng, South Africa</p>	<p>Session #74: Everglades Nutrients and Water Quality [Grand Sierra Ballroom C] Moderator: John White, Louisiana State University, Baton Rouge, LA, USA</p> <p>10:30 Session Overview</p> <p>10:40 Restoring Ecosystem Function in the P-Enriched Everglades: Creating an Alternate Regime -- Susan Newman¹, Scot E. Hagerthey² and Mark I. Cook¹; ¹South Florida Water Management District, West Palm Beach, FL, USA, ²U.S. Environmental Protection Agency, Arlington, VA, USA</p> <p>11:00 Processes and Dynamics of Ecosystem Recovery in Nutrient-Enriched Everglades after Phosphorus Load Reduction -- ShiLi Miao¹ and Cassondra R Thomas²; ¹South Florida Water Management District, West Palm Beach, FL, USA, ²Cardno ENTRIX, West Palm Beach, FL, USA</p> <p>11:20 Cyanobacteria Species from Florida Everglades Floc -- Barry H. Rosen¹, Jaroslava Komárková² and Jiří Komárek³; ¹U.S. Geological Survey, Orlando, FL, USA, ²Hydrobiological Institute, Academy of Science, Třeboň, Czech Republic, ³Institute of Botany, Academy of Science, Třeboň, Czech Republic</p> <p>11:40 Total Phosphorus Calibration of the Simple Refuge Screening Model Version 4 Using Optimization -- Michael G. Waldon¹, Chunfang Chen², Ehab A. Meselhe²; ¹A.R.M. Loxahatchee NWR, Boynton Beach, FL, USA, ²University of Louisiana-Lafayette, USA</p>	<p>Session #75: Habitat Management and Ecological Research in the Northern Everglades [Antigua 1 & 2] Moderator: Rebekah Gobble, A.R.M. Loxahatchee NWR, Boynton Beach, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 The Integration of Science and Fire Management at the Loxahatchee National Wildlife Refuge -- Jon Wallace; U.S. Fish & Wildlife Service, Boynton Beach, FL, USA</p> <p>11:00 Invasive Plant Management Strategies: Integrating Science and Monitoring -- Lisa A. Jameson, Rebekah E. Gobble and Christen A. Mason; U.S. Fish & Wildlife Service, Boynton Beach, FL, USA</p> <p>11:20 Integrating Current Research into Management Decisions at the Arthur R. Marshall Loxahatchee National Wildlife Refuge -- Marcie A.D. Kapsch and Rebekah Gobble; U.S. Fish & Wildlife Service, Boynton Beach, FL, USA</p> <p>11:40 Trends in Alligator Body Condition in Relation to Hydrology in Arthur R. Marshall Loxahatchee National Wildlife Refuge, Florida USA -- Laura A. Brandt¹ and Frank J. Mazzotti²; ¹U.S. Fish and Wildlife Service, Davie, FL, USA, ²Department of Wildlife Ecology and Conservation, University of Florida, Davie, FL, USA</p>	<p>Session #76: Connectivity of Wetland Networks in the Landscape [Antigua 3 & 4] Moderators: James Jawitz, University of Florida, Gainesville, FL, USA and Matthew Cohen, University of Florida, Gainesville, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Hydro-Biogeochemical and Environmental-Management Functions of Wetland Networks in Landscapes -- Georgia Destouni^{1,2}, Nandita Basu³, Matthew J. Cohen⁴, Helen Dahlke¹, Fernando Jaramillo¹, Jerker Jarsjö¹, James W. Jawitz⁴, John Juston⁵, Elin M. Karlsson⁶, Antonis D. Koussis⁷, Steve Lyon^{1,2}, Katerina Mazi^{1,2,7}, Johanna Mård-Karlsson¹, Carmen Prieto^{1,2}, Suresh C. Rao⁶, Ype van der Velde¹, Nikki Vercauteren¹; ¹Stockholm University, Stockholm, Sweden, ²Navarino Environmental Observatory (NEO), Messina, Greece, ³University of Iowa, Iowa City, Iowa, USA, ⁴University of Florida, Gainesville, Florida, USA, ⁵Royal Institute of Technology, Stockholm, Sweden, ⁶Purdue University, West Lafayette, Indiana, USA, ⁷National Observatory of Athens, Athens, Greece</p> <p>11:00 Towards an Index of Hydrological Integrity for Wetland Dominated Landscapes -- Irena F. Creed¹, Suzanne Bayley², Adam Spargo¹, David Aldred¹; ¹University of Western Ontario, London, ON, Canada, ²University of Alberta, Edmonton, ON, Canada</p> <p>11:20 The Role of Wetland in Regulating the Hydrology and Biogeochemical Cycling in Headwater Watersheds, Southeastern United States -- Ge Sun¹, Zhaohua Dai² and Devendra M. Amatya³; ¹U.S. Forest Service, Raleigh, NC, USA, ²University of New Hampshire, Durham, NH, USA, ³U.S. Forest Service, Cordeville, SC, USA</p> <p>11:40 Hydrologic Connectivity of Drained Wetlands in Iowa's Prairie Pothole Landscape -- Nandita B. Basu and Kevin Stunkel; University of Iowa, USA</p>

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<p>Session #77: Role of Best Management Practices in Non-point Source Pollution Control and Wetland Protection</p> <p>[Bonaire 1 & 2]</p> <p>Moderator: Samira Daroub, University of Florida, Belle Glade, FL, USA</p> <p>10:30 Session Overview</p> <p>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</p> <p>11:00 Improving the Effectiveness of BMPs in the Everglades Agricultural Area -- Timothy A. Lang, Samira H. Daroub, Jehanghir Bhadha and Manohardeep Josan; University of Florida/IFAS, Everglades Research and Education Center, Belle Glade, FL, USA</p> <p>11:20 Selection of Soil Test Phosphorus Extractant and Index for Calcareous Soils -- Kelly T. Morgan and Kamal Mahmoud; University of Florida, Immokalee, FL, USA</p> <p>11:40 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-Andre Jacinthe¹, Meghna Babbar-Sebens¹; ¹Indiana University-Purdue University Indianapolis, Indianapolis, IN, USA, ²The Wetlands Institute, Stone Harbor, NJ, USA</p>	<p>Session #78: Biogenic Gas Emissions from Peatlands: The Importance of Tropical and Sub-tropical Ecosystems (Part 1 of 3)</p> <p>[Bonaire 3 & 4]</p> <p>Moderator: Xavier Comas, Florida Atlantic University, Davie, USA</p> <p>10:30 Session Overview</p> <p>10:40 Carbon Budget Estimation from Everglades Tree Islands: Balancing Soil Accretion and CO₂ Efflux -- Leonard J. Scinto^{1,2}, Robert Schroeder^{1,2}, Alexandra Serna^{1,2}, 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</p> <p>11:00 Carbon Fluxes at a Sub-tropical Peat Marsh in Florida -- David M. Sumner¹, C. Ross Hinkle², Jiahong Li³ and Angelique Bochnak⁴; ¹U.S. Geological Survey, Orlando, FL, USA, ²University of Central Florida, Orlando, FL, USA, ³Licor Corporation, Lincoln, NE, USA, ⁴St. Johns River Water Management District, Palatka, FL, USA</p> <p>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</p> <p>11:40 Spatio-temporal Distribution of Air-water CO₂ Exchange in Doñana Wetlands (Spain) -- S. Flecha¹, Edward P. Morris¹, Jordi Figuerola², Eduardo Costas³, Gabriel Navarro¹, Pablo Rodriguez⁴, and I. Emma Huertas¹; 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</p>	<p>Session #79: Symposium on Plant Ecophysiology in Wetlands</p> <p>[Bonaire 5 & 6]</p> <p>Moderators: Pia Parolin, University of Hamburg, Hamburg, Germany and Catia Nunes da Cunha, UFMT, Cuiabá, Brazil</p> <p>10:30 Session Overview</p> <p>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</p> <p>11:00 Plant Community Composition and Biogeochemistry of Clear and Turbid Shallow Lakes -- La Toya T. Kisson¹, Donna L. Jacob¹, Mark A. Hanson², Brian R. Herwig², Shane E. Bowe³ and Marinus L. Otte¹; 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</p> <p>11:20 Plant Species Response to the Restoration of Degraded Fens in North-West Wales -- Nina M. Menichino; Bangor University, Wales, UK</p> <p>11:40 Plant Ecophysiology in Tropical Freshwater Wetlands on Three Continents -- Pia Parolin¹ and Cátia Nunes da Cunha²; ¹University of Hamburg, Germany, ²INAU Cuiabá, Brazil</p>	<p>Session #80: Self-organized Landscapes: Tree Islands (Part 1 of 3)</p> <p>[Bonaire 7 & 8]</p> <p>Moderator: Victor Engel, Everglades National Park, Homestead, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Tree Islands: Landforms and Underlying Biotic Feedbacks -- Paolo D'Odorico¹, Vic Engel², Joel A. Carr¹ and Matthew Baddock²; ¹University of Virginia, Charlottesville, VA, USA, ²Everglades National Park, Homestead, FL, USA</p> <p>11:00 Transpiration as a Hydrologic Driver of Ion and Mineral Accumulation on Tree Islands -- Pamela L. Sullivan¹, René M. Price^{1,2}, Vic Engel³, Michael S. Ross^{1,2}; 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</p> <p>11:20 Autogenous Development of Habitat Heterogeneity in the Okavango Delta, Northern Botswana -- Terence S McCarthy¹ and William N Ellery²; ¹University of the Witwatersrand, Johannesburg, South Africa, ²Rhodes University, Grahamstown, South Africa</p> <p>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</p>

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<p>Session #81: Sediment Elevation Table (SET): Salt Marsh Monitoring - Implementation, Use and Results [Curacao 1 & 2]</p> <p>Moderators: Alice Benzecry, Fairleigh Dickinson University, Teaneck, NJ, USA and Ellen Kracauer Hartig, NYC Parks, New York, NY, USA</p> <p>10:30 Session Overview</p> <p>10:40 An Approach for Estimating Salt Marsh Resilience to Sea-Level Rise -- Donald R. Cahoon¹, U.S. Geological Survey, Patuxent Wildlife Research Center, Beltsville, MD, USA</p> <p>11:00 Measuring Marsh Surface Elevation Change: Patterns and Processes, Trends and Timing -- Denise J. Reed, University of New Orleans, New Orleans LA, USA</p> <p>11:20 Development of Sampling Protocols for the Surface Elevation Table -- James C. Lynch¹, Donald R. Cahoon², and Philippe Hensel³; ¹U.S. National Park Service, Northeast Coastal and Barrier Network, Washington, DC, USA, ²U.S. Geological Survey, Patuxent Wildlife Research Center, Laurel, MD, USA, ³NOAA, National Geodetic Survey, Silver Spring, MD, USA</p> <p>11:40 Getting the Most from Surface Elevation Table-Marker Horizon Installations Panelists: Alice Benzecry, Leah Beckett, Donald Cahoon, Ellen Kracauer Hartig, Danielle Kreeger, James Lynch, Beth Middleton, Denise Reed, and Charles Roman</p>	<p>Session #82: Fire: Shaping Wetlands from Nutrients to Wildlife (Part 3 of 4) [Curacao 3 & 4]</p> <p>Moderator: Louise Venne, University of Florida, Gainesville, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Can Shrub Removal or Fire Restore Amphibian Habitat in Fire-Suppressed Pine Flatwoods Wetlands? -- Thomas A. Gorman¹, Carola A. Haas¹ and John G. Himes²; ¹Department of Fish and Wildlife Conservation, Virginia Tech, Blacksburg, Virginia, USA, ²Florida Fish and Wildlife Conservation Commission, Panama City, Florida, USA</p> <p>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</p> <p>11:20 Patterns in Fire - The Recorded History of Fire in Everglades National Park and Big Cypress National Preserve -- Ann M. Foster¹, Thomas J. Smith III² and Ursula Ankarstrom-Bohm³; ¹U.S. Geological Survey, Southeast Ecological Science Center, Gainesville, FL, USA, ²U.S. Geological Survey, Southeast Ecological Science Center, St. Petersburg, FL, USA, ³Jacobs Technology, Inc., Gainesville, FL, USA</p> <p>11:40 Mapping and Assessing Tree Island Fire Damage & Recovery within the Short-Hydroperiod Marl Prairie Grasslands of the Everglades -- Pablo L Ruiz¹, Adam A Spitzig¹, Jay P Sah¹, Michael S Ross^{1,2}; ¹Southeast Environmental Research Center, Florida International University, Miami, FL, USA, ²Department of Earth & Environment, Florida International University, Miami, FL, USA</p>	<p>Session #83: Advanced Remote Sensing I: Wetland Mapping (Part 1 of 3) [Curacao 5 & 6]</p> <p>Moderator: John Jones, USGS, Reston, VA, USA</p> <p>10:30 Session Overview</p> <p>10:40 Mapping Coastal Great Lakes Wetlands and Adjacent Land Use through Hybrid Optical-infrared and Radar Image Classification Techniques -- Laura L. Bourgeau-Chavez, Kirk Scarbrough, Mary Ellen Miller, Elizabeth Banda, Michael Battaglia, Anthony Landon, Richard Powell and Colin Brooks; Michigan Tech Research Institute, Ann Arbor, MI, USA</p> <p>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</p> <p>11:20 Evaluation of Worldview-2 and Landsat Data to Differentiate and Map Freshwater Marsh Plant Communities at Different Spatial Scales for Two Everglades Landscapes -- Daniel Gann¹, Jennifer Richards² and Andrew Gottlieb³; ¹GIS-RS Center, Florida International University, Miami, FL, USA, ²Department of Biological Sciences, Florida International University, Miami, FL, USA, ³Atkins, Jacksonville, FL, USA</p> <p>11:40 LiDAR Intensity and Elevation Data to Infer Forested Wetland Extent and Function -- Megan W. Lang¹, Robert A. Oesterling², Greg W. McCarty³, Daniel E. Fenstermacher⁴ and Owen T. McDonough⁵; ¹U.S. Department of Agriculture Forest Service, Beltsville, MD, USA, ²University of Maryland Department of Geography, College Park, MD, USA, ³U.S. Department of Agriculture Agricultural Research Service, Beltsville, MD, USA, ⁴University of Maryland Department of Geography, College Park, MD, USA, ⁵University of Maryland Center for Environmental Science, Solomons, MD, USA</p>	<p>Session #84: Large Scale Ecosystems: Planning, Policy and Assessment [Curacao 7 & 8]</p> <p>Moderator: Dave Tipple, USACE, Jacksonville, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Forecasting in Large Scale Restoration Planning -- Jeff Trulick, U.S. Army Corps of Engineers, Washington DC, USA</p> <p>11:00 Governmental Laws, Rules and Policies, Are They Keeping Up With Restoration Objectives -- Kenneth G. Ammon; WRScompass, West Palm Beach, FL, USA</p> <p>11:20 Supporting Gulf of Mexico Restoration: Issues, Challenges, and Solutions Identified by the Gulf Coast Ecosystem Restoration Task Force Science Coordination Team -- Alyssa Dausman¹, Shelby Walker² and Dawn Lavoie³; ¹USGS, Stennis Space Center, MS, USA, ²NOAA, USA, ³USGS, USA</p> <p>11:40 Habitat Monitoring and Assessment in Large Wetland Systems -- Craig T. Mallison¹ and Boyd Z. Thompson²; ¹Florida Fish and Wildlife Conservation Commission, Lakeland, Florida, USA, ²Florida Fish and Wildlife Conservation Commission, Eustis, Florida, USA</p>

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<p>Session #85: Governing Across Boundaries: Learning from Experience (Panel 1) [Grand Sierra Ballroom B]</p> <p>Moderator: Lynn Scarlet, Resources for the Future, Arlington, VA, USA</p> <p>1:30 Session Overview</p> <p>1:40 – 3:00 Panelists: Shannon Estenoz, Roy Stein, and John Hankinson</p> <p>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, multiissue coordination and management? Who participates? How are decisions made? How are actions coordinated?</p>	<p>Session #86: The SWSPC CODE OF ETHICS: Code Compliance as a Working Professional (Part 1 of 2) [Grand Sierra Ballroom C]</p> <p>Moderator: James Perry, VIMS/The College of William & Mary, Gloucester Point, VA, USA</p> <p>1:30 Session Overview</p> <p>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</p> <p>2:30 – 3:00 Trainer Introduced Case Studies and Audience Interaction</p>	<p>Session #87: Climatic Events, Climate & Sea Level Rise [Antigua 1 & 2]</p> <p>Moderator: Robert Johnson, Department of the Interior, Homestead, FL, USA</p> <p>1:30 Session Overview</p> <p>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 Jensen¹; ¹Hamburg University, Hamburg, Germany, ²University of Maryland, College Park, MD, USA</p> <p>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. Day³; ¹United States Geological Survey, Baton Rouge, Louisiana, USA, ²University of Louisiana, Lafayette, USA, ³United States Geological Survey, Lafayette, Louisiana, USA</p> <p>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. Frezza and Michelle Robinson, Audubon of Florida, Tavernier, FL, USA</p> <p>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</p>	<p>Session #88: Wetland Hydrology: Criterion and Assessment (Part 1 of 2) [Antigua 3 & 4]</p> <p>Moderator: Chris Noble, US Army Corps of Engineers, Vicksburg, MS, USA</p> <p>1:30 Session Overview</p> <p>1:40 Methods of Interpreting Hydrology Data -- Chris Noble, USACE, Vicksburg, MS USA</p> <p>2:00 Criterion for Wetland Hydrology: Effects of Growing Season and Saturation Duration -- R. Wayne Skaggs, North Carolina State University, Raleigh, NC, USA</p> <p>2:20 Hydrologic Criterion of Hydric Soils -- Michael J. Vepraskas, North Carolina State University, Raleigh, NC, USA</p> <p>2:40 Relating Hydrology to Wetland Plant Community Distribution -- Peter V. Caldwell¹, Michael J. Vepraskas², James D. Gregory², R. Wayne Skaggs² and Rodney L. Huffman²; ¹USDA Forest Service, Raleigh, NC, USA, ²North Carolina State University, Raleigh, NC, USA</p>

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<p>Session #89: Invasive Plants-Phragmites [Bonaire 1 & 2]</p> <p>Moderator: Doug Wilcox, The College at Brockport, State University of New York, Brockport, NY, USA</p> <p>1:30 Session Overview</p> <p>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</p> <p>2:00 Predicting <i>Phragmites</i> Expansion in the Laurentian Great Lakes -- Martha L. Carlson Mazur¹, Kurt P. Kowalski¹, David M. Galbraith¹, Laura L. Bourgeau-Chavez², Liza Jenkins² and Colin Brooks²; ¹U.S. Geological Survey, Ann Arbor, MI, USA, ²Michigan Tech Research Institute, Ann Arbor, MI, USA</p> <p>2:20 Phytotoxicity of Secondary Metabolites Produced by <i>Phragmites australis</i> in South-eastern Australia -- Md. Nazim Uddin, Domenic Caridi and Randall W. Robinson; Ecology and Sustainability Group, School of Engineering & Science, Victoria University, Melbourne, Victoria, Australia</p> <p>2:40 Did <i>Phragmites australis</i> 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</p>	<p>Session #90: Biogenic Gas Emissions from Peatlands: The Importance of Tropical and Sub-tropical Ecosystems (Part 2 of 3) [Bonaire 3 & 4]</p> <p>Moderator: Victor Engel, Everglades National Park, Homestead, FL, USA</p> <p>1:30 Session Overview</p> <p>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</p> <p>2:00 Methane Emissions through Trees in Tropical and Temperate Forested Wetlands -- Sunitha R. Pangala¹, Vincent Gauci¹, Edward R.C. Hornibrook² and David J. Gowing¹; ¹The Open University, Milton Keynes, UK, ²University of Bristol, Bristol, UK</p> <p>2:20 Lattice Boltzmann Simulation of Gas Bubble Dynamics in Peat -- Michael C. Sukop¹, Seckin Gokaltun¹, Andrew J. Pearson¹, Xavier Comas² and Nicholas Kettridge³; ¹Florida International University, Miami, FL, USA, ²Florida Atlantic University, Boca Raton, FL, USA, ³University of Birmingham, Birmingham, UK</p> <p>2:40 Using Hydrogeophysical Methods to Constrain Spatial and Temporal Dynamics of Biogenic Gas Distribution and Fluxes in Peat Soils of the Everglades -- Xavier Comas¹, William Wright¹ and Anastasija Cabolova²; ¹Department of Geosciences, Florida Atlantic University, Boca Raton, FL, USA, ²Department of Physics, Florida Atlantic University, Boca Raton, FL, USA</p>	<p>Session #91: Wetland Restoration [Bonaire 5 & 6]</p> <p>Moderator: Susan Galatowitsch, University of Minnesota, Saint Paul, MN, USA</p> <p>1:30 Session Overview</p> <p>1:40 Wetland Restoration and Monitoring in the Southwest -- Ondrea Hummel; U.S. Army Corps of Engineers, Albuquerque District, Albuquerque, NM, USA</p> <p>2:00 Northern Prairie Wetland Assessment at Multiple Spatial Scales -- Suzanne Bayley¹, Irena Creed², Matt Wilson¹, Rebecca Rooney¹; ¹Department of Biology, Western University, London, Canada, ²University of Alberta, Edmonton, Canada</p> <p>2:20 Sustainability of Long-Term Monitoring for Large Scale Ecosystem Restoration -- Gretchen Ehlinger¹, Eliza Hines², Tom St Clair², Dave Tipple¹; ¹U.S. Army Corps of Engineers, Jacksonville District, Jacksonville, FL, USA, ²Atkins Global, Jacksonville, FL, USA</p> <p>2:40 Restoring Ecosystem Function in the P-Enriched Everglades: Improving Habitat for Wildlife -- Mark I. Cook¹, Susan Newman¹, Scot E. Hagerthey² and R. Mac Kobza³; ¹South Florida Water Management District, West Palm Beach, FL, USA, ²U.S. Environmental Protection Agency, Arlington, VA, USA, ³Boulder County Parks and Open Space, Longmont, CO, USA</p>	<p>Session #92: Self-organized Landscapes: Freshwater Peatlands (Part 2 of 3) [Bonaire 7 & 8]</p> <p>Moderator: Mike Ross, FIU, Miami, FL, USA</p> <p>1:30 Session Overview</p> <p>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</p> <p>2:00 Exogenous and Endogenous Controls Impact Evolution and Resilience of Wetland Vegetation Patterns -- Yiwei Cheng¹, Marc Stieglitz^{1,2}, Greg Turk³, Joshua Ross¹ and Victor Engel⁴; ¹School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA, USA, ²School of Earth Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA, USA, ³School of Interactive Computing, Georgia Institute of Technology, Atlanta, GA, USA, ⁴South Florida Natural Resources Center, Everglades National Park, Homestead, Florida, USA</p> <p>2:20 Sediment Redistribution and Accretion Feedbacks: Drivers of Landscape Pattern, Process, and Restoration Potential in Wetlands Worldwide -- Laurel G. Larsen and Judson W. Harvey; U.S. Geological Survey, Reston, VA, USA</p> <p>2:40 Discharge Competence as a Mechanism for Peatland Pattern Formation -- James B. Heffernan^{1,2*}, Danielle L. Watts³, Matthew J. Cohen⁴; ¹Department of Biological Sciences, Florida International University, Miami, FL, USA, ²Southeast Environmental Research Center, Florida International University, Miami, FL, USA, ³School of Natural Resources and Environment, University of Florida, Gainesville, FL, USA, ⁴School of Forest Resources and Conservation, University of Florida, Gainesville, FL, USA</p>

93	94	95	96
<p>Session #93: Wetland Fauna [Curacao 1 & 2]</p> <p>Moderator: Colleen Charles, USGS, Reston, VA, USA</p> <p>1:30 Session Overview</p> <p>1:40 Using Qualitative Frameworks and Quantitative Tools to Optimize Shorebird Habitat at Cabo Rojo Wildlife Refuge, Puerto Rico -- Louise B. Alexander¹, Christina A. Drew¹ 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</p> <p>2:00 Seasonal Hydrology Drives Predator and Prey Co-occurrence along a Marsh-Mangrove Ecotone: Implications across Ecological Scales -- Jennifer S. Rehage, Earth & Environment Department, Southeast Environmental Research Center, Florida International University, Miami, FL, USA</p> <p>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</p> <p>2:40 Considering Climate Change in State Wildlife Action Planning for Florida -- Michael Flaxman¹, Juan Carlos Vargas Moreno² and Steve Traxler³; ¹Massachusetts Institute of Technology, Cambridge, MA, USA, ²GeoAdaptive LLC, Cambridge, MA, USA, ³U.S. Fish & Wildlife Service, Vero Beach, FL, USA</p>	<p>Session #94: Fire: Shaping Wetlands from Nutrients to Wildlife (Part 4 of 4) [Curacao 3 & 4]</p> <p>Moderator: Todd Osborne, University of Florida, Gainesville, FL, USA</p> <p>1:30 Session Overview</p> <p>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. Jones⁴; 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</p> <p>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</p> <p>2:20 A Transitional Fire Model for Restoration and Management of Natural South Florida Plant Communities -- Richard Roberts¹, Michael Duever², and Jean McCollom³; ¹Florida Department of Environmental Protection (retired), Hobe Sound, FL, USA, ²Natural Ecosystems, Naples, FL, USA, ³Florida Fish and Wildlife Conservation Commission, Felda, FL, USA</p> <p>2:40 The River of Fire: Fire Management in the Modern Everglades -- Rick Anderson, National Park Service, Homestead, Florida, USA</p>	<p>Session #95: Advanced Remote Sensing II: RADAR for Water & Biomass (Part 2 of 3) [Curacao 5 & 6]</p> <p>Moderator: John Jones, USGS, Reston, VA, USA</p> <p>1:30 Session Overview</p> <p>1:40 Suitability of the New Generation of SAR Satellites to the Wetland InSAR Application -- Shimon Wdowinski¹, Sang-Hoon Hong² and Brian Brisco³; ¹University of Miami, Miami, FL, USA, ²Korea Aerospace Research Institute, Daejeon, Republic of Korea, ³Canada Centre for Remote Sensing, Ottawa, Canada</p> <p>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 Kim¹ 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</p> <p>2:20 Integrated Analysis of Interferometric SAR, Satellite Altimetry and Hydraulic Modeling to Quantify Louisiana Wetland Dynamics -- Hyongki Lee¹, Jin-woo Kim², Zhong Lu³, Hahn Chul Jung⁴, C.K. Shum² and Doug Alsdorf²; ¹Department of Civil and Environmental Engineering, University of Houston, Houston, TX, USA, ²School of Earth Sciences, Ohio State University, Columbus, OH, USA, ³US Geological Survey, Vancouver, WA, USA, ⁴Hydrological Sciences, NASA GSFC, Greenbelt, MD, USA</p> <p>2:40 Biomass Estimation in the Everglades Using Synthetic Aperture Radar and Ground-based LiDAR -- Emanuelle A. Feliciano¹, Shimon Wdowinski¹ and Matthew D. Potts²; ¹University of Miami, Miami, FL, USA, ²University of California, Berkeley, CA, USA</p>	<p>Session #96: Emerging Issues in Wetland Restoration in the Peoples Republic of China (Part 1 of 2) [Curacao 7 & 8]</p> <p>Moderator: Kevin Erwin, Kevin Erwin Consulting Ecologist, Inc., Fort Myers, FL, USA</p> <p>1:30 Session Overview</p> <p>1:40 Restoration of Sand Mined Wetlands in the Wild Duck Lake Natural Reserve, Beijing: Approaches and Evaluation -- Manyin Zhang¹, Lijuan Cui¹, Yifei Wang¹, Xinsheng Zhao¹ and Kevin L. Erwin²; ¹Wetland Research Institute, Chinese Academy of Forestry, Beijing China, ²Kevin Erwin Consulting Ecologist, Inc., Fort Myers, Florida, USA</p> <p>2:00 The Littoral Zone of the Three Gorges Reservoir: Challenges and Opportunities -- Xingzhong Yuan^{1,2}, Hong Liu¹, Rong Sun¹, Qiang Wang¹ and Bo Li¹; ¹College of Resources and Environmental Science, Chongqing University, Chongqing, China, ²Key Laboratory for Exploitation of Southwestern Resources and Environmental Disaster Control Engineering, Ministry of Education, Chongqing University, Chongqing, China</p> <p>2:20 A Summary of Existing Wetland Research on the Three Gorges Reservoir Area -- Xingzhong Yuan¹, Qiang Wang¹, Kevin L. Erwin³, Ruoxi Li³ and Yuechen Li⁴; ¹College of Resources and Environmental Science, Chongqing University, Chongqing, China, ²Kevin Erwin Consulting Ecologist, Inc., Fort Myers, Florida, USA, ³Chongqing Normal University, Chongqing, China, ⁴Journal of Chongqing Normal University, Chongqing, China</p> <p>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 Wang^{1,2}, Xingzhong Yuan^{1,2}, Hong Liu¹, J.H. Martin Willison³, Yuewei Zhang^{1,2}, Zhongli Chen⁴ and Bo Li^{1,2}; 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, ³School for Resource and Environmental Studies, Dalhousie University, Halifax, Nova Scotia, Canada, ⁴Institute for Environmental Research (Biology V), RWTH Aachen University, Aachen, Germany</p>

Wednesday, June 6, 2012 3:30pm – 5:00pm			
97	98	99	100
<p>Session #97: Coastal Sustainability: Structures and Processes for Linking Science and Decision Making (Panel 2)</p> <p>[Grand Sierra Ballroom B]</p> <p>Moderator: Lynn Scarlet, Resources for the Future, Arlington, VA, USA</p> <p>3:30 Session Overview</p> <p>3:40 – 5:00 Panelists: Charles Curtin, Rachel Jacobson and John Ogden</p> <p>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.</p>	<p>Session #98: The SWSPCP CODE OF ETHICS: Code Compliance as a Working Professional (Part 2 of 2)</p> <p>[Grand Sierra Ballroom C]</p> <p>Moderator: James Perry, VIMS/The College of William & Mary, Gloucester Point, VA, USA</p> <p>3:30 – 3:45 Trainer (Royal Gardner) and Moderator Reconvene Training Session</p> <p>3:45 – 5:00 Additional Case Studies and Audience Participation - Session will Close with Audience Question/Answer Forum</p>	<p>Session #99: Wildlife, Exotics & Restoration</p> <p>[Antigua 1 & 2]</p> <p>Moderator: Patrick Pitts, U.S. Fish & Wildlife Service, Vero Beach, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Assessing Woodstork Abundance and Alligator Nesting Trends in Everglades National Park using Generalized Additive Modeling - Dilip Shinde, Mario Alvarado, Alicia M. Lo Galbo, Mark Parry and Troy Mullins¹ Everglades National Park, National Park Service, Homestead, FL, USA</p> <p>4:00 Assessing the Condition of Exotic Plant Species in Big Cypress National Preserve and Everglades National Park -- Jed R. Redwine and Mario Londono; National Park Service, Palmetto Bay, FL, USA</p> <p>4:20 Targeted Ecological Restoration through Shallow Wetland Mitigation Banking with Wood Stork Benefits -- Jason A. Lauritsen¹ and Tim Durham²; ¹National Audubon Society, Naples, FL, USA, ²Stantec, Naples, FL, USA</p> <p>4:40 Fish Use of Canals as Dry-Season Refuges in a Seasonally Variable Freshwater Wetland -- Ann C. Hijuelos and Joel C. Trexler; Florida International University, Miami, FL, USA</p>	<p>Session #100: Wetland Hydrology: Methods for Assessment (Part 2 of 2)</p> <p>[Antigua 3 & 4]</p> <p>Moderator: Wayne Skaggs, North Carolina State University, Raleigh, NC, USA</p> <p>3:30 Session Overview</p> <p>3:40 Application of the MIKE SHE Model to Assess the Hydrologic Criteria for Defining Wetlands in the Lower Coastal Plain -- Z. Dai¹, D. Amaty² and C.C. Trettin²; ¹University of New Hampshire, Durham, NH, USA, ²USDA Forest Service, Cordesville, SC, USA</p> <p>4:00 Threshold Simulation Method for Determining Wetland Hydrologic Status -- William F. Hunt; Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC, USA</p> <p>4:20 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</p> <p>4:40 Evaluating Methods for Determining Whether a Site Meets Wetland Hydrology Criteria -- George M. Chescheir and R. Wayne Skaggs; North Carolina State University, Raleigh, NC, USA</p>

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<p>Session #101: Constructed Wetlands</p> <p>[Bonaire 1 & 2]</p> <p>Moderator: Mark Clark, University of Florida, Gainesville, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Advances in the Use of Passive Wetland Systems for Selenium Treatment of Mine-Impacted Water -- J. Bays¹, BT Thomas², T. Harrison³ and D. Evans⁴; ¹CH2MHILL, Tampa, FL, USA, ²CH2MHILL, Atlanta, GA, USA, ³CH2MHILL, Cincinnati, OH, USA, ⁴CH2MHILL, Houston, TX, USA</p> <p>4:00 Sub-surface Flow Wetlands – Constructed Wastewater Treatment System -- John O'Meara¹, Robert Wiley², David Flowers³ and Alice Bailey¹; ¹Environmental Consulting & Technology, Inc., Ann Arbor, MI, USA, ²St. Clair County Drain Commissioner, St. Clair County, MI, USA, ³Natural Water Solutions, LLC, Cedarburg, WI, USA</p> <p>4:20 Designing Constructed Wetlands to Reduce Mosquito Production: Alternative Emergent Macrophytes -- William E. Walton¹, David A. Popko¹, Dagne Duguma¹ and Justin Richardson²; ¹Department of Entomology, University of California, Riverside, CA, USA, ²Department of Environmental Studies, Dartmouth College, Hanover, NH, USA</p> <p>4:40 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</p>	<p>Session #102: Biogenic Gas Emissions from Peatlands: The Importance of Tropical and Sub-tropical Ecosystems (Part 3 of 3)</p> <p>[Bonaire 3 & 4]</p> <p>Moderator: Boone Kauffman, Oregon State University, Corvallis, OR, USA</p> <p>3:30 Session Overview</p> <p>3:40 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 Barr³, Victor Rivera-Monroy⁴, Robert Twilley⁴, 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</p> <p>4:00 Influences of Cold Air Masses on Trace Gas Exchange between Mangroves and the Atmosphere -- Jose D. Fuentes¹, Vic Engel² and Jordan G. Barr²; ¹Pennsylvania State University, University Park, PA, USA, ²Everglades National Park, Homestead, FL, USA</p> <p>4:20 Dynamic Hotspots of Nitrous Oxide and Methane in Coastal Marshes: Responses to Two Long-term Fertilization Experiments -- Serena Moseman-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</p> <p>4:40 CO₂ and N₂O Fluxes from Coastal Wetlands: Is There Any Difference between Wetlands and Uplands? -- Jianwu Tang¹, Kevin Kroeger² and Serena Moseman-Valtierra³; ¹Marine Biological Laboratory, Woods Hole, MA, USA, ²USGS Woods Hole Center, Woods Hole, MA, USA, ³University of Rhode Island, RI, USA</p>	<p>Session #103: Blue Carbon Green Opportunities (Part 1 of 4)</p> <p>[Bonaire 5 & 6]</p> <p>Moderator: Ariana Sutton-Grier, National Oceanic and Atmospheric Administration, Silver Spring, MD, USA</p> <p>3:30 Session Overview</p> <p>3:40 The Rapidly Evolving Science of Coastal Blue Carbon- What's Known and What Do We Want to Know? -- Stephen Crooks, ESA PWA, San Francisco, CA, USA</p> <p>4:00 Blue Carbon: A Transformational Tool for Marine Management and Conservation Globally -- Emily Pidgeon, Conservation International, Arlington, VA, USA</p> <p>4:20 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</p> <p>4:40 Discussion</p>	<p>Session #104: Self-organized Landscapes: Coastal Wetlands (Part 3 of 3)</p> <p>[Bonaire 7 & 8]</p> <p>Moderator: Rene Price, Florida International University, Miami, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Chemical Sedimentation, Peat Formation and Development of a Palaeoenvironmental Record for the Subtropical Coastal Plain of Maputaland, South Africa -- Marc S. Humphries¹, Finch M. Finch², Claudia R. Benitez-Nelson³ and Letitia Pillay⁴; 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</p> <p>4:00 Feedbacks Shape Seagrass Landscapes -- Tjisse van der Heide¹, Alfons J. P. Smolders², Johan S. Eklöf³, Ellen J. Weerman¹, Egbert H. van Nes⁴, Johan van de Koppel⁵, Tjeerd J. Bouma⁵, B. Klemens Eriksson¹, Marieke M. van Katwijk² and Han Olff¹; 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</p> <p>4:20 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</p> <p>4:40 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</p>

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<p>Session #105: Forested Wetlands [Curacao 1 & 2]</p> <p>Moderator: Dale Knapp, Stantec, Topsham, ME, USA</p> <p>3:30 Session Overview</p> <p>3:40 Tree Growth Response across an Hydrological Gradient at Four Holes Swamp, South Carolina - William H. Conner¹ and Dan Tufford²; ¹Baruch Institute of Coastal Ecology and Forest Science, Georgetown, SC, USA, ²University of South Carolina, Columbia, SC, USA</p> <p>4:00 Floristic Variation across 600 Km of Inundation Forests along the Rio Negro -- Juan Carlos Montero¹, Florian Wittmann², Albert Reif¹ and Maria Teresa Piedade³; ¹Institute of Silviculture and Vegetation Science, University of Freiburg, Germany, ²Max Planck Institute for Chemistry and Biogeochemistry, INPA/Max Planck Project, Manaus, Brazil, ³National Institute for Research in the Amazon (INPA), Manaus, Brazil</p> <p>4:20 Early Growth Performances of the Swamp-forest Tree <i>Pterocarpus officinalis</i> 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</p> <p>4:40 Wetlands of the Brazilian Amazon: Extent and Recent Issues and Concerns on Their Protection -- Maria Teresa Fernandez Piedade¹, Wolfgang J. Junk², Florian Wittmann³ and Jochen Schöngart³; ¹National Institute for Amazon Research, INPA, Manaus, Amazonas, Brazil, ²National Institute for Wetlands, INAU, Cuiabá, Mato Grosso, Brazil, ³Max Planck Institute for Chemistry, Mainz, Germany</p>	<p>Session #106: Water Quality - Phosphorus [Curacao 3 & 4]</p> <p>Moderator: Kevin Grace, DB Environmental, Inc., Rockledge, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Phosphorus Removal Performance and Sustainability of a Submerged Aquatic Vegetation-Dominated Constructed Wetland for Everglades (USA) Restoration -- Forrest E. Dierberg¹, Thomas A. DeBusk¹, Scott D. Jackson¹, Kevin Grace¹, Stacey Galloway¹, Nancy Chan¹ and Delia Ivanoff²; ¹DB Environmental, Inc., Rockledge, FL, USA, ²South Florida Water Management District, West Palm Beach, FL, USA</p> <p>4:00 Long-term Dynamics of Nitrogen and Phosphorus Concentrations in Waters of a Restored Forested Wetland -- Craig Duxbury¹, Scott Davidson², Terry Auter³ and Tom DeBusk³; ¹Walt Disney Imagineering, Research and Development, Lake Buena Vista, FL USA, ²Thermo Fisher Scientific, Sanford, FL USA, ³Azurea, Inc., Rockledge, FL USA</p> <p>4:20 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</p> <p>4:40 Nitrogen and Phosphorus Cycles in Constructed Tidal Flat in Tokyo Bay -- Kazuo Murakami¹, Nana Sasaki¹, Yusuke Umeda¹, Tomohiro Kuwae² and Kouta Nakase³; ¹Tokyo City University, Setagaya, Tokyo, JAPAN, ²Port and Airport Research Institute, Yokosuka, Kanagawa, JAPAN, ³Penta Ocean Construction, Bunkyo, Tokyo, JAPAN</p>	<p>Session #107: Advanced Remote Sensing III: Monitoring (Part 3 of 3) [Curacao 5 & 6]</p> <p>Moderator: John Jones, USGS, Reston, VA, USA</p> <p>3:30 Session Overview</p> <p>3:40 Evaluating Radar Sensors for Retrieving Mangrove Biophysical Parameters of Both Pristine and Degraded Forests -- John M. Kovacs¹, Xixi Lu², Xianfeng Jiao¹, Chunhua Zhang³ and Francisco F. de Santiago⁴; ¹Nipissing University, North Bay, ON, Canada, ²National University of Singapore, Singapore, ³East Tennessee State University, Johnson City, TN, USA, ⁴University of Western Ontario, London, ON, Canada</p> <p>4:00 Monitoring Wetland Changes Using Multitemporal Landsat Change Detection, Web Mapping Services, and Crowd Sourcing -- J. Dykstra¹, D. Meeks², D. Cunningham³, A. Estrada⁴ and G. Koeln⁵; MDA Information Systems, Inc., Geospatial Division, Gaithersburg, Maryland, USA</p> <p>4:20 Twenty-Six Years of Changing Vegetative Cover and Marsh Area -- Michael S. Kearney¹, J. C. Alexis Riter¹ and R. Eugene Turner²; ¹University of Maryland, College Park, MD, USA, ²Louisiana State University, Baton Rouge, LA, USA</p> <p>4:40 Coastal Wetland Monitoring by High-Resolution Satellite Imagery -- Mon-Shieh Yang¹, Ming-Chee Wu¹, Shu-Mei YU² and Shu-Mei Huang¹; ¹National Cheng Kung University, Tainan, Taiwan, ROC, ²Geosat Informatics & Technology Co. Tainan, Taiwan, ROC</p>	<p>Session #108: Emerging Issues in Wetland Restoration in the Peoples Republic of China (Part 2 of 2) [Curacao 7 & 8]</p> <p>Moderator: Kevin Erwin, Kevin Erwin Consulting Ecologist, Inc., Fort Myers, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Eco-economic Aspects of a Dike-pond Project in the Drawdown Zone of the Three Gorges Reservoir -- Bo Li^{1,2}, XingZhong Yuan^{1,2} and J.H. Martin Willison³; ¹College of Resources and Environmental Science, Chongqing University, Chongqing, China, ²Key Laboratory of Exploitation of Southwest Resources and Environmental Hazards Control Engineering, Ministry of Education, Chongqing University, Chongqing, China, ³School for Resource and Environmental Studies, Dalhousie University, Halifax, NS, Canada</p> <p>4:00 Potential for Wetland Restoration in the Drawdown Zone of Hanfeng Lake, Chongqing, China -- J.H. Martin Willison¹, Bo Li^{2,3}, Qiang Wang^{2,3} and XingZhong Yuan^{2,3}; ¹School for Resource and Environmental Studies, Dalhousie University, Halifax, Nova Scotia, Canada, ²College of Resources and Environmental Science, Chongqing University, Chongqing, China, ³Key Laboratory of Exploitation of Southwest Resources & Environmental Hazards Control Engineering, Ministry of Education, Chongqing University, Chongqing, China</p> <p>4:20 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</p> <p>4:40 The Purification Effect of Reed-dominated Raised Fields in a Freshwater Wetland in Northern China -- Yan Lan; Beijing Normal University, Beijing, China</p>

Thursday, June 7, 2012 | 10:30am – 12:00pm

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Session #109: Science of Blue Carbon (Part 2 of 4) [Grand Sierra Ballroom B] Moderator: Pat Megonigal , Smithsonian Environmental Research Center, Edgewater, MD, USA 10:30 Session Overview 10:40 Forecasting Blue Carbon in Tidal Marshes: The Balance between Carbon Sequestration and Methane Emissions -- J. T. Morris ¹ and J. P. Megonigal ² ; ¹ Belle Baruch Institute for Marine & Coastal Sciences, University of South Carolina, Columbia, SC USA, ² Smithsonian Environmental Research Center, Edgewater, MD USA 11:00 Modeling Sea-level Rise Effects on Tidal Wetland Distribution in the San Francisco Bay Estuary -- Lisa M. Schile ¹ , John C. Callaway ² , James T. Morris ³ and N. Maggi Kelly ¹ ; ¹ University of California, Berkeley, Berkeley, CA USA, ² University of San Francisco, San Francisco, CA USA, ³ University of South Carolina, Columbia SC USA 11:20 Exceptionally High Carbon Stocks of Mangroves and their Potential Conservation through Global Carbon Markets -- J Boone Kauffman ¹ , Maria Fenanda Adame ² and Daniel Donato ³ ; ¹ Oregon State University, Corvallis, Oregon, USA, ² CINVESTAV-IPN, Mérida, Yucatán México, ³ University of Wisconsin, Madison, WI USA 11:40 Blue Carbon Stored in the Seagrass Beds of the World -- James W. Fourqurean ¹ , Hilary A. Kennedy ² , Nuria Marbà ³ , Miguel A. Mateo ⁴ , Gary A. Kendrick ⁵ and Carlos M. Duarte ^{3,5} ; ¹ Florida International University, North Miami, FL, USA, ² Bangor University, Bangor, Anglesey, UK, ³ Center for Advanced Studies, Spanish High Council for Scientific Research, Blanes, Spain, ⁴ Mediterranean Institute for Advanced Studies, Spanish High Council for Scientific Research, Esporles, Mallorca, Spain, ⁵ University of Western Australia, Perth, WA, Australia	Session #110: Water, Climate and Landscapes of the Greater Everglades [Grand Sierra Ballroom C] Moderator: Carol Mitchell , Everglades and Dry Tortugas National Park, Homestead, FL, USA 10:30 Session Overview 10:40 Estimating the Cumulative Ecological Effect of Local Scale Landscape Changes in South Florida -- Dianna M. Hogan ¹ , William Labiosa ² , Leonard Pearlstine ³ , David Hallac ^{3,4} , David Strong ¹ , Paul Hearn ¹ and Richard Bernknopf ^{2,5} ; ¹ US Geological Survey Eastern Geographic Science Center, Reston, VA, USA, ² US Geological Survey Western Geographic Science Center, ³ NPS South Florida Natural Resources Center, Everglades and Dry Tortugas National Parks, FL, USA, ⁴ NPS Yellowstone Center for Resources, Yellowstone National Park, WY, USA, ⁵ Department of Economics, University of New Mexico, NM, USA 11:00 Effect of Water Management on Water Supply to Everglades National Park: 1940 to 2010 -- Kevin Kotun; National Park Service, Homestead, FL, USA 11:20 Water Budget, Climate Variability, and Predicting Salinity for Eastern Florida Bay -- Erik Stabenau and Kevin Kotun; National Park Service, Homestead, FL, USA 11:40 Climate Means, Trends and Extremes in the Everglades: Historical Data and Future Projections -- Lydia Stefanova ¹ , Vasu Misra ^{1,2} and Thomas J Smith III ^{3,1} ; ¹ Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, FL, USA, ² Dept. of Earth, Ocean and Atmospheric Science, Florida State University, Tallahassee, FL, USA, ³ USGS, Southeast Ecological Science Center, St. Petersburg, FL, USA	Session #111: Wetland Assessment, Regulation & Mitigation [Antigua 1 & 2] Moderator: Syed Khalil , Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA 10:30 Session Overview 10:40 Great Barrier Reef Catchment: Wetlands Risk Assessment -- Maria Vandergragt, Cheree Fenton and Adam Forknall; Department of Environment and Resource Management, Environment and Resource Sciences, Water Quality and Aquatic Ecosystem Health, Brisbane Qld., Australia 11:00 Palmer Point Park: A Wetland Restoration Design Limited by Site and Stakeholder Conditions -- Jimmy Sellers ¹ , Jenna Vogt-Phillips ¹ and Curtis Smith ² ; ¹ Coastal Technology Corporation, Vero Beach, FL, USA, ² Sarasota County Public Works, Sarasota, FL USA 11:20 Landscape-level Functional Assessment Using Enhanced Wetland Geospatial Data -- Ralph Tiner, U.S. Fish & Wildlife Service, Hadley, MA, USA 11:40 The Design for the Wetland Restoration of a Freshwater Cranberry Bog in New England -- Lee Weishar, Woods Hole Group, Falmouth, MA, USA	Session #112: The Role of Flow and Hydrologic Connectivity in Floodplain and Wetlands Ecosystems (Part 1 of 3) [Antigua 3 & 4] Moderator: Laurel Larsen , U.S. Geological Survey, Reston, VA, USA 10:30 Session Overview 10:40 Widespread 18th-20th c. Burial of Holocene Wet Meadows in the Mid-Atlantic Region, USA, and their Restoration Potential -- Dorothy Merriitts ¹ , Robert Walter ¹ , Allen Gellis ² , Jeff Hartranft ³ , William Hilgartner ⁴ , Michael Langland ⁵ , Paul Mayer ⁶ , Ward Oberholtzer ⁷ and Michael Rahnis ¹ ; ¹ Franklin and Marshall College, Lancaster, PA, USA, ² U. S. Geological Survey, Baltimore, MD, USA, ³ Department of Environmental Protection, Harrisburg, PA, USA, ⁴ Johns Hopkins University and Friends School of Baltimore, Baltimore, MD, USA, ⁵ U. S. Geological Survey, Harrisburg, PA, USA, ⁶ U. S. Environmental Protection Agency, Ada, OK, USA, ⁷ LandStudies, Inc., Lititz, PA, USA 11:00 Millennial Pre-settlement Stability of Sedge Meadow Habitats in Two Piedmont River Valleys -- William Hilgartner ¹ , Dorothy Merriitts ² , Robert Walter ² , Michael Rahnis ² , Christopher Bernhard ³ , Jeff Hartranft ⁴ , Ali Neugebauer ² , Mark Voli ² , Hanna Jantzi ² , Amy Moser ² and Candace Grand Pre ² ; ¹ Johns Hopkins University and Friends School of Baltimore, Baltimore, MD USA, ² Franklin and Marshall College, Lancaster, PA USA, ³ U.S. Geological Survey, Reston, VA USA; ⁴ Department of Environmental Protection, Harrisburg, PA USA 11:20 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 11:40 The Role of River-Floodplain Connectivity in Nitrogen Removal -- Durelle Scott and C. Nathan Jones; Virginia Tech, Blacksburg, VA, USA

Thursday, June 7, 2012 | 10:30am – 12:00pm

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<p>Session #113: Phosphorus - The Ultimate Limiting Element – from Cells to Communities (Part 1 of 2) [Bonaire 1 & 2]</p> <p>Moderator: P.V. Sundareshwar, South Dakota School of Mines and Technology, Rapid City, SD, USA</p> <p>10:30 Session Overview</p> <p>10:40 Just How Much Phosphorus Does a Bacterium Need? -- James Cotner, University of Minnesota-Twin Cities, Saint Paul, MN, USA</p> <p>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</p> <p>11:20 Phosphorus Composition and Reactivity in Outflow Water from Constructed Wetlands -- C. Jørgensen¹, K. S. Inglett² and K. R. Reddy²; ¹Centre for Lake Restoration, Institute of Biology, University of Southern Denmark, Denmark, ²University of Florida, IFAS, Soil and Water Science Department, FL, USA</p> <p>11:40 Does Phosphorus Status in <i>Spartina alterniflora</i> Regulate Oxidized Rhizosphere? -- P. V. Sundareshwar, South Dakota School of Mines and Technology, Rapid City, SD, USA</p>	<p>Session #114: Wetland Restoration and Conservation [Bonaire 3 & 4]</p> <p>Moderator: James Bays, CH2MHILL, Tampa, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Sediment Dynamics in Restored Tidal Wetlands of San Francisco Bay -- John C. Callaway¹, Lisa M. Schile², Eryan L. Borgnis³, V. Thomas Parker³ and Donna Ball⁴; ¹University of San Francisco, San Francisco, CA, USA, ²University of California, Berkeley, CA, USA, ³San Francisco State University, San Francisco, CA, USA, ⁴H.T. Harvey & Associates, Los Gatos, CA, USA</p> <p>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</p> <p>11:20 Restoring Functional Diversity in Rich Fens by Tree Cutting and Ditch-Blocking -- Håkan Rydin¹, Petter Hedberg², Sebastian Sundberg¹, Wiktor Kotowski², Peter Saetre³ and Kalle Mälson⁴; ¹Uppsala University, Uppsala, Sweden, ²University of Warsaw, Warsaw, Poland, ³Karolinska Institutet and Hospital, Stockholm, Sweden, ⁴Uppsala County Administrative Board, Uppsala, Sweden</p> <p>11:40 Environmental Compliance and Ecological Restoration with Floating Wetland Islands -- Kevin Hedge and Ted Gattino; BlueWing Environmental Solutions & Technologies, LLC, Ellicott City, MD, USA</p>	<p>Session #115: Salinization of Freshwater Wetlands (Part 1 of 3) [Bonaire 5 & 6]</p> <p>Moderator: Scott Neubauer, University of South Carolina, Georgetown, SC, USA</p> <p>10:30 Session Overview</p> <p>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, Netherlands</p> <p>11:00 How Does Saltwater Intrusion Alter Anaerobic Microbial Metabolism in a Freshwater Wetland? -- Amy J Burgin¹, Valerie A. Schoepfer¹, Ashley M. Helton², Marcelo Ardón³, Emily S. Bernhardt², Robert A. Payn⁴ and Geoffrey C. Poole⁴; ¹School of Natural Resources, University of Nebraska-Lincoln, Lincoln, NE, USA, ²Biology Department, Duke University, Durham NC, USA, ³Biology Department, East Carolina University, Greenville NC, USA, ⁴Department of Land Resources and Environmental Sciences, Montana State University, Bozeman, MT, USA</p> <p>11:20 Simulating the Influence of Saltwater Intrusion on Coupled Element Cycles in Coastal Plain Wetlands -- Ashley M. Helton¹, Geoffrey C. Poole², Emily S. Bernhardt¹, Robert A. Payn², Clemente Izurieta³ and Amy J. Burgin⁴; ¹Biology Department, Duke University, Durham NC, USA, ²Department of Land Resources and Environmental Sciences, Montana State University, Bozeman, MT, USA, ³Computer Science Department, Montana State University, Bozeman, MT, USA, ⁴School of Natural Resources, University of Nebraska-Lincoln, Lincoln, NE, USA</p> <p>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</p>	<p>Session #116: Mitigating and Adapting to Global Sea Level Rise in the Gulf of Mexico [Bonaire 7 & 8]</p> <p>Moderator: Valsin Marmillion, America's WETLAND Foundation, New Orleans, LA, USA</p> <p>10:30 Session Overview</p> <p>10:40 Addressing Growing Vulnerabilities in the Wake of Coastal Land Loss and Degrading Landscapes that Threaten Coastal and Indigenous Cultures -- Sidney Coffee and Valsin A. Marmillion, America's WETLAND Foundation, New Orleans, LA, USA</p> <p>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</p> <p>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</p> <p>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</p>

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<p>Session #117: The Hydroecology of a Florida River and the Potential Ecological Effects of Human Water Use (Part 1 of 2)</p> <p>[Curacao 1 & 2]</p> <p>Moderator: Edgar Lowe, St. Johns River Water Management District, Palatka, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 General Method for Evaluating Potential Ecological Effects of Altered Hydrologic Regimes -- E. Lowe¹, L. Battoe, D. Dobberfuhr¹, M. Cullum, P. Sucszy, T. Cera, J. Higman, M. Coveney, D. Curtis, L. Keenan, P. Kinser, R. Mattson and S. Miller; St. Johns River Water Management District, Palatka, Florida, USA</p> <p>11:00 Hydroperiod Effects on Annual Release Rates of N, P, and DOC in a Floodplain Wetland -- L. Keenan¹, E. Lowe¹, E. Dunne¹, A. Bochnak², J. Di¹, K. R. Reddy² and A. Wright²; ¹St. Johns River Water Management District, Palatka, Florida, USA, ²University of Florida, Gainesville, Florida, USA</p> <p>11:20 Relationships between Residence Time and Cyanobacterial Blooms in a Nutrient-Rich River System -- Michael F. Coveney¹, John C. Hendrickson¹, Erich R. Marzolf¹, Rolland S. Fulton¹, Jian J. Di¹, Clifford P. Neubauer¹, Dean R. Dobberfuhr¹, Greenville B. Hall¹, Hans W. Paerl² and Edward J. Phelps³; ¹St. Johns River Water Management District, Palatka, FL, USA, ²University of North Carolina Chapel Hill, Institute of Marine Sciences, Morehead City, NC, USA, ³University of Florida, Gainesville, FL, USA</p> <p>11:40 Impacts to Submerged Aquatic Vegetation Associated with Hydrologic Changes in the St. Johns River Estuary, Florida -- D. R. Dobberfuhr¹ and K. Moore²; ¹St. Johns River Water Management District, Palatka, FL, USA, ²Virginia Institute of Marine Sciences, College of William and Mary, Gloucester Point, VA, USA</p>	<p>Session #118: Planning & Implementing Large Scale Ecosystems</p> <p>[Curacao 3 & 4]</p> <p>Moderator: Scott Phillips, USGS, Baltimore, MD, USA</p> <p>10:30 Session Overview</p> <p>10:40 Streamlining Central Everglades Project Planning (CEPP) using CERP Adaptive Management Protocols -- John Marshall, Arthur R. Marshall Foundation/FEI, Lake Worth, FL, USA</p> <p>11:00 Getting the Water Right," Practical Experience in Large-Scale Wetlands Restoration -- Mitchell L. Griffin, Richard T. Morrison and Martha L. Burlingame; CH2M HILL, Gainesville, FL USA</p> <p>11:20 Implementation and Operation of an Everglades Physical Model: The Loxahatchee Impoundment Landscape Assessment (LILA) -- Eric Cline, South Florida Water Management District, West Palm Beach, FL USA</p> <p>11:40 Assessing Hydroperiod Restoration Alternatives in Flatford Swamp, Florida -- B. J. Bukata¹, J. Loper², M. Szafraniec³, K. Kaufman³, L. Morris³ and K. Boulicault⁴; ¹Jones Edmunds & Associates, Inc., Gainesville, FL, USA, ²Interflow Engineering LLC, Tampa, FL, USA, ³Southwest Florida Water Management District, Brooksville, FL, USA, ⁴Singhofen & Associates, Inc., Winter Park, FL, USA</p>	<p>Session #119: Nutrient Cycling - Floodplain Lakes and Streams</p> <p>[Curacao 5 & 6]</p> <p>Moderator: Jan Vymazal, Czech University of Life Sciences Prague, Praha 6, Czech Republic</p> <p>10:30 Session Overview</p> <p>10:40 Biscayne Bay Nutrient Loads and Water Quality Box Model -- Frank E. Marshall¹, William K. Nuttle², Henry O. Briceno³ and Joffre Castro⁴; ¹Cetacean Logic Foundation, New Smyrna Beach, FL, USA, ²Eco-hydrology, Ottawa, Ontario, Canada, ³Florida International University, Miami, FL, USA, ⁴Everglades National Park, Homestead, FL, USA</p> <p>11:00 Floating Wetland for Nutrient Removal in a Stormwater Infiltration Basin -- Ni-Bin Chang, Martin Wanielista and Zheming Xuans; Stormwater Management Academy, Orlando, FL, USA</p> <p>11:20 Water Quality Assessment in the Eastern Niger Delta Region of Nigeria -- Medina O. Kadiri, University of Benin, Benin City, Nigeria</p> <p>11:40 Nutrient Spiraling in a Bottomland Sub-Tropical Stream -- Matthew J. Cohen¹, Wesley Henson², Chris Pettitt³, Valerie Burkett⁴, Grant Weinkam⁴, Joelle Laing¹, Courtney Reijo¹ and T. Elliott Arnold⁵; ¹University of Florida, School of Forest Resources and Conservation, Gainesville, FL, USA, ²University of Florida, Agricultural and Biological Engineering, Gainesville, FL, USA, ³University of Florida, Department of Sociology and Criminology, Gainesville, FL, USA, ⁴University of Florida, Environmental Engineering Sciences, Gainesville, FL, USA, ⁵University of Florida, Geological Sciences, Gainesville, FL, USA</p>	<p>Session #120: Stormwater Wetlands - Design and Performance</p> <p>[Curacao 7 & 8]</p> <p>Moderators: Bill Hunt, North Carolina State University, Raleigh, NC, USA and Margaret Greenway, Griffith University, Brisbane, Australia</p> <p>10:30 Session Overview</p> <p>10:40 Macrophyte Zonation and Sustainability in Stormwater Wetlands in Subtropical Eastern Australia: Design and Function -- Margaret Greenway, Griffith University, Brisbane, Queensland, Australia</p> <p>11:00 Constructed Stormwater Wetlands: Design and Function -- Bridget M. Wadzuk and Robert G. Traver; Villanova University, Villanova, PA, USA</p> <p>11:20 Indicator Bacteria Sequestration in Stormwater Wetlands -- Jon M. Hathaway¹ and William F. Hunt²; ¹Biohabitats, Inc., Raleigh, NC, USA, ²North Carolina State University, Raleigh, NC, USA</p> <p>11:40 Constructed Wetlands versus Ponds for Stormwater Management: A Framework for Ecosystem Services Assessment -- Trisha L. C. Moore and William F. Hunt, North Carolina State University, Raleigh, NC, USA</p>

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<p>Session #121: Policy, Economics, and Management of Blue Carbon (Part 3 of 4)</p> <p>[Grand Sierra Ballroom B]</p> <p>Moderator: Steve Emmett-Mattox, Restore America's Estuaries, Arlington, VA, USA</p> <p>1:30 Session Overview</p> <p>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</p> <p>2:00 Creating a Blue Carbon Asset under the Verified Carbon Standard -- Igno M. Emmer, Silvestrum, The Netherlands</p> <p>2:20 Leveraging Carbon Services for Habitat Conservation: NOAA's Blue Carbon Interests -- Ariana E. Sutton-Grier¹, Roger Griffiths² and Meredith Muth³, ¹Office of Habitat Conservation, National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Silver Spring, MD, USA, ²Office of Science and Technology, National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Silver Spring, MD, USA, ³Climate Program Office, Oceanic and Atmospheric Research, National Oceanic and Atmospheric Administration, Silver Spring, MD, USA</p> <p>2:40 Discussion</p>	<p>Session #122: Extreme Events [Grand Sierra Ballroom C]</p> <p>Moderator: Cheryl Ulrich, Weston Solutions Inc., Atlantic Beach, FL, USA</p> <p>1:30 Session Overview</p> <p>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</p> <p>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</p> <p>2:20 Tropical Storm Impacts to Everglades Stormwater Treatment Area Submerged Aquatic Vegetation Communities -- Scott Jackson¹, Thomas A. DeBusk¹, Jaimee Henry¹ and Neil Larson²; ¹DB Environmental, Inc., Rockledge, FL, USA, ²South Florida Water Management District, West Palm Beach, FL, USA</p> <p>2:40 Sedimentation Patterns Within the Atchafalaya Basin and Morganza Spillway Before and After the Lower Mississippi Flood of 2011 -- Edward R. Schenk¹, Dan Kroes² and Cliff R. Hupp¹; ¹US Geological Survey, Reston, VA, USA, ²US Geological Survey, Baton Rouge, LA, USA</p>	<p>Session #123: Ecosystem Restoration Program Management and Large-Scale Project Implementation (GEER) [Antigua 1 & 2]</p> <p>Moderator: Brian Files, Parsons, Jacksonville, FL, USA</p> <p>1:30 Session Overview</p> <p>1:40 Managing Implementation of a Multi-Decadal Ecosystem Restoration Program -- Eric Bush, U.S. Army Corps of Engineers, Jacksonville District, Jacksonville, FL, USA</p> <p>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</p> <p>2:20 The C-111 Spreader Canal Project: A Unique Example of Public Involvement and Adaptive Management -- Kenneth G. Ammon¹, Devon Utler¹ and Jorge Jaramillo²; ¹WRScompass, West Palm Beach, FL, USA; ²South Florida water Management District, West Palm Beach, FL, USA</p> <p>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</p>	<p>Session #124: The Role of Flow and Hydrologic Connectivity in Floodplain and Wetlands Ecosystems (Part 2 of 3) [Antigua 3 & 4]</p> <p>Moderator: Laurel Larsen, U.S. Geological Survey, Reston, VA, USA</p> <p>1:30 Session Overview</p> <p>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</p> <p>2:00 Hydrologic Processes in a Patterned Peatland -- David A. Kaplan¹, Danielle L. Watts¹, Jing Yuan¹, Matthew J. Cohen¹ and James B. Heffernan²; ¹University of Florida, School of Forest Resources and Conservation, Gainesville, FL, USA, ²Duke University, Nicholas School of the Environment, Durham, NC, USA</p> <p>2:20 Water Residence Time and Nitrogen Loss in a Louisiana Delta: A Modeling Approach -- Ben L. Branoff¹, Robert R. Twilley², Victor H. Rivera-Monroy¹, Edward Castañeda-Moya¹, 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</p> <p>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</p>

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<p>Session #125: Phosphorus - The Ultimate Limiting Element – from Cells to Communities (Part 2 of 2) [Bonaire 1 & 2]</p> <p>Moderator: P.V. Sundareshwar, South Dakota School of Mines and Technology, Rapid City, SD, USA</p> <p>1:30 Session Overview</p> <p>1:40 Uncertain Supplies, Shifting Demands, and the Sustainability of the Human Phosphorus Cycle -- James Elser¹, Genevieve Matson² and Elena Bennett²; ¹School of Life Sciences, Arizona State University, Tempe, AZ, USA, ²Department of Natural Resource Sciences & McGill School of Environment, McGill University, Montreal, Quebec, Canada</p> <p>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</p> <p>2:20 Phosphorus Cycling in a Settlement Pond of a Treatment Wetland -- Santiago Clerici¹, Michael Krom¹, Robert Mortimer¹ and Sally MacKenzie²; ¹University of Leeds, Leeds, UK, ²Wildfowl and Wetlands Trust, Slimbridge, UK</p> <p>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</p>	<p>Session #126: Methane Dynamics in Peatland Ecosystems (Part 1 of 2) [Bonaire 3 & 4]</p> <p>Moderators: Jason Keller, Chapman University, Orange, CA, USA and Scott Bridgman, University of Oregon, Eugene, OR, USA</p> <p>1:30 Session Overview</p> <p>1:40 Controls Over Anaerobic Carbon Cycling and Methane Production in Peatlands -- Scott D. Bridgman¹, Rongzhong Ye¹, Jason K. Keller², Steven McAllister¹, Qusheng Jin¹ and Brendan Bohannon¹; ¹University of Oregon, Eugene, OR, USA, ²Chapman University, Orange, CA, USA</p> <p>2:00 Trophic Status and Methanogenesis in Peatlands -- Mark. E. Hines¹, Jeff P. Chanton² and Edward A.D. Mitchell³; ¹University of Massachusetts Lowell, Lowell, MA, USA, ²Florida State University, Tallahassee, FL, USA, ³Université de Neuchâtel, Neuchâtel, Switzerland</p> <p>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</p> <p>2:40 Understanding Anaerobic C Dynamics and Methane Production in Peatlands through Molecular Characterization of Porewater DOM Reactivity: Oxygen Shedding by DOM during Fermentation -- Malak M.Tfaily¹, J. Elizabeth Corbett¹, Jeffrey P. Chanton¹, Paul H. Glaser², William T. Cooper², David J. Burdige³ and Paul H. Glaser⁴; 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</p>	<p>Session #127: Salinization of Freshwater Wetlands (Part 2 of 3) [Bonaire 5 & 6]</p> <p>Moderator: Amy Burgin, University of Nebraska-Lincoln, Lincoln, NE, USA</p> <p>1:30 Session Overview</p> <p>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. Piehler³; 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</p> <p>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</p> <p>2:20 Saltwater Intrusion Alters Nitrogen and Carbon Export from a Restored Coastal Plain Wetland (North Carolina, USA) -- Marcelo Ardón¹, Emily S. Bernhardt², Ashley Helton², Amy Burgin³, Robert Payn⁴ and Geoffrey Poole⁴; ¹Department of Biology, East Carolina University, Greenville NC, USA, ²Biology 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</p> <p>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 Jun², Erika R. Elswick³ and Christopher, B. Craft¹; 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</p>	<p>Session #128: Amazonian Wetlands [Bonaire 7 & 8]</p> <p>Moderator: Robert Twilley, Univ of Louisiana at Lafayette, Lafayette, LA, USA</p> <p>1:30 Session Overview</p> <p>1:40 Remote Sensing of Large Wetlands: Capturing the Spatial and Temporal Dynamics of the Amazon Floodplain -- Thiago S. F. Silva¹, Evelyn M. L. M. Novo², Tarik S. Araújo¹, Eduardo. M. Arraut², Maycira P. F. Costa³ and John M. Melack⁴; 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</p> <p>2:00 Flood-induced Endemism in Amazonian Floodplain Trees -- Florian Wittmann¹, Ethan Householder², Jochen Schöngart¹, Maria T. F. Piedade², Pia Parolin³ and Wolfgang J. Junk⁴; ¹Max Planck Institute for Chemistry, Mainz, Germany, ²National Institute for Amazon Research - INPA, Manaus, Brazil, ³University of Hamburg, Germany, ⁴National Institute for Wetlands, Cuiabá, Brazil</p> <p>2:20 Ancient Trees in Amazonian Floodplains: Implications for Tropical Forest Ecology and Climate Change -- Jochen Schöngart¹, Florian Wittmann¹, Maria Teresa F. Piedade² and Wolfgang J. Junk³; ¹Max Planck Institute for Chemistry (MPIC), Mainz, Germany, ²National Institute for Amazon Research (INPA), Manaus, Brazil, ³National Institute for Wetlands, Cuiabá, Brazil</p> <p>2:40 The Climate-Tree Growth Relation in Central Amazonian Black-water (igapó) Floodplain Forests -- Eliane Silva Batista² and Jochen Shöngart^{1,2,3}; 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</p>

Thursday, June 7, 2012 | 1:30pm – 3:00pm

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<p>Session #129: The Hydroecology of a Florida River and the Potential Ecological Effects of Human Water Use (Part 2 of 2)</p> <p>[Curacao 1 & 2]</p> <p>Moderator: Edgar Lowe, St. Johns River Water Management District, Palatka, FL, USA</p> <p>1:30 Session Overview</p> <p>1:40 Responses of Estuarine Benthic Macroinvertebrate Communities to Changing River Flows in the St. Johns River Estuary, Florida, USA -- Robert A. Mattson¹, Paul A. Montagna², Terry Palmer² and Jennifer Beseres-Pollack²; ¹St. Johns River Water Management District, Palatka, Florida USA; ²Harte Research Institute for Gulf of Mexico Studies/Texas A & M University Corpus Christi, Corpus Christi, Texas USA</p> <p>2:00 Hydrology and the Distribution of Floodplain Plant Communities of the Upper St. Johns River, Florida -- Palmer Kinser¹, Sandra Fox¹, Lawrence Keenan¹, Aisa Ceric¹, Fay Baird¹, Peter Sucsy¹, William Wise² and Clay Montague²; ¹St. Johns River Water Management District, Palatka, Florida, USA, ²University of Florida, Gainesville, FL, USA</p> <p>2:20 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</p>	<p>Session #130: Predicting the Future of Coastal Louisiana I: Effects of Tides and Storms (Part 1 of 2)</p> <p>[Curacao 3 & 4]</p> <p>Moderator: Denise Reed, University of New Orleans, New Orleans, LA, USA</p> <p>1:30 Session Overview</p> <p>1:40 Eco-Hydrology Modeling in Coastal Louisiana to Assess Project Effects on the Landscape -- Ehab Meselhe¹, John A. McCorquodale², Jeff Sheldon³, Mark Dortch³, Stokka Brown⁴, Mallory Davis⁴, Wang Zhanxian³, Peter Elkan³ 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 & Associates, Lafayette, LA, USA</p> <p>2:00 Short-Term Modeling of Coastal Response to Wave Climate and Relative Sea Level Rise -- Ioannis Georgiou¹, Zoe Hughes², Dallon Weathers¹, Mark Kulp¹ 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</p> <p>2:20 Storm Surge and Wave Modeling for Prioritization of Louisiana Coastal Restoration and Protection Projects -- Hugh J. Roberts¹, Zach Cobell¹ and F. Ryan Clark²; ¹ARCADIS, Boulder, CO, USA, ²ARCADIS, Baton Rouge, LA, USA</p> <p>2:40 Applying the Coastal Louisiana Risk Assessment Model to Assess Long-Term Benefits from Flood Risk Reduction Projects -- Jordan R. Fischbach¹, David R. Johnson² and David S. Ortiz¹; ¹Rand Corporation, Pittsburgh, PA, USA, ²Pardee Rand Graduate School, Santa Monica, CA, USA</p>	<p>Session #131: Wetland Ecosystem Services in a Complex and Changing World (Part 1 of 2)</p> <p>[Curacao 5 & 6]</p> <p>Moderator: Edward Maltby, LSU & Univ. of Liverpool, UK, Baton Rouge, LA, USA</p> <p>1:30 Session Overview</p> <p>1:40 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</p> <p>2:00 Ecosystem Services of European Wetlands – Overview of Current Situation and Future Perspectives -- Tomasz Okruszko¹, Harm Duelt², Mike Acreman³, Mateusz Grygoruk¹, Martina Flörke⁴ and Christof Schneider⁴; ¹Division of Hydrology and Water Resources, Warsaw University of Life Sciences, Poland, ²Deltares, Utrecht, The Netherlands, ³Centre for Ecology and Hydrology, Crowmarsh Gifford, Wallingford, UK, ⁴Center for Environmental Systems Research, University of Kassel, Germany</p> <p>2:20 Wetland Ecosystem Services – Findings from UK National Ecosystem Assessment and Relevance to US -- Edward Maltby, Louisiana State University, Baton Rouge, LA, USA</p> <p>2:40 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</p>	<p>Session #132: Urban Wetlands [Curacao 7 & 8]</p> <p>Moderator: Daniel Childers, Arizona State University, Tempe, AZ, USA</p> <p>1:30 Session Overview</p> <p>1:40 Microbial Processes in Constructed Tidal Wetlands for Removal of Nitrogen from Urban Wastewaters -- Aaron L. Mills¹, Eric Lohan^{1,2}, Joseph Battistelli¹ and Kristina Reid-Black^{1,2}; ¹University of Virginia, Charlottesville, VA, USA, ²Living Machine Systems, L3C, Charlottesville, VA, USA</p> <p>2:00 Contrasting Urban and Natural Wetlands in South-Central New York -- Rebecca L. Heintzman, Megan A. Larson, John E. Titus and Weixing Zhu; SUNY Binghamton, Binghamton, NY, USA</p> <p>2:20 Nutrient and Sediment Cycling and Retention in Urban Floodplain Wetlands -- Gregory B. Noe, Cliff Hupp, Nancy Rybicki, Ed Schenk, and Jackie Batson; National Research Program, U.S. Geological Survey, Reston, VA, USA</p> <p>2:40 Bank On It: Mitigation and the Restoration of Ecosystem Services to Urbanizing Watersheds -- Ann M. Redmond; Brown and Caldwell, Baton Rouge, LA, USA</p>

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<p>Session #133: Blue Carbon Projects (Part 4 of 4)</p> <p>[Grand Sierra Ballroom B]</p> <p>Moderator: Pat Megonigal, Smithsonian Environmental Research Center, Edgewater, MD, USA</p> <p>3:30 Session Overview</p> <p>3:40 Carbon Crediting for Tidal Marshes: Projects in Maryland -- Brian A. Needelman¹ and J. Patrick Megonigal²; ¹University of Maryland, College Park, MD, USA, ²Smithsonian Environmental Research Center, Edgewater, MD, USA</p> <p>4:00 A Wetland Carbon Biosequestration Demonstration Project in the Sacramento-San Joaquin Delta, California, USA -- Brian A. Bergamaschi¹, Frank Anderson¹, Robin Miller¹, Lisa Windham-Myers², David Krabbenhoft³ and Roger Fujii¹; ¹United States Geological Survey California Water Science Center, Sacramento CA, USA, ²United States Geological Survey National Research Program, Menlo Park, CA, USA, ³United States Geological Survey Wisconsin Water Science Center, Madison, WI, USA</p> <p>4:20 Carbon Sequestration in Coastal Freshwater Peatlands: A Market Credit Tool for Restoration - Curtis J. Richardson¹, Neal Flanagan¹, Hongjun Wang¹, Sara Ward² and Tom Augspurger²; ¹Duke University, Durham NC, USA, ²U.S. Fish & Wildlife Service, Raleigh NC, USA</p> <p>4:40 Carbon Management in Coastal Wetlands: A Collaborative Approach to Quantifying GHG Flux to Support Development of a GHG Protocol and Economic Assessment -- Alison S. Leschen, Waquoit Bay National Estuarine Research Reserve, Waquoit, MA, USA</p>	<p>Session #134: Dynamic of Coastal Wetlands</p> <p>[Grand Sierra Ballroom C]</p> <p>Moderator: Robert Daoust, ARCADIS US, Plantation, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Linking Wetlands Hydrology to Estuarine Salinity in the Everglades: Integrated Solutions to Establish Restoration Targets -- G. Lynn Wingard¹ and Frank E. Marshall²; ¹U.S. Geological Survey, Reston, VA, USA, ²Cetacean Logic Foundation, New Smyrna Beach, FL, USA</p> <p>4:00 Restoration of the Everglades' Saline Wetlands and Florida Bay: Responses Driven from Land and Sea -- David Rudnick¹, Colin Saunders², Carlos Coronado², Erik Stabenau¹, Vic Engel¹ and Rene Price³; ¹South Florida Natural Resources Center, Everglades National Park, Homestead, FL, USA, ²Everglades Systems Assessment Section, South Florida Water Management District, West Palm Beach, FL, USA, ³Dept. of Earth and Environment, Florida International University, Miami, FL, USA</p> <p>4:20 Why are Mangroves Expanding into Saltmarshes in Eastern Australia? -- Leila Eslami-Andargoli and Pat ER Dale, Environmental Futures Centre, Griffith School of Environment, Griffith University, Nathan, Queensland, Australia</p> <p>4:40 Seagrasses in Variable Environments: The Importance of Life History in Controlling <i>Ruppia maritima</i> at the Everglades-Florida Bay Ecotone -- Theresa Strazisar¹, Marguerite S. Koch¹, Elizabeth Dutra¹ and Christopher J. Madden²; ¹Aquatic Plant Ecology Laboratory, Biological Sciences Department, Florida Atlantic University, Boca Raton, Florida, USA, ²South Florida Water Management District, Everglades Division, West Palm Beach, Florida, USA</p>	<p>Session #135: Ecosystem Restoration Program Management and Large-Scale Project Implementation (Non-GEER)</p> <p>[Antigua 1 & 2]</p> <p>Moderator: Tom St. Clair, Atkins, Jacksonville, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 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 North America Inc., Jacksonville, FL, USA</p> <p>4:00 Restoration of Significant Wetlands in Interior New South Wales: Co-Ordinating Science, On-Ground Works and Water Delivery -- Neil Saintilan, Office of Environment and Heritage, NSW Department of Premier and Cabinet, Sydney South NSW, Australia</p> <p>4:20 Large-Scale Search for Tidal Mitigation Sites on the Elizabeth River, Virginia -- Mark McElroy, ARCADIS-US, Inc. Newport News, VA, USA</p> <p>4:40 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</p>	<p>Session #136: The Role of Flow and Hydrologic Connectivity in Floodplain and Wetlands Ecosystems (Part 3 of 3)</p> <p>[Antigua 3 & 4]</p> <p>Moderator: Laurel Larsen, U.S. Geological Survey, Reston, VA, USA</p> <p>3:30 Session Overview</p> <p>3:40 A Physical Model of Flow Reconnection to Achieve Ecological Restoration in the Everglades -- Katherine Skalak¹, Vic Engel², Jud Harvey¹, David T. Ho³, Laurel Larsen¹, Sue Newman⁴, Barry Rosen⁵, Colin Saunders⁴, Fred Sklar⁴ and Joel Trexler⁵; ¹U.S. Geological Survey, Reston, VA, USA, ²Everglades National Park, Homestead, FL, USA, ³University of Hawaii, Hilo, HI, USA, ⁴South Florida Water Management District, West Palm Beach, FL, USA, ⁵Florida International University, Miami, FL, USA</p> <p>4:00 Resolving Kilometer-scale Flow Patterns in the Everglades Using SF₆ Tracer Release Experiments: Implications for Habitat Restoration -- David T. Ho¹, Sara Ferrón¹, Victor C. Engel² and Evan A. Variano³; ¹University of Hawaii, Honolulu, HI, USA, ²Everglades National Park, Homestead, FL, USA, ³University of California, Berkeley, CA, USA</p> <p>4:20 Transport Across the Air-Water Interface with Emergent Vegetation -- Evan .A. Variano and Cristina M. Poindexter; University of California, Berkeley, CA, USA</p> <p>4:40 Revisions to the Everglades Depth Estimation Network (EDEN) Surface-water Model -- Pamela A. Telis¹ and Zhixiao Xie²; ¹U.S. Geological Survey, Jacksonville, FL, USA, ²Florida Atlantic University, Boca Raton, FL, USA</p>

Thursday, June 7, 2012 | 3:30pm – 5:00pm

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<p>Session #137: Emerging Contaminants</p> <p>[Bonaire 1 & 2]</p> <p>Moderator: Chris Warn, Weston Solutions Inc, Sarasota, FL, USA</p> <p>3:30 Session Overview</p> <p>3:40 Enhanced Constructed Wetland Technologies for Controlling and Remediating Water Eutrophication -- Xiao-E Yang¹, Zhen-Li He³, Ying Feng¹, Wen-Cheng Wang² and Peter J Stoffella³; ¹Ministry of Education Key Laboratory of Environmental Remediation and Ecological Health, Zhejiang University, Zhijiang 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</p> <p>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</p> <p>4:20 Removal of Pharmaceutical Compounds by Constructed Wetlands Under Different Redox Conditions -- A. F. Hamadeh¹, Piet Lens² and G. Amy¹; ¹WDRC/ King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia, ²UNESCO-IHE Institute for Water Education, Delft, The Netherlands</p> <p>4:40 Pharmaceutical Removal in Tropical Subsurface Flow Constructed Wetlands -- Dong Qing Zhang¹, Soon Keat Tan², Richard M. Gersberg³, Tao Hua¹, Junfei Zhu¹ and Nguyen Anh Tuan¹; ¹DHI-NTU Centre, Nanyang Environment & 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</p>	<p>Session #138: Methane Dynamics in Peatland Ecosystems (Part 2 of 2)</p> <p>[Bonaire 3 & 4]</p> <p>Moderators: Jason Keller, Chapman University, Orange, CA, USA and Scott Bridgman, University of Oregon, Eugene, OR, USA</p> <p>3:30 Session Overview</p> <p>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. Tfaily¹, William T. Cooper², David J. Burdige³ and Paul H. Glaser⁴; 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</p> <p>4:00 The Role of Microbial Diversity and Traits in Methane Cycling in Wetlands -- Paul L.E. Bodelier, Netherlands Institute of Ecology (NIOO-KNAW), Wageningen, the Netherlands</p> <p>4:20 Anaerobic Oxidation of Methane in Northern Peatlands -- Varun Gupta¹, Kurt A. Smemo^{2,3}, Joseph B. Yavitt⁴, Brian Branfireun⁵, David Fowle⁶ and Nathan Basiliko¹; ¹University of Toronto Mississauga, Mississauga, ON, Canada, ²The Holden 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</p> <p>4:40 Effects of Permafrost Thaw on Northern Peatland Methane Emissions -- M. R. Turetsky, Department of Integrative Biology, University of Guelph, Guelph, ON, Canada</p>	<p>Session #139: Salinization of Freshwater Wetlands (Part 3 of 3)</p> <p>[Bonaire 5 & 6]</p> <p>Moderator: Scott Neubauer, University of South Carolina, Georgetown, SC, USA</p> <p>3:30 Session Overview</p> <p>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</p> <p>4:00 Plant Chemistry in a Freshwater Wetland Experiencing Salt Water Intrusion -- K. N. Hopfensperger¹, C. Kowal¹ and A. J. Burgin²; ¹Northern Kentucky University, Highland Heights, KY, USA, ²University of Nebraska-Lincoln, Lincoln, NE, USA</p> <p>4:20 Salinization of <i>Melaleuca</i>-dominated Wetlands of the Gippsland Lakes, Australia -- Paul I Boon, Institute for Sustainability & Innovation, Victoria University, Melbourne, Victoria, Australia</p> <p>4:40 Impacts of Short-term Salinity Intrusion and Post-intrusion Conditions on Oligohaline Wetland Vegetation and Soils -- Whitney M. Kiehn and Irving A. Mendelssohn; Louisiana State University, Baton Rouge, LA, USA</p>	<p>Session #140: Restoration, Mitigation & Policy</p> <p>[Bonaire 7 & 8]</p> <p>Moderator: Patrick Hunt, USDA-ARS, Florence, SC, USA</p> <p>3:30 Session Overview</p> <p>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</p> <p>4:00 Indiana Toll Road Mitigation, Urban Restoration in Gary, Indiana -- Greg Quartucci, Cardno JFNew, Monee, IL, USA</p> <p>4:20 Seagrass Restoration and Mitigation: Policy Change Recommendations -- Althea S. Hotaling, R. Benjamin Lingle and Thomas T. Ankersen; University of Florida, Gainesville, FL, USA</p> <p>4:40 Impact of Policy Implementation on Ecosystems and Water Quality in South Africa -- Mbofho S. Liphadzi, Water Research Commission, Gezina, Pretoria, South Africa</p>

Thursday, June 7, 2012 | 3:30pm – 5:00pm

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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 3:40 Variable Responses of Ecological Attributes and Drivers to Hydrologic Alteration in the St. Johns River, Florida -- E. Lowe, L. Battoe, D. Dobberfuhl, M. Cullum, P. Sucusy, T. Cera, J. Higman, M. Coveney, D. Curtis, L. Keenan, P. Kinser, R. Mattson and S. Miller; St. Johns River Water Management District, Palatka, Florida, USA 4:00 Diverted Mississippi River Sediment as a Potential Phosphorus Source to Louisiana Coastal Systems -- John R. White ¹ , Wei Zhang ² and Ronald D. DeLaune ^{1,2} ; ¹ Louisiana State University, Baton Rouge, LA, USA, ² 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 3:40 Spatial Modeling of Land Change and Relative Elevation to Assess Restoration Priorities in Coastal Louisiana -- Gregory D. Steyer ¹ , Brady R. Couvillion ¹ , Hongqing Wang ¹ , John Rybczyk ² , William Sleavin ¹ , Holly Beck ¹ , Guerry O. Holm, Jr. ³ , Yvonne Allen ⁴ , Craig J. Fisichenich ⁵ and Ronald G. Boustany ² ; ¹ U.S. Geological Survey, Baton Rouge, LA, USA, ² Western Washington University, Bellingham, WA, USA, ³ CH2M HILL, Baton Rouge, LA, USA, ⁴ U.S. Army Corps of Engineers, Baton Rouge, LA, USA, ⁵ U.S. Army Corps of Engineers, Vicksburg, MS, USA, ⁶ U.S. Department of Agriculture, Lafayette, LA, USA 4:00 Forecasting Vegetation Changes in Coastal Louisiana -- Jenneke M. Visser ¹ , Scott Duke-Sylvester ¹ , Jacoby Carter ² and Whitney Broussard ¹ ; ¹ University of Louisiana at Lafayette, Lafayette, LA, USA, ² 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 ¹ , M. Siobhan Fennessy ² , Jessica B. Moon ¹ and Hannah M. Ingram ¹ ; ¹ Penn State University, University Park, PA, USA, ² 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 -- Gwenaël Imfeld and Elodie Maillard, Laboratory of Hydrology and Geochemistry of Strasbourg (LHyGeS), University of Strasbourg/ENGES, 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 ^{1,2} , Ana T. Lima ³ , Arjan Barendregt ⁴ and Jos T.A. Verhoeven ¹ ; ¹ Institute of Environmental Biology, Utrecht University, Utrecht, The Netherlands, ² Hoogheemraadschap van Delfland, Delft, The Netherlands, ³ Department of Earth and Environmental Sciences, University of Waterloo, Waterloo, Canada, ⁴ 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

Friday, June 8, 2012 10:30am – 12:00pm			
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<p>Session #145: Wetlands in Agricultural Watersheds [Grand Sierra Ballroom B]</p> <p>Moderator: Curtis Richardson, Duke University, Durham, NC, USA</p> <p>10:30 Session Overview</p> <p>10:40 Planning Wetland Restoration in Agricultural Watersheds -- Francisco A. Comín¹, Ricardo Sorando¹, Alfonso Calvo², Victor Guirado³ and Nadia Darwiche¹; ¹Instituto Pirenaico Ecologia-CSIC, Zaragoza, Spain, ² Confederación Hidrográfica del Ebro-MMARM, Zaragoza, Spain, ³CKV Consultores, Madrid, Spain</p> <p>11:00 Wetland Functions in the Texas Rice Belt -- Dan Keese; USDA–Natural Resources Conservation Service, Temple, Texas, USA</p> <p>11:20 Conversion of Wetlands to Row Crops in the Prairie Pothole Region -- Carol A. Johnston; South Dakota State University, Brookings, SD, USA</p> <p>11:40 Water Quality Performance of Wetlands Receiving Nonpoint Source Loads -- William G. Crumpton; Iowa State University, Ames, IA, USA</p>	<p>Session #146: Role of the Lower Mississippi River for Sustainable Ecosystem Restoration in Coastal Louisiana [Grand Sierra Ballroom C]</p> <p>Moderator: Richard Raynie, Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA</p> <p>10:30 Session Overview</p> <p>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</p> <p>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</p> <p>11:20 The Louisiana Coastal Area, Mississippi River Hydrodynamic and Delta Management (MRHDM) Study -- Cherie Price¹ and Brian Vosburg²; ¹U.S. Army Corps of Engineers, New Orleans, LA, USA, ²Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA</p> <p>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</p>	<p>Session #147: Ecosystem Restoration Output — Moving Beyond Habitat Units [Antigua 1 & 2]</p> <p>Moderator: Brian Files, Parsons, Jacksonville, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Predicting Wetland Functions at the Landscape Level for Coastal Georgia -- Jan Mackinnon¹, Ralph Tiner² and John Hefner³; ¹Georgia Department of Natural Resources, Brunswick, GA, USA, ²U.S. Fish and Wildlife Service, Hadley, MA, USA, ³Atkins North America, Inc., Raleigh, NC, USA</p> <p>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</p> <p>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</p> <p>11:40 An Evaluation of Coastal Restoration Projects in Louisiana for Nutrient Credit Trading in the Lower Mississippi River Basin -- Guerry Holm, Jr.¹, Ruth Rouse², Lisa Bacon³, Brian Perez¹, Jim Bays⁴, Charles Killebrew⁵ and Jennifer Mouton⁵; ¹CH2M HILL, Baton Rouge, LA, USA, ²CH2M HILL, Raleigh, NC, USA, ³CH2M HILL, Albuquerque, NM, USA, ⁴CH2M HILL, Tampa, FL, USA, ⁵Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA</p>	<p>Session #148: Climate Change Effects on Coastal Wetlands [Antigua 3 & 4]</p> <p>Moderator: Ilka Feller, Smithsonian Institution, Edgewater, MD, USA and Matthew Kimball, LSU, Lafayette, LA, USA</p> <p>10:30 Session Overview</p> <p>10:40 The Salt Marsh-Mangrove Ecotone and Vulnerability of Subtropical Coastlines to Sea-Level Rise -- Karen L. McKee and William C. Vervaeke; U.S. Geological Survey, Lafayette, Louisiana, USA</p> <p>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</p> <p>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</p> <p>11:40 Forecasting Salt Marsh Responses to Sea Level Rise Using the Elevation Capital Concept -- Charles T. Roman¹, Donald R. Cahoon², James C. Lynch³ and Kelly C. Medeiros⁴; ¹National Park Service, Narragansett, RI, USA, ²U.S. Geological Survey, Beltsville, MD, USA, ³National Park Service, Washington, DC, USA, ⁴National Park Service, Wellfleet, MA, USA</p>

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<p>Session #149: Ecological Risk Assessment: Lessons Learned and Future Directions [Bonaire 1 & 2]</p> <p>Moderator: Chris Wilson, Soil and Water Science Department, Fort Pierce, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Wetland and Stream Restoration Techniques Following Emergency Response Actions to the Line 6B Oil Spill in Marshall, Michigan -- Stu Kogge and Brian Majka; Cardno JFNew, Marshall, Michigan, USA</p> <p>11:00 Determination of the Effects of Contaminant Mixtures on Aquatic Macrophytes -- Ramona D. Smith¹, P. Chris Wilson¹ and Samira Daroub²; ¹Soil and Water Science Department, University of Florida/IFAS-Indian River Research and Education Center, Fort Pierce, FL, USA, ²Soil and Water Science Department, University of Florida/IFAS-Everglades Research and Education Center, Belle Glade, FL, USA</p> <p>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</p> <p>11:40 Retention Potential of an Offline Pond-Wetland Combined System on River Water's PAHs through Superficial Sedimentation - Weidong Wang¹, Jun Zheng^{1,2} 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</p>	<p>Session #150: Greenhouse Gases [Bonaire 3 & 4]</p> <p>Moderator: Jackie Batson, U.S. Geological Survey, Reston, VA, USA</p> <p>10:30 Session Overview</p> <p>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 Fujii¹; ¹U.S. Geological Survey, Sacramento, CA, USA, ²U.S. Geological Survey, CA, USA</p> <p>11:00 Do Tidal Salt Marshes Release Greenhouse Gases during the Spring Thaw? -- Gail L. Chmura¹ and Lisa Kellman²; 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</p> <p>11:20 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. Saleska³ and Virginia Rich³; ¹Florida State University, Tallahassee, FL, USA, ²Stockholm University, Stockholm, Sweden, ³University of Arizona, Tucson, AZ, USA</p> <p>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</p>	<p>Session #151: Phosphorus Removal Performance and Sustainability of Florida's Large-Scale Surface Flow Treatment Wetlands [Bonaire 5 & 6]</p> <p>Moderator: Forrest Dierberg, DB Environmental, Inc., Rockledge, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 A Perspective on Florida's Large-Scale Treatment Systems for Phosphorus Removal -- Thomas A. DeBusk¹ and William F. DeBusk²; ¹DB Environmental, Inc., Rockledge, FL, USA, ²Water Resources Group, LLC</p> <p>11:00 Longevity of Phosphorus Control Marshes -- Robert H. Kadlec; Wetland Management Services, Chelsea, MI, USA</p> <p>11:20 Long-Term Phosphorus Removal Performance by a Large-Scale Constructed Wetland Treating Lake Water -- Ed J. Dunne, Michael F. Coveney, Erich R. Marzolf, Victoria R. Hoge, Roxanne Conrow, Robert Naleway, Edgar F. Lowe and Lawrence E. Battoe; St. Johns River Water Management District, Palatka, FL, USA</p> <p>11:40 The Orlando Easterly Wetlands: Sediment Accumulation Management Strategies for Prolonging Phosphorus Removal -- M. D. Sees; City of Orlando, Christmas, FL, USA</p>	<p>Session #152: Wildlife in Greater Everglades and Coastal Ecosystems [Bonaire 7 & 8]</p> <p>Moderator: Kenneth Rice, USGS, Gainesville, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Forecasting Climate Change Effects on Threatened and Endangered Species in the Greater Everglades Ecosystem -- James Watling¹, Laura Brandt², Alison Benscoter¹, David Bucklin¹, Carolina Cabal¹, Frank Mazzotti¹ and Stephanie Romaniach³; 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</p> <p>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. Bonde¹; ¹Southeast Ecological Science Center, U.S. Geological Survey, Gainesville, FL, USA, ²Department of Mathematics and Natural Sciences, College of Coastal Georgia, Brunswick, GA, USA</p> <p>11:20 Wading Bird Foraging Trade-Offs in Response to the Production and Concentration of Prey -- James M. Beerens¹, Erik G. Noonburg¹, Dale E. Gawlik¹ and Douglas D. Donalson²; ¹Florida Atlantic University, Boca Raton, FL, USA, ²US Army Corps of Engineers, Jacksonville, FL, USA</p>

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<p>Session #153: Hydrology [Curacao 1 & 2]</p> <p>Moderator: Russ Weeks, U.S. Army Corps of Engineers, Jacksonville, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Standardized Methods to Compare Hydrologic Conditions in Depressional Freshwater Wetlands -- Terrie M. Lee and Geoffrey G. Fouad; U.S. Geological Survey, Tampa, FL, USA</p> <p>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</p> <p>11:20 Evapotranspiration in the Big Cypress National Preserve, Southern Florida, 2007–2010 -- W. Barclay Shoemaker; U.S. Geological Survey, Davie, FL, USA</p> <p>11:40 Will Hydrologically Restored Mississippi River Wetlands Promote Critical Biogeochemical Function? -- Jared M. Theriot¹, John R. White¹, Ronald P. DeLaune¹ and S. Reza Pezeshki²; ¹Department of Oceanography and Coastal Sciences, Louisiana State University, Baton Rouge, Louisiana, USA, ²Department of Biological Sciences, University of Memphis, Memphis, Tennessee, USA</p>	<p>Session #154: Aquatic Habitat Restoration and Enhancement Program [Curacao 3 & 4]</p> <p>Moderator: Steve Rockwood, Florida Fish and Wildlife Conservation Commission, Fellsmere, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Florida's Aquatic Habitat Restoration and Enhancement Program -- Stephen V. Rockwood¹, Bill Coleman² and Lawson Snyder³; ¹Florida Fish and Wildlife Conservation Commission, Fellsmere, FL, USA, ²Florida Fish and Wildlife Conservation Commission, Eustis, FL, USA, ³Florida Fish and Wildlife Conservation Commission, Tallahassee, FL, USA</p> <p>11:00 A Prioritization Tool for Aquatic Restoration and Enhancement of Florida Public Lakes -- Jessica L. Griffith¹, Michael Allen² and J. Beacham Furse³; ¹Florida Fish and Wildlife Conservation Commission, Kissimmee, FL, USA, ²Southwest Georgia Technical College, Thomasville, GA, USA, ³Florida Fish and Wildlife Conservation Commission, Okeechobee, FL, USA</p> <p>11:20 Aquatic Habitat Management in Florida: A Program for Statewide Wetland Monitoring and Assessment -- Maria W. Merrill¹, Mike Allen², Jessica Griffith³ and Dave Douglas⁴; ¹Florida Fish and Wildlife Conservation Commission, Tallahassee, FL, USA, ²Southwest Georgia Technical College, Thomasville, GA, USA, ³Florida Fish and Wildlife Conservation Commission, Kissimmee, FL, USA, ⁴Florida Fish and Wildlife Conservation Commission, Eustis, FL, USA</p> <p>11:40 Florida Fish and Wildlife Conservation Commission - Hydrilla Management Position Statement -- Ed Harris; Florida Fish and Wildlife Conservation Commission, Orlando, FL, USA</p>	<p>Session #155: Communication, Education and Outreach [Curacao 5 & 6]</p> <p>Moderator: Heather Henkel, USGS, St. Petersburg, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 The Florida-UNESCO-IHE Hydroinformatics Program: Using the Everglades as a Laboratory for Learning -- Stan Bronson¹, Garth Redfield², G. Ronnie Best³ and Schalk Jan van Andel⁴; ¹Florida Earth Foundation, West Palm Beach, FL, USA, ²South Florida Water Management District, West Palm Beach, FL, USA, ³United States Geological Survey, Fort Lauderdale, FL, USA, ⁴UNESCO-IHE Institute for Water Education, Delft, The Netherlands</p> <p>11:00 Wetland Gems of America -- William M. Morgante; RK & K, Baltimore, MD, USA</p> <p>11:20 Community-Based Management of Non-Point Sources of Pollution -- BJ Jarvis; Pasco Cooperative Extension Service, University of Florida/IFAS, Dade City, Florida, USA</p> <p>11:40 Making Wetland Science Work for Wetlands: Perspectives from the Conservation Community -- Melissa A. Samet¹ and Jan Goldman-Carter²; ¹National Wildlife Federation, San Anselmo, CA, USA, ²National Wildlife Federation, Washington, DC, USA</p>	<p>Session #156: Mangrove Ecology [Curacao 7 & 8]</p> <p>Moderator: Dave Rudnick, Everglades National Park, Homestead, FL, USA</p> <p>10:30 Session Overview</p> <p>10:40 Importance of Biodiversity and Biological Interactions on Mangrove Architecture in Mixed Saltmarsh/Mangrove Systems -- Donna J. Devlin and C. Edward Proffitt; Florida Atlantic University, Department of Biological Sciences @ Harbor Branch, Ft Pierce, FL, USA</p> <p>11:00 Fighting on Arrival and Fighting for Survival: A Delphi Study on the Threats and Resilience of Mangroves -- Nibedita Mukherjee^{1,2}, Farid Dahdouh-Guebas^{1,2} and Nico Koedam²; ¹Université Libre de Bruxelles, Brussels, Belgium, ²Vrije Universiteit Brussel, Brussels, Belgium</p> <p>11:20 Projected Climate-Induced Mangrove Forest Range Expansion in the Southeastern U.S.: The Role of Winter Temperatures -- Michael J. Osland¹, Nicholas Enwright², Mary S. Ellison¹, Richard H. Day¹ and Thomas W. Doyle¹; ¹U.S. Geological Survey, Lafayette, LA, USA, ²Five Rivers Services, LLC, U.S. Geological Survey, Lafayette, LA, USA</p> <p>11:40 Ecohydrologic Characterization as an Essential Tool for Successful Mangrove Forest Management and Restoration -- Roy R. Lewis III; Coastal Resources Group, Inc., Salt Springs, Florida, USA</p>

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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/
Lower 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.
Turndown 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 á 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, floats and plunges. Discover the children's playground with miniversions 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)*

Notes

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