CEER

Conference on Ecological and Ecosystem Restoration

Elevating the Science and Practice of Restoration

A Collaborative Effort of NCER and SER

July 28-August 1, 2014 | New Orleans, LA USA

SER SOCIETY FOR ECOLOGICAL RESTORATION

NCER 5th National Conference on Ecosystem Restoration

UF UNIVERSITY of FLORIDA IFAS

CEER 2014

Conference on Ecological and Ecosystem Restoration

ELEVATING THE SCIENCE AND PRACTICE OF RESTORATION

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July 28-August 1, 2014
New Orleans, Louisiana, USA

www.conference.ifas.ufl.edu/CEER2014

Welcome to the UF/IFAS OCI App!

The University of Florida IFAS Office of Conferences & Institutes is happy to present a mobile app for the Conference on Ecological and Ecosystem Restoration.

To access the conference app, scan the QR Code or search "IFAS OCI" in the App Store or Google Play on your Apple or Android device. Log in with the email address you used to register, a social media account, or as a guest. You will be prompted to select an event – choose CEER 2014. The event password is **eco14**.

The app allows you to build a personal conference agenda, stay updated with conference announcements, and connect with sponsors, exhibitors, and fellow attendees. Should you have any questions about the app, please stop by our registration desk for assistance.

***Stay connected!* #CEER2014**

Table of Contents

Welcome to the Conference on Ecological and Ecosystem Restoration (CEER 2014)!

CEER 2014, a collaboration of the National Conference on Ecosystem Restoration (NCER) and the Society for Ecological Restoration (SER), brings together scientists, practitioners, and policy makers to improve all aspects of restoration, from water quality to invasive species control, and to provide practitioners with tools to connect ecological restoration to sustainable communities. Thank you for joining us!

Our location in New Orleans provides a perfect opportunity to explore critical issues surrounding restoration of the Mississippi River watershed and the Gulf of Mexico, arguably one of the greatest restoration challenges of our times. As one of the largest water bodies in the world, the Gulf provides habitat to a vast array of marine organisms from corals to killer whales. The Gulf Region contains *half* the coastal wetlands in the entire United States. Recent disasters in the Gulf region have driven home the link between ecosystem wellbeing and that of human communities, highlighting the critical need for ecological restoration. Restoration dollars are now flowing into the Gulf: the U.S. RESTORE Act will direct 80 percent of the Deepwater Horizon oil spill Clean Water Act fines to the five Gulf Coast states, and the ongoing Natural Resource Damage Assessment (NRDA) process will result in the implementation of ecosystem restoration projects to restore damaged natural resources. To that end, CEER 2014 aims to facilitate sharing of critical knowledge and tools to improve the success of restoration in the Gulf Region and beyond.

CEER 2014 also helps us launch a new chapter in the life of the NCER community. NCER was originally initiated by the University of Florida, U.S. Geological Survey, U.S. Army Corps of Engineers and USDA's Natural Resources Conservation. Over the past decade, NCER has brought together leaders and experts in large-scale ecosystem restoration across the U.S. to share what they have learned and seek common solutions. This past year, the NCER community joined forces with SER – the leading professional organization for the science and practice of ecological restoration, with members in over 70 countries across the globe – to form SER's Large-scale Ecosystem Restoration Section (LERS). LERS will become the official host of future biennial NCER conferences, working in concert with the University of Florida to bring large-scale ecosystem restoration professionals together for continued dialogue in advancing the restoration mission. Stay tuned for details on NCER 2016, and join us Wednesday at 5:00PM in Salon B for the LERS inaugural meeting.

The conference program includes a stellar line-up of political leaders, agency officials, visionaries and restoration professionals who are speaking in five plenary and ten concurrent sessions – yielding a full program of excellent presentations. We are grateful to those who gave of their time and expertise to organize and moderate sessions and to develop the scientific program, and to share their work with the restoration community as talks and posters.

CEER 2014 would not have been possible without the support of our sponsors (page 14-15), whose generous contributions enabled us to create the atmosphere needed to facilitate learning. We would like to thank the many individuals who volunteered their time to organize and plan the conference. Finally, we would like to thank each of you, our attendees, for making time in your schedule to participate in the ongoing restoration dialogue. Be sure to take advantage of all CEER has to offer, especially during our closing plenary which will focus on advancing policy on ecosystem restoration funding.

On behalf of the entire planning committee, we welcome you to CEER 2014. We're glad you could join us!

Cheryl P. Ulrich and Cara R. Nelson, CEER 2014 Conference Co-Chairs

In Honor of
David Allen Vigh
(January 13, 1958 - April 30, 2014)

A celebration of the contributions of an inspiring member of the restoration community…

It seems fitting that we honor David Vigh at the 2014 Conference on Ecological and Ecosystem Restoration (CEER). Dave served as the Conference Chair for the Second National Conference on Ecosystem Restoration (NCER), and his efforts helped solidify the NCER as a high quality venue for practitioners of ecosystem restoration to sustain an ongoing dialog on science in support of management. Dave died on April 30, 2014 at the young age of 56. CEER's description as a "Collaborative Effort" between NCER and the Society for Ecological Restoration (SER) would bring a smile to Dave's face, as the word "collaboration" encapsulates his career-long approach to improving environmental stewardship and promoting sustainable restoration of natural ecosystems.

Dave was born in Pennsylvania, and his college days took him on a journey from Tennessee to Virginia and finally to Tulane University in New Orleans, LA where, after obtaining his PhD, he began his career with the US Army Corps of Engineers (Corps) almost 30 years ago. The significance of this north-south-east-west journey was not lost on Dave, as it helped solidify his broad perspective of the connectedness of natural ecosystems and the importance of looking at all the pieces and their interactions. Dave's career started in the Regulatory area with the Corps' New Orleans District. He moved to Vicksburg, MS in 2002 to work with the environmental team at the Mississippi Valley Division (MVD), encompassing all the Corps Districts along the Mississippi River.

Throughout his career, Dave remained a proud a civil servant committed to a mission. In his final role as the MVD Senior Regional Biologist, Dave led many efforts to unite people and organizations with different goals in ways that demonstrated the strength of our diversity of culture and history as a resource to be drawn upon to accomplish tremendous things. He forged numerous Memorandums of Understanding between the Corps and non-governmental organizations as diverse as the Nature Conservancy, the National Eagle Center, the National Audubon Society, the Sand County Foundation, and Ducks Unlimited. In doing so, he appreciated that the value of this exercise was not in the piece of paper that acknowledged the agreement, but rather in the process of bringing people with contrasting perspectives together to do greater things than could be done individually.

He was proud to serve as mentor, guide, and proponent for Corps biologists young and old.
In his leadership role, Dave initiated an event that brought together environmental leaders from across the region in annual meetings to facilitate the relationship-building necessary for efficient and effective management of the Corps' various environmental, cultural, and tribal programs, from the Mississippi River headwaters to its mouth. Dave had the insight to vary the meeting location each year so over time staff had an opportunity to meet partners from outside their routine geographic focus, to gain broader understanding of ecosystems, and to share solutions across organizations. Dave's primary aim was to be

inclusive and foster collaboration between groups that on the surface might appear to have little in common but by working together were able to develop new perspectives in problem solving.

Dave took great pleasure in nurturing inter-agency cooperation and accomplishments through his work on the Planning Committee of the Midwest Natural Resources Group (MNRG), a forum for Federal agency senior executives to bring focus to Federal activities supporting the sustainability of natural resources and the environment across the Midwest. He was instrumental in obtaining signatures from all fifteen MNRG agencies on the 2009 Mississippi River Watershed "Call to Action" letter and, although Dave would scoff at the value of his involvement in this unprecedented effort, he clearly helped plant that seed which stimulated the first "America's Inner Coast Summit" in 2010 and which has since evolved into the "America's Watershed Initiative Summit" (2012, 2014), a growing dynamic collaboration across the world's third largest watershed.

Dave was a steadfast champion for environmental and cultural resources protection and maintained an appreciation for both big picture policy and field data collection. He actively supported the Corps' role on the Hypoxia Task Force, helped build the first Planning Center of Expertise for Ecosystem Restoration in the Corps, and shepherded issues and concerns from the field up to headquarters, simultaneously ensuring that new policy guidance and HQ perspectives made it back to the field.

Although Dave reveled in creating opportunities for collaboration, his associates and colleagues will remember him equally well for his passion for debate, and for his whimsy. One colleague noted that "his passion and enthusiasm were truly contagious and his verbal sparring skills a pleasure to engage." The stainless steel mug on Dave's mantle had engraved the word "Nitro" on one side and "Glycerin" on the other. Dave often challenged those he respected to be the "Nitro" in a match-up against his "Glycerin". If Dave called and said "Hey Nitro," you knew immediately you were being called upon to engage in another set of adventures that required your unique talents to make something happen—and make it happen fast.

Dave departed this life much too early, cutting short those collaborative "Glycerin" and "Nitro" adventures he might have spurred. But he has left footprints that are easily tracked and visible to anyone willing to follow them.

Just be careful, because Glycerin walked this way, and this path promises a slip-slide adventure.

Dave Vigh and Beth Miller-Tipton, Director at UF's Office of Conferences & Institutes (OCI), worked together over several years to organize many events to unite ecosystem restoration professionals.

Terry Mulcahy, US Army Mayor General Ret., presenting appreciation award to Dave Vigh at America's Inner Coast Summit (June 22-24, 2010) in St. Louis, Missouri. AICS has since become America's Watershed Initiative (AWI).

About CEER

WHAT IS CEER?

CEER is a Collaborative Effort of the leaders of the National Conference on Ecosystem Restoration (NCER) and the Society for Ecological Restoration (SER). It brings together ecological and ecosystem restoration scientists and practitioners to address challenges and share information about restoration projects, programs, and research from across North America. Across the continent, centuries of unsustainable activities have damaged the aquatic, marine, and terrestrial environments that underpin our economies and societies and give rise to a diversity of wildlife and plants. This conference supports SER and NCER efforts to reverse environmental degradation by renewing and restoring degraded, damaged, or destroyed ecosystems and habitats for the benefit of humans and nature. CEER is an interdisciplinary conference and brings together scientists, engineers, policy makers, restoration planners, partners, NGO's and stakeholders from around the world actively involved in ecological and ecosystem restoration.

BACKGROUND

NCER and SER have years of experience organizing separate conferences on restoration.

NCER was previously held in Orlando, FL (2004), Kansas City, MO (2007), Los Angeles, CA (2009) and Baltimore, MD (2011). NCER brings together scientists, engineers, policy makers, planners and partners from across the country actively involved in ecosystem restoration.

Founded in 1988, SER is a global network of restoration practitioners and researchers that has organized or co-hosted 18 conferences on ecological restoration in the U.S., Mexico, Canada, Europe and Australia.

Now NCER and SER have agreed to combine our energies and talent to produce a large conference covering restoration topics relevant to private sector, government and non-profit restoration constituents throughout the country.

THE LOCATION

From the Chesapeake Bay to the Great Lakes to Puget Sound, the federal, state and municipal governments spend billions of dollars annually on large and small restoration projects. But New Orleans and the Gulf of Mexico are world renowned examples of the need and power of restoration.

Our location here in New Orleans is a fitting locale as the Gulf Coast ecosystem continues to recover from the 2010 Deepwater Horizon Oil Spill. In response to the oil spill, and aided by funding from responsible parties, Louisiana and the Gulf Coast region is in the midst of the implementation of arguably the Nation's largest ecosystem restoration effort to date. The Resources and Ecosystems Sustainability, Tourist Opportunities and Revived Economies of the Gulf Coast States Act (RESTORE Act) directs 80 percent of the Deepwater Horizon oil spill Clean Water Act fines to the Gulf Coast states of Louisiana, Texas, Mississippi, Alabama and Florida. In addition, the Natural Resource Damage Assessment (NRDA) process will result in the implementation of additional ecosystem restoration projects intended to restore damaged natural resources to their pre-oil spill conditions. These efforts will result in billions of dollars being dedicated to coastal restoration projects intended to mitigate the impacts of one of the worst man-made environmental disasters the Nation has experienced.

CONFERENCE OVERVIEW

Through a multidisciplinary, interactive forum, CEER:

- addresses the latest innovations, methods, and tools for combating ecosystem and ecological degradation
- facilitates the sharing of experiences and the exchange of ideas between ecological and ecosystem restoration professionals at both national and international levels
- explores the roles of policy, planning and science in establishing goals and achieving successful and sustainable ecological and ecosystem restoration, and assessing and incorporating ecosystem services into the public and private decision-making process
- explores the roles of state-of-the art science, methods, tools, processes, engineering, planning and policy as applied to ecological and ecosystem restoration efforts

COLLABORATIVE DIRECTIONS

We encourage you to take advantage of the full potential of CEER, including all of the networking opportunities which allow you to share ideas with colleagues from across the country and around the world. We urge you to keep the connections you make here active and continue to collaborate in addressing restoration issues long after the conference is over.

To that end, many oral and poster presenters are authorizing us to share PDFs of their presentations, which will be available on the CEER web site a few weeks following the conference. The List of Registrants at the back of this book and the Conference Mobile App give you access to more than 600 contacts in the palm of your hand. It is our hope that these tools will help you remember the conversations that begin here, and maintain ongoing dialogue once you get back to work.

We're certain you will agree CEER provides a valuable forum for sharing, learning and forging new connections with restoration colleagues. And the very basic truth is that we must work together to solve big problems and protect earth's natural resources and ecosystems for future generations.

About the Society for Ecological Restoration

SER is an international nonprofit organization dedicated to *promoting ecological restoration as a means of sustaining the diversity of life on Earth and re-establishing an ecologically healthy relationship between nature and culture*. SER believes that active, science-based restoration of damaged and degraded ecosystems, in combination with conservation and effective management of key natural areas, is vital to maintaining biological diversity and ecosystem goods and services. Since its founding in 1988, SER has strived to advance the science and practice of restoration by supporting the work of researchers and practitioners around the world; disseminating technical guidance and information on best practices; increasing awareness of, and public support for, restoration; and contributing to policy discussions at the national and international level.

SER has over 2,500 members in more than 70 countries. The Society also has 14 Regional Chapters serving members across Australasia, Asia, North America, and Europe; nine Student Associations serving the United States and Canada; and one Thematic Section serving members interested in large-scale ecosystem restoration. SER's diverse membership includes scientists and practitioners from indigenous groups, the corporate sector, public agencies, conservation groups, university research departments, and environmental consulting firms. SER members are natural and social scientists, policy makers, program managers, environmental engineers, urban and regional planners, landscape architects, educators, and community advocates.

Visit SER at **Booth #1** to learn more about the Society. Join during the CEER meeting and receive a **special 20% discount** on the cost of membership!

WWW.SER.ORG

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LOOK FOR SER BOARD MEMBERS IN THIS WEEK'S PROGRAM

Tuesday, July 29, 2014

- OPENING PLENARY SESSION *(Cara Nelson & Cheryl Ulrich)*
- Session 3: Regime Changes, Resilience & Restoration – The Evolving Dialogue *(Cara Nelson)*
- Session 6: Coastal Ecosystem Services *(Michael Leff)*

Wednesday, July 30, 2014

- Session 34: Innovative Coastal Habitat Restoration *(Joe Berg)*
- Session 48: Innovative Terrestrial Restoration and Tribal Partnerships – Part 2 *(Samira Asem & Kingsley Dixon)*
- Session 52: PANEL SESSION – Share Your Perspectives on the Current State of Knowledge and Practice in Ecological Restoration *(Cheryl Ulrich & Judy Haner)*
- PLENARY SESSION: Announcing LERS *(All Board and Staff Members)*

Thursday July 31, 2014

- PLENARY SESSION: Around the World Restoration *(Cheryl Ulrich, Kingsley Dixon, Samira Omar Asem, Vera Lex Engel, Robert Daoust)*
- Session 67: Ridge and Shoreline Restoration *(David Polster)*
- Closing Session: Recognition & Awards Ceremony *(Robert Daoust)*

Poster Presentation

- The Islands Of The Delaware River: Using GIS To Prioritize Restoration And Conservation Effort *(Carol Maxwell)*

Join Your Local SER Chapter

The Society works to support restoration at regional and local levels through its 14 regional chapters in Australasia, Asia, North America, and Europe. To learn more about a chapter in your region or to become a member of your local chapter, visit: www.ser.org/membership/chapters.

SER Australasia
Serving members in throughout Australasia

SER Europe
Serving members in Europe and the British Isles

SER Central Rockies
Serving members in Colorado and Wyoming

SER Great Basin
Serving members in Utah, Nevada, southern Idaho, southeastern Oregon and eastern California

SER Mid-Atlantic
Serving members in Maryland, New Jersey, New York, Pennsylvania, Delaware, Virginia, West Virginia and the District of Columbia

SER Midwest-Great Lakes
Serving members in Indiana, Illinois, Ohio, Michigan, Minnesota and Wisconsin

SER New England
Serving members in Maine, New Hampshire, Vermont, Massachusetts, Rhode Island and Connecticut

SER Northwest
Serving members in the Cascadia Bioregion, including Alaska, Idaho, Northern California, Montana, Oregon and Washington

SER Southeast
Serving members in Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee

SER Southwest
Serving members in Arizona, New Mexico, Utah, southern Nevada and southern California

SER Texas
Serving members in Texas

SER Ontario
Serving members in Ontario, Canada

SER Western Canada
Serving members in British Columbia, Alberta, Saskatchewan, Manitoba and the Yukon and Northwest Territories

SER Nepal
Serving members in Nepal

UPCOMING SER CHAPTER CONFERENCES

Collaborative Restoration – ***Bend, Oregon*** – October 6-10, 2014
Joint Conference of SER Northwest & SER Great Basin

Ecological Restoration in the Southwest – ***Alpine, Texas*** – October 17-19, 2014
Joint Conference of SER Texas & SER Southwest

From Large to Small Islands – ***Nouvata Park, New Caledonia*** – 17-21 November, 2014
2nd Annual Conference of SER Australasia

SER Large-scale Ecosystem Restoration Section (LERS) New Host of NCER

Beginning in 2004, a group of large-scale ecosystem restoration practitioners from across the United States began holding the biennial National Conference on Ecosystem Restoration (NCER) under the leadership of the University of Florida, US Geological Survey, the Natural Resources Conservation Service and US Army Corps of Engineers. NCER arose out of the need to share state-of-the art science, best management practices, policy perspective, and innovative ideas related specifically to large-scale, federally funded ecosystem restoration projects. In October 2013, the NCER community of practice formally organized as the Large-scale Ecosystem Restoration Section (LERS) within the Society for Ecological Restoration. SER's first Thematic Section, LERS has over a decade of experience uniting and amplifying the many voices of the large-scale restoration community in order to more effectively influence policy, minimize duplication of efforts, and maximize financial resources for large-scale efforts. NCER will continue as a biennial conference of LERS.

LERS addresses ecosystem restoration themes ranging from defining and measuring success, adaptive management, adaptive governance, and linking science with management decision-making. Current issues include novel ecosystems, ecosystem goods and services, urban ecosystem restoration, and climate change and ecosystem resilience. The mission of the LERS community of practice is to:

- *Advance public education and enlightenment concerning large-scale ecosystem resources;*
- *Provide a forum for an interchange of ideas, approaches, lessons learned, and data developed relevant to planning, policy, science, and engineering of large-scale ecosystem restoration;*
- *Develop and encourage large-scale ecosystem restoration as a discipline by supporting student education, curriculum development, and research; and*
- *Encourage and evaluate the educational, scientific, engineering, and technological development and advancement of all branches of large-scale ecosystem restoration and practice.*

ANNOUNCING: LERS – THE *NEW* LARGE-SCALE ECOSYSTEM RESTORATION SECTION OF SER
Wednesday, July 30th | 5:00 - 5:30 PM | Salon B - 1st Floor
Please Join LERS at their inaugural meeting! You'll have a chance to learn more about LERS as well as interact with LERS and SER leaders and staff.

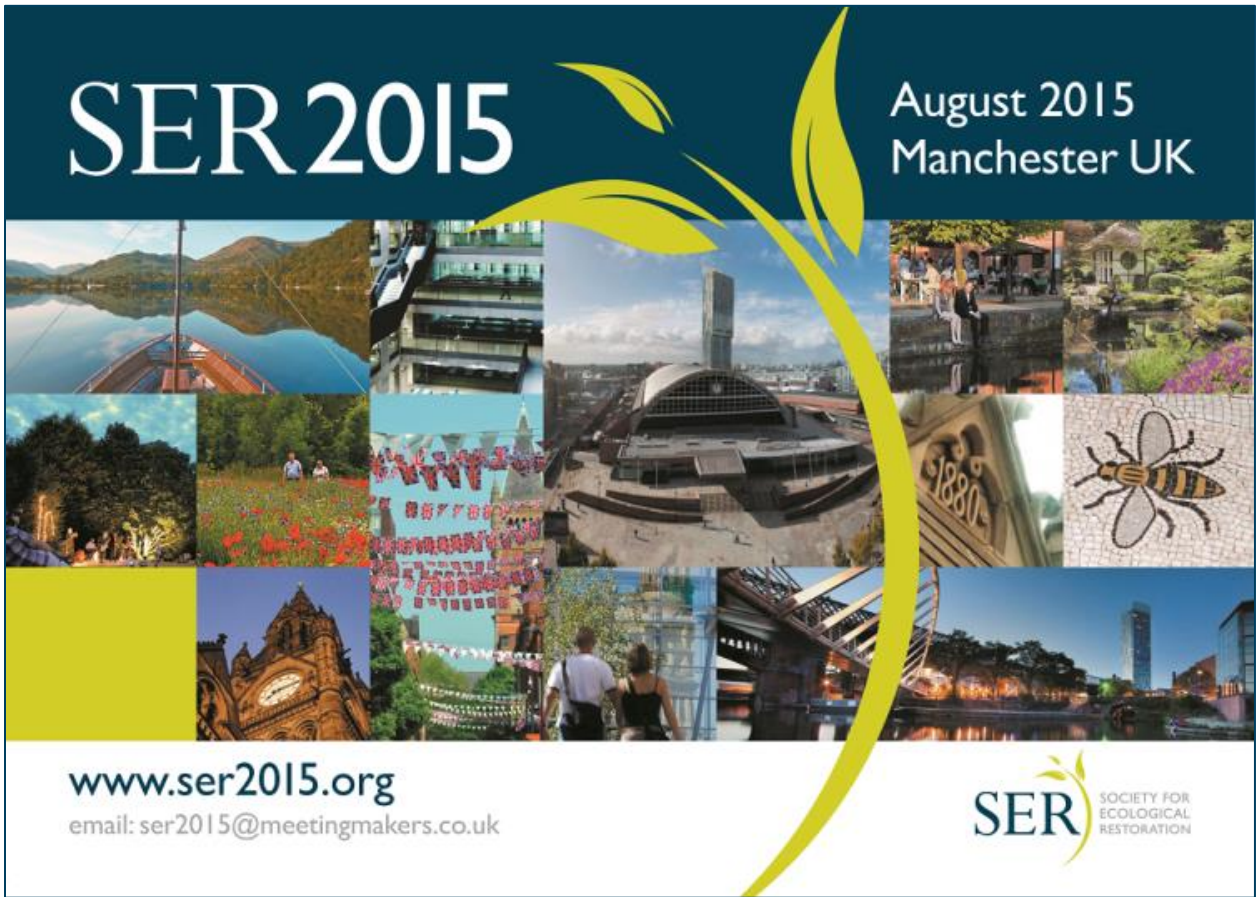
SER members can join LERS for just $10 per year. Learn more & affiliate:
CHAPTER.SER.ORG/LERS

Join SER for its Next World Conference

SER will hold its 6th World Conference on Ecological Restoration (SER2015) in Manchester, England from August 26-30, 2015. The theme of the conference is *Resilience Ecology: Urban, Rural and Wild Restoration*. The program will focus on four key strands – science, culture, arts, and education – providing an integrated whole view of the ecological challenges we face. SER2015 will take the tangible manifestations and the practical applications of resilience as the main theme to explore the cutting-edge developments in and impacts of restoration ecology.

The conference will be held at the award-winning Manchester Central convention center, a former railway station, in the heart of Manchester city center. Manchester is a vibrant city just two hours by train from London. A vibrant and walkable city, Manchester will set an exciting backdrop for attendees and their companions.

The **Call for Abstracts** will open in late 2014, so put us on your calendar!



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ARCADIS is an international company providing consultancy, design, engineering and management services in infrastructure, water, environment and buildings. We enhance mobility, sustainability and quality of life by creating balance in the built and natural environments. ARCADIS develops, designs, implements, maintains and operates projects for companies and governments. With 21,000 employees and more than $3.2 billion in revenues, the company has an extensive international network supported by strong local market positions. ARCADIS is a recognized leader in ecosystem restoration in the US and around the world. ARCADIS supports UN-HABITAT with knowledge and expertise to improve the quality of life in rapidly growing cities around the world.

Atkins Global
[BOOTH #24]
WEBSITE: www.atkinsglobal.com
REPRESENTATIVE: Beth Spalding (elizabeth.spalding@atkinsglobal.com)

Silver Sponsor

Atkins has a long history of assisting clients through the maze of environmental regulations concerning waters of the U.S., including wetlands, threatened and endangered species, and water quality.

With technical experts in natural and life sciences including hydrology, botany, zoology, limnology and aquatic biology, terrestrial ecology, estuarine and marine science, and resource management, Atkins can support all your environmental needs. Our project experience includes natural systems in wetland, upland, riparian, marine, estuarine, and lake environments. The firm is recognized for its ability to develop and implement comprehensive ecological restoration for a wide variety of natural resources including lakes, rivers, streams, estuaries, and wetlands. We incorporate a wide range of innovative strategies such as fish and wildlife management, pollution abatement using wetland treatment, mitigation banking, monitoring, and adaptive management. In addition, we are frequently called upon to provide specialized expertise in such challenging areas as natural resource damage assessment, and expert witness services. Atkins has an excellent reputation for developing efficient and innovative solutions to complex regulatory problems. We have extensive experience conducting research and investigations, and preparing studies and documents that comply with requirements of the Clean Water Act, Rivers and Harbors Act, Endangered Species Act (ESA), Clean Air Act, NEPA, National Historic Preservation Act, and numerous other federal, state, and local regulations.

Biohabitats, Inc.
[BOOTH #3]
WEBSITE:
www.biohabitats.com
REPRESENTATIVE: Amy Nelson (anelson@biohabitats.com)

Silver Sponsor

Since opening its doors in 1982, Biohabitats has helped communities improve water quality, increase wildlife habitat, restore degraded ecosystems, and facilitate educational opportunities through ecological restoration, conservation planning and regenerative design initiatives that are scientifically sound, realistic to implement, and cost effective to manage. Biohabitats' interdisciplinary team of ecologists, biologists, environmental scientists, landscape architects, planners, and engineers

recognizes that nature is a dynamic force that affects people as much as it is influenced by their actions. That is why they approach every project with the understanding that outcomes are most powerful when they support whole, living systems that lead to ecological, cultural and economic benefits. Whether the firm is transforming an outdated stormwater pond into a fully functioning natural wetland, helping a university plan for growth while enhancing the natural resources of its campus, collaborating with elders to restore rivers on tribal land, or regenerating beauty, vitality and ecological function along an urban waterfront, Biohabitats creates solutions are that are comprehensive, fully integrated, and based on an understanding that people, nature, commerce and culture are all inextricably linked.

Bluestem Communications
[BOOTH #8]
WEBSITE:
www.bluestemcommunications. org/
REPRESENTATIVE: Jennifer Browning
(jbrowning@bluestemcommunications.org)

Bluestem Communications researches, designs, implements and evaluates communication and education strategies to connect existing personal values to environmental causes. Our work motivates targeted audiences—like homeowners, business owners and elected officials—to value the role healthy ecosystems play in sustaining quality of life and to take action to protect and restore Earth's natural resources. We partner with other nonprofit organizations, coalitions and agencies to improve their internal and external communications to advance their environmental goals.

Brown and Caldwell
[Non-Exhibiting Sponsor]
WEBSITE:
www.brownandcaldwell.com
REPRESENTATIVE: Ann Redmond
(ARedmond@BrwnCald.com)

Silver Sponsor

Brown and Caldwell is a 100-percent environmental firm with 1,500 professionals serving clients locally and globally. We offer full-service delivery of engineering, scientific, consulting and construction services and all the essential ingredients® for a successful project and a standout experience. Service, great technical solutions, and innovation: these qualities were important to our founders in 1947, and they are still essential to BC and our clients today.

CH2M HILL
[Table Top #2]
WEBSITE:
www.ch2m.com
Representative: Aaron Bass
(aaron.bass@ch2m.com)

Employee-owned CH2M HILL is a global leader in consulting, design, design-build, operations and program management for government, civil, industrial and energy clients. The firms' work is concentrated in the areas of water, environment, transportation, energy, facilities and resources. With $7 billion in revenue and over 28,000 employees around the world, CH2M HILL is an industry leading program management, construction management, and design firm, as ranked by Engineering News-Record and named a leader in sustainable engineering by Verdantix. Please visit us at ch2mhill.com, twitter.com/ch2mhill, and facebook.com/ch2mhill.

Coalition to Restore Coastal Louisiana
[BOOTH #10]
WEBSITE: www.crcl.org
REPRESENTATIVE: Carey Perry
(careyp@crcl.org)

CRCL is a non-profit advocacy organization whose mission is to restore and protect a sustainable coastal Louisiana. CRCL advocates for the implementation of sound coastal policies and monitors coastal activities to ensure that stringent regulations and enforcement policies are maintained. Incorporated in 1988, CRCL represents a unique mix of businesses, local governments, industries, scientific communities, national and local conservation groups, hunters, anglers and a broad spectrum of concerned citizens who all share a common vision and commitment to the sustainability of coastal Louisiana. The common vision of these varied and diverse interests is the driving strength of CRCL, the most effective and recognized coastal advocacy organization in the state.

Coastal Protection and Restoration Authority of Louisiana [BOOTH #35]
WEBSITE: www.coastal.la.gov
REPRESENTATIVE: Chuck Perrodin (Chuck.Perrodin@la.gov)

Silver Sponsor

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 marshaling 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.

Dewberry [BOOTH#15]
WEBSITE: www.dewberry.com
REPRESENTATIVE: Maury Chatellier (mchatellier@dewberry.com)

Silver Sponsor

Beyond the Ordinary. Imagine a professional services firm with vision beyond "the ordinary." A firm with deep subject-matter expertise as well as deep national resources. A firm committed to putting clients at the center of everything it does. That firm is Dewberry. And those qualities are among the pillars of what we call "The Dewberry Way" – a set of guiding principles and values that govern the way we've done business for more than a half-century. Our architects, engineers, and consultants – many of whom are internationally recognized authorities – offer a proven track record of providing award-winning services and solutions to a wide variety of public- and private-sector clients. We've built long-term, trusted relationships through unsurpassed client service and a dedication to solving today's – and tomorrow's – most complex challenges. In the process, we help our clients transform their communities and improve the quality of life. However, the true measure of Dewberry lies in the commitment and caliber of our people. We hope you'll take the opportunity to meet with us and experience The Dewberry Way first-hand. Dewberry is a leading professional services firm with a proven history of providing architecture, engineering, and management and consulting services to a wide variety of public and private sector clients. These include government agencies, the military community, municipalities, institutions, and corporations. Recognized for combining unsurpassed commitment to client service with deep subject matter expertise, Dewberry is dedicated to solving clients' most complex challenges and transforming their communities. Established in 1956, Dewberry is a family owned firm headquartered in Fairfax, Virginia, with more than 40 locations and 1,750 professionals nationwide.

Dynamic Solutions, LLC [BOOTH #2]
WEBSITE: www.dsllc.com
REPRESENTATIVE: Shaye Sable (ssable@dsllc.com)

Silver Sponsor

Dynamic Solutions, LLC is building a better future and a cleaner environment through the expert application of advanced hydrodynamic, sediment transport, water quality, toxics transport and aquatic ecosystem modeling tools. For over 16 years, we have been one of the nation's leading multi-dimensional surface water modeling firms focusing their modeling practice on restoring and enhancing the ecological viability of their water resources while balancing the needs of mankind.

EarthBalance [BOOTH #16]
WEBSITE: www.earthbalance.com
REPRESENTATIVE: Sarah Laroque (slaroque@earthbalance.com)

Silver Sponsor

EarthBalance® is Florida's leading ecological restoration and consulting firm, specializing in restoring, protecting, and managing ecosystems. We take projects from inception through permitting, construction, and regulatory compliance, and we develop ecological solutions that benefit both society and the environment. Our core services include environmental consulting, Geographic Information Systems (GIS), ecosystem restoration, mitigation banking, and native plant supply. EarthBalance® combines the knowledge-

based work of environmental consulting with real world implementation of habitat restoration. We utilize industry-leading technologies to achieve optimal restoration results.

Established in 1985, EarthBalance® serves clients throughout Florida and surrounding states, with offices in North Port, Central Florida, and Fort Myers. We also operate a native plant nursery, and mitigation banks in DeSoto, Hardee and Sarasota Counties. Staff includes a multidisciplinary team of biologists, ecologists, wetland scientists, a geologist, and GIS/AutoCAD specialists. Restoration teams include licensed herbicide applicators and field technicians who are proficient in restoration design, evaluation, wetland enhancement, exotic and nuisance plant control, plant supply, and ongoing maintenance.

ENVIRON [BOOTH #19]
WEBSITE:
www.environcorp.com
REPRESENTATIVE: Richard Wenning
(Rjwenning@environcorp.com)

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.

ESA [BOOTH #20]
WEBSITE: www.esassoc.com
REPRESENTATIVE: Gary Oates
(goates@esassoc.com)

ESA is a leading environmental science and planning firm committed to the principles of sustainability. We specialize in environmental and community planning, ecosystem restoration design, technical studies and investigations, environmental impact assessment and documentation, and environmental compliance. The firm has offices in San Francisco, Oakland, Santa Cruz, Petaluma, Woodland Hills, Palm Springs, San Diego, Los Angeles and Sacramento, California; Seattle, Washington; Portland, Oregon; and Orlando and Tampa, Florida. To learn more about ESA, visit our website at www.esassoc.com.

GEC, Inc. [BOOTH #29]
WEBSITE: www.gecinc.com
REPRESENTATIVE: Eddy Carter
(ecarter@gecinc.com)

GEC was established in 1986 in Baton Rouge, Louisiana, as a small engineering consulting firm. It has grown over the years into a firm of national prominence by assembling the talents of a large team of engineering, planning, economic, environmental, and Geographic Information Systems professionals focused on solutions to water and land resources concerns. GEC's success and growth is based on its reputation as a professional organization that provides complete and proficient services from planning to implementation of projects for private and public clients in all parts of the United States. We provide a wide range of expertise for applications to land and water projects. Services are provided separately or in an integrated fashion, depending on client needs. In keeping with the special needs of GEC's clients, our commitment to our clients is to produce high-quality planning and design documents on time, and within budget.

Great Lakes Dredge & Dock Company [Non-exhibiting Sponsor]
WEBSITE: www.gldd.com
REPRESENTATIVE: Bill Hanson
(whhanson@gldd.com)

Great Lakes Dredge & Dock Company is America's premier dredging contractor. To create, maintain and restore a wide variety of port and coastal assets – harbors, waterways, rivers, wetlands, beaches, and storm-eroded shores – we use our sizeable fleet of specialized dredging equipment to excavate and transport the full range of underwater soils, including silts, sands, clays, and rock. We work worldwide.

Gulf South Research Corporation [BOOTH #33]
WEBSITE: www.gsrcorp.com
REPRESENTATIVE: Eric Webb (ewebb@gsrcorp.com)

Silver Sponsor

Gulf South Research Corporation (GSRC) is a woman-owned, SBA certified disadvantaged small business offering multidisciplinary, environmental consulting services to government and corporate clients throughout the U.S. Initially established in 1984, GSRC was purchased in 1993 by its current owner, Ms. Suna Adam Knaus. Based in Baton Rouge, Louisiana, GSRC has grown to now have subsidiary offices in Tucson, Arizona, and Niceville, Florida. GSRC maintains a professional team of staff members with education, training, and experience in various disciplines such as ecology, plant biology, wildlife biology, horticulture, forestry, wildlife management, community relations, and geographic information systems (GIS). Services provided by GSRC include ecosystem restoration planning and implementation, environmental impact analyses, natural and cultural resources surveys, invasive species management, nursery operations, irrigation system design and implementation, native species revegetation, and habitat monitoring and maintenance.

HDR Inc. [BOOTH #32]
WEBSITE: www.hdrinc.com
REPRESENTATIVE: Debra Hempel (debra.hempel@hdrinc.com)

Silver Sponsor

We believe that the way we work adds meaning and value to the world. While we are most well-known for delivering engineering and architecture services – for adding beauty and structure to communities through high performance buildings and smart infrastructure – we provide much more than that.

Our experience with ecosystem restoration includes creating, restoring, protecting, and/or enhancing lakes, rivers, streams, wetlands and salt marshes, oyster reefs and shoreline stabilization, bird rookery islands, submerged aquatic vegetation (seagrass) and sandy beaches for bird and turtle nesting. We recognize that the smallest of details can yield the biggest realizations, and that sometimes the most brilliant solutions begin with the utmost simplicity.

We have partnered with federal, state and local agencies on many of the largest ecosystem restoration efforts in the United States. These types of projects frequently require collaboration from multiple stakeholders, often in the face of competing interests. We have the experience and diverse skill sets to find innovative ways to support our clients' vision for long-term ecosystem restoration and management.

HDR's operating philosophy is to be an expertise-driven firm that delivers tailored solutions through a strong local presence. Our ability to draw upon company wide resources and expertise is a great strength in meeting and exceeding our clients' expectations.

Our 8,500 employees, working in 200 locations around the world, push the boundaries of what is possible each and every day.

KCI Technologies, Inc. [BOOTHS #30 & #31]
WEBSITE: www.kci.com
REPRESENTATIVE: Joe Pfeiffer (Joe.Pfeiffer@kci.com)

Platinum Sponsor

KCI is a 100 percent employee-owned engineering, consulting and construction firm serving clients throughout the eastern and central United States and other locations. Our multi-disciplined services allow us to provide exceptional turn-key expertise to federal, state and local government agencies, as well as institutional and private-sector clients. Operating out of offices in 13 states and the District of Columbia, our professional staff of more than 1,000 offer a full range of documentation, analysis, management, construction, restoration and remediation services centered on protecting and improving the environment. KCI's clients have come to rely on our breadth of expertise in managing natural and water resources as well as associated geospatial data.

Lake Pontchartrain Basin Foundation [BOOTH # 12]
WEBSITE: www.saveourlake.org
REPRESENTATIVE: Theryn Henkel (therynhenkel@gmail.com)

Lake Pontchartrain Basin Foundation (LPBF) was established in response to environmental concerns voiced throughout the Basin. As the public's independent voice, LPBF is dedicated to restoring and preserving the water quality, coast, and

habitats of the entire Pontchartrain Basin. Through coordination of restoration activities, education, advocacy, monitoring of the regulatory process, applied scientific research, and citizen action, LPBF works in partnership with all segments of the community to reclaim the Basin for this and future generations.

Living Shoreline Solutions, Inc. [BOOTH # 13]
WEBSITE:
www.LivingShorelineSolutions.com
REPRESENTATIVE: Thomas J. Brown (TBrown@LivingShorelineSolutions.com)

Silver Sponsor

Living Shoreline Solutions, Inc, designs and manufactures Wave Attenuation Devices (WAD®) These devices are scientifically designed and engineered to PROTECT and RESTORE shorelines, sand dunes, spoil islands, and marine aquaculture. They will work to protect roadways, bridges and critical transportation infrastructure.

WAD® are portable and adjustable to accommodate dynamic wind and wave conditions. They are durable and stable having been exposed to Category 4/5 Hurricanes. WAD® also provide Essential Fish Habitat (EFH).

Louis Berger [BOOTH # 7]
WEBSITE:
www.louisberger.com
REPRESENTATIVE: Raed El-Farhan (relfarhan@louisberger.com)

Silver Sponsor

Louis Berger's Ecosystem Restoration Services Team understands the many benefits of a watershed approach. Our approach focuses on developing strategic watershed-based restoration plans that balance the realities of the future population growth and economic development with the need to sustain increasing strained natural resources. Successfully designing and implementing multifaceted and dynamic environments requires a sound technical foundation and creativity and ingenuity. Our ability to blend science and engineering to recreate nature is a reason we are one of the leading, full-service environmental consulting firms in the United States. With a resource base of more than 5,000 professionals and affiliate employees in more than 90 countries, we can respond to local conditions while providing clients with the world-class scientific and industry experts of a leading global organization.

Moffatt & Nichol [BOOTH #27]
WEBSITE:
www.moffattnichol.com
REPRESENTATIVE: Justin Myers (jmyers@moffattnichol.com)

Gold Sponsor

Moffatt & Nichol's reputation for excellence in the waterfront environment is built on over 70 years of experience with challenging projects. We offer clients a professional and knowledgeable staff of engineers, planners, and scientists who are experts at solving the complex issues that drive coastal, estuarine, and riverine systems. One of the few engineering firms with specialized expertise in these environments, we bring considerable experience in the numerical modeling of the physical processes that challenge projects in these settings in addition to a primary focus on design, engineering, and construction. We routinely develop engineering design criteria for waterfront and marine engineering projects including coastal processes, dredging, beach erosion control, and storm damage protection projects. Our engineers and scientists have expanded their skills to address environmentally acceptable sediment management technologies, environmental dredging, regulatory requirements and highly contaminated sediment removal, remediation, and restoration. We apply state-of-the-practice assessment technologies, models, and predictive technology for visionary solutions to sediment management problems. We have been part of numerous water resources projects to protect and expand these important resources, providing watershed planning & modeling, and stream & wetland restoration design. We have utilized unique techniques and tools for planning and design of ecosystem restoration projects, including the introduction of tidal or fluvial flows through new or redesigned inlets; introduction of mineral sediments and nutrients through diversions; regulation of flows to reduce saltwater intrusion; marsh restoration and vegetation plantings; and shore protection. We have also completed nationally recognized beneficial use of dredged material projects. Our ability to complete planning, detailed analyses, and design of these high visibility projects has been instrumental in their success.

The Nature Conservancy [BOOTH #26]
WEBSITE: www.nature.org
REPRESENTATIVE: Jessica Houston (jessica_houston@tnc.org)

Silver Sponsor

The mission of The Nature Conservancy is to conserve the lands and waters on which all life depends. Our vision is to leave a sustainable world for future generations. Today's society faces unprecedented challenges. Dwindling natural resources, declining economies, a rapidly changing climate and other threats require that all of us begin working together to reach common solutions. More than ever before, we must find innovative ways to ensure that nature can continue to provide the food, clean water, energy and other services our growing population depends upon for survival. Now is a time of opportunity. A time to move conservation from the sidelines of global priorities to the center of the world stage—because human well being depends on a healthy, diverse environment.

National Oceanic and Atmospheric Administration (NOAA) [Non-exhibiting Sponsor]
WEBSITE: www.noaa.gov
REPRESENTATIVE: Melanie Gange (melanie.gange@noaa.gov)

Gold Sponsor

The NOAA Fisheries Office of Habitat Conservation protects, restores, and promotes stewardship of coastal and marine habitat to support our nation's fisheries for future generations.

Our vision is healthy and sustainable habitat that provides a range of benefits for abundant fish and wildlife, commercial and recreational opportunities, and resilient coastal communities that can withstand hurricanes, flooding, and other threats.

Parsons Brinckerhoff [Table Top #1]
WEBSITE: www.pbworld.com
REPRESENTATIVE: Richard Pfingsten (pfingstenrp@pbworld.com)

Silver Sponsor

Parsons Brinckerhoff is a global consulting firm assisting public and private clients to plan, develop, design, construct, operate and maintain critical infrastructure. Our water practice delivers engineeering and advisory services in several core practice areas including: watershed and ecosystem restoration and management, stormwater, hydraulic structures and flood control, wastewater, drinking water, program support, strategic consultancy, and asset management - and is highly attuned to the technical, ecological, and regulatory issues that face the water industry. We help our clients find the right solutions to their challenges through innovative planning and design, deep knowledge of the federal and local regulatory environments, and a unique understanding of the alternative delivery mechanisms available in today's economic climate.

Reef Ball Foundation [Table Top #4]
WEBSITE: www.reefball.org
Representative: Jim McFarlane (mcfarlane@alumni.ufl.edu)

The Reef Ball Foundation is a 501(c) 3 publicly supported non-profit and international environmental NGO working to rehabilitate marine reefs. Our mission is to rehabilitate our world's oceanreef ecosystems and to protect our natural reef systems using Reef Ball artificial reef technologies. Reef Balls are artificial reef modules placed in the ocean to form reef habitat. We have placed Reef Balls™ in 59+ countries and our projects have a global reach of 70+ countries. We have conducted over 4,000 projects and deployed over 1/2 million Reef Balls. Our projects include designed artificial reefs, ground breaking coral propagation and planting systems, estuary restoration, red mangrove plantings, oyster reef restoration, erosion control (often beach erosion), and expert collaboration on a variety of oceanic issues. We work with governments, other NGOs, businesses, schools, research institutes, private individuals and community organizations and emphasize education on preserving and protecting our natural reefs.

RESTORE The Mississippi River Delta [BOOTH #11]
WEBSITE: www.MississippiRiverDelta.org
REPRESENTATIVE: Derek Brockbank (brockbankd@nwf.org)

Silver Sponsor

Restore the Mississippi River Delta is a campaign to reconnect the Mississippi River to its delta to protect people,

wildlife and jobs. Comprised of Environmental Defense Fund, National Audubon Society, National Wildlife Federation, Coalition to Restore Coastal Louisiana, and Lake Pontchartrain Basin Foundation.

Sea-bird Coastal
[BOOTH #17]
WEBSITE:
www.sea-birdcoastal.com
REPRESENTATIVE: Dave Procyk
(dprocyk@hach.com)

Silver Sponsor

Sea-Bird Coastal is the leading innovator of instruments designed for long term deployment and in situ nutrient monitoring in some of the most challenging environments on earth. Our cutting edge technology results from combining the experience and capabilities of Sea-Bird Electronics, WET Labs and Satlantic. Sea-Bird Coastal sensors are designed for deployments ranging from 3 to 12 months. Parameters include conductivity, temperature, depth, optical dissolved oxygen, chlorophyll A, turbidity, CDOM, nitrate and phosphate. Monitoring systems include options for external data collection platforms, real time data delivery and web based data visualization.

Society for Ecological Restoration [BOOTH #1]
WEBSITE: www.ser.org
REPRESENTATIVE:
Leah Bregman (leah@ser.org)

The Society for Ecological Restoration (SER) is a membership based non-profit organization with members in more than 70 nations and 14 regional chapters. SER works to promote ecological restoration as a means of sustaining the diversity of life on Earth and reestablishing an ecologically healthy relationship between nature and culture. 2013 marks the Society's 25th Anniversary which will be celebrated at SER's 5th World Conference on Ecological Restoration (SER2013). SER2013 will draw together more than 1,200 experts from around the world interested in the science and practice of ecological restoration.

Stanley Consultants
[BOOTH #28]
WEBSITE:
www.stanleyconsultants.com
REPRESENTATIVE: Brant Richard
(richardbrant@stanleygroup.com)

Silver Sponsor

Stanley Consultants has a long history of providing successful engineering services to federal, state and local entities. For over 20 years we have provided design services, assessments, studies, and documentation for the maintenance, preservation, restoration, and sustainability of the nation's natural resources, ecosystems, threatened or endangered species, and habitats. Our proven environmental experience includes wildlife and aquatic habitat restoration, water control features, impact statements, wetland permitting and mitigation, environmental management systems, land reclamation and natural resources management. We know you must implement your mission requirements while being sensitive to the needs of the environment, monitoring economic conditions, reaching sustainability goals, and staying on top of changing regulations and service demands. Our professional engineers, designers and environmental scientists do not have preconceived solutions for your complex needs. We listen to your concerns and explore all the options to tailor an engineering solution that will work for you now and in the future.

SWCA Environmental Consultants
[BOOTH #21]
WEBSITE: www.swca.com
REPRESENTATIVE: Jason Shackelford
(jshackelford@swca.com)

Silver Sponsor

Founded in 1981, SWCA provides a full spectrum of environmental services focused on planning, natural and cultural resource management, air quality, permitting, regulatory compliance, water resources and climate change consulting. As an employee-owned firm of scientists, planners, and technical specialists, we combine scientific expertise with in-depth knowledge of permitting and compliance protocols to achieve technically sound, cost-effective solutions for your projects. With more than 27 offices throughout the United States, we offer local

expertise but also are able to rapidly pool resources in order to serve your project needs nationwide. For more information visit: www.swca.com.

University of Maryland Center for Environmental Science [BOOTH #6]
WEBSITE: www.umces.edu
REPRESENTATIVE: Heath Kelsey (hkelsey@ca.umces.edu)

Silver Sponsor

The University of Maryland Center for Environmental Science (UMCES) is the most prominent single institution involved in scientific discoveries about the Chesapeake Bay and its watershed. Although focusing more than 2/3 of its research on this region, the Center's activities are global, involving research from the Arabian Sea to the Yellowstone and from the poles to the tropics.

UMCES' scientists include biologists, ecologists, physicists, chemists, geologists, engineers, and economists who work together in a truly trans-disciplinary community.

University of Wisconsin Press [BOOTH #23]
WEBSITE: www.uwpress.wisc.edu/journals/
REPRESENTATIVE: Toni Gunnison (gunnison@wisc.edu)

Silver Sponsor

The University of Wisconsin Press Journals Division serves a worldwide community of scholars, researchers, and practitioners through the publication of peer-reviewed academic and professional journals in print and electronic form. We are dedicated to the principle that education and research should influence people's lives throughout the world and our non-commercial approach helps contain costs.

Our land management journals include Ecological Restoration, Land Economics, Landscape Journal, and Native Plants Journal. The Press Books Division also publishes a variety of books on restoration related topics including Aldo Leopold, John Muir, Gaylord Nelson, conservation, fishing, and hunting.

Ecological Restoration is a forum for people advancing the science and practice of restoration ecology. It features the technical and biological aspects of restoring landscapes, as well as collaborations between restorationists and the design professions, land-use policy, the role of education, and more. This quarterly publication includes peer-reviewed science articles, perspectives and notes, book reviews, abstracts of restoration ecology progress published elsewhere, and announcements of scientific and professional meetings.

Native Plants Journal is dedicated to dispersing practical information about planting and growing North American native plants for conservation, restoration, reforestation, landscaping, highway corridors, and related uses. Its articles are helpful to growers and planters of North American native plants and contribute significantly to the scientific literature. The second issue of each year includes the Native Plants Materials Directory which provides information about producers of native plant materials in the US and Canada. NPJ began in January 2000 as a cooperative effort of the USDA Forest Service and the University of Idaho, with assistance from the USDA Agricultural Research Service and the Natural Resources Conservation Service.

URS Corporation [BOOTH #5]
WEBSITE: www.urscorp.com
REPRESENTATIVE: Michael Donahue (michael.donahue@urs.com)

Silver Sponsor

URS Corporation is a leading provider of engineering, construction and technical services for public agencies and private sector companies around the world. The company offers a full range of program management; planning, design and engineering; systems engineering and technical assistance; construction and construction management; operations and maintenance; information technology; and decommissioning and closure services. URS provides services for federal, oil and gas, infrastructure, power, and industrial projects and programs.

USDA-Natural Resources Conservation Service [BOOTH #9]
WEBSITE: www.la.nrcs.usda.gov
REPRESENTATIVE: Britt Paul (britt.paul@la.usda.gov)

Silver Sponsor

The USDA Natural Resources Conservation Service (NRCS) works with private landowners and managers through conservation planning and assistance designed to benefit the soil, water, air, plants, and animals and result in productive lands and healthy ecosystems. NRCS is committed to conserving Louisiana's coastal wetlands, and since the inception of the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA), NRCS has served as a member of the multi-agency task force providing oversight and implementation of CWPPRA projects.

The Walton Family Foundation [Non-exhibiting Sponsor]
WEBSITE: www.waltonfamilyfoundation.org
REPRESENTATIVE: Kristin Tracz (ktracz@wffmail.com)

Diamond Sponsor

The Walton Family Foundation promotes environmental solutions that make economic sense for communities and their natural resources. The foundation works to achieve change that lasts by creating new and unexpected partnerships and bringing conservation, business and community interests to the same table to build long-term solutions to big problems. The Walton Family Foundation invested $93 million in environmental initiatives in 2013. A majority of the foundation's grants are made to organizations and programs that pursue lasting conservation solutions for oceans and rivers while also recognizing the role these waters play in the livelihoods of those who live and work nearby. The foundation divides its environmental giving into two initiatives: **Freshwater Conservation**, which works to sustain healthy and resilient communities of both people and wildlife in the Colorado River Basin and along the Mississippi River from its headwaters to the delta; and **Marine Conservation**, which supports initiatives that create economic incentives for sustainable resource management in some of the world's most ecologically rich ocean areas, from Indonesia to Ecuador to the Gulf of Mexico.

The Water Institute of the Gulf [BOOTH #4]
WEBSITE: www.thewaterinstitute.org
REPRESENTATIVE: Nick Speyrer (nspeyrer@thewaterinstitute.org)

Silver Sponsor

The Water Institute of the Gulf, located in Baton Rouge, Louisiana, is a not-for-profit, independent research institute dedicated to advancing the understanding of coastal, deltaic, river and water resource systems, both within the Gulf Coast and around the world. The Institute's mission supports the practical application of innovative science and engineering, providing solutions that benefit society.

By integrating applied research, linking knowledge to action, and building partnerships, The Water Institute drives innovation in coastal restoration and hurricane protection. Through an array of applied research projects, The Water Institute spurs innovation in coastal science and engineering, generating new ideas and evaluating how cutting-edge approaches can make a difference.

Our multidiscipline experts analyze many of the toughest issues facing coastal and deltaic regions in order to better guide policymakers and natural resource managers. The range of expertise of our team members is extensive, including adaptive management, community resiliency, field investigations, coastal engineering, riverine and coastal modeling, as well as monitoring.

Westervelt Ecological Services [Table Top #3]
WEBSITE: www.wesmitigation.com
REPRESENTATIVE: John Wiggington (jwigginton@westervelt.com)

Westervelt Ecological Services (WES) brings together a commitment to stewardship from one of the oldest privately-held forest companies, The Westervelt Company (est. 1884), and an experienced staff of mitigation planners to develop conservation and mitigation banks from coast to coast.

Weston Solutions, Inc.
[Non-exhibiting Sponsor]
WEBSITE:
www.westonsolutions.com
REPRESENTATIVE: Christopher Warn
(chris.warn@westonsolutions.com)

Gold Sponsor

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The history of KCI Technologies can be traced to a small firm operating out of the basement of the co-founder's Baltimore County home in 1955. By its second year, the company took up residence in a proper facility, only to change locations several times over the next decade in a succession of moves that paralleled its growth. In 1977, it was purchased, along with three other architectural and engineering firms, by industrial products conglomerate Walter Kidde & Company. The Kidde acquisitions merged into an engineering subsidiary that came to be known as Kidde Consultants Inc., or KCI. During the 1980s, KCI expanded throughout the Mid-Atlantic, opening new offices in Maryland, Delaware, Virginia and Pennsylvania.

With revenues of approximately $160 million in 2013, the *Engineering News-Record* has consistently placed KCI among the top consulting engineering firms in the country. Today, our roughly 1,000 employee owners operate out of more than 20 offices in 13 states - Delaware, Florida, Georgia, Indiana, Maryland, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Texas, and Virginia - and the District of Columbia.

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Pre-Conference Field Trips

Conducted Monday, July 28, 2014

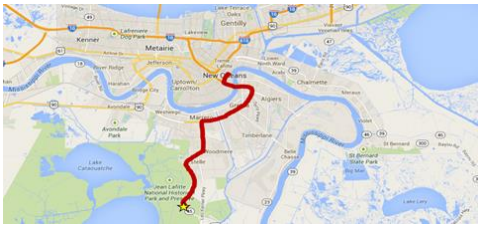
Hurricane Buffers: Going…Going…Gone?

Hurricane Katrina flooded the New Orleans metropolitan area because of the failure of man-made levees and flood walls. But, it was the degradation of the natural ecosystem buffer that allowed so much storm surge to reach the city. The deadly waters came through Lake Borgne into the city directly, or by overwhelming the Orleans Landbridge separating Lake Borgne and Lake Pontchartrain and then into the city. This field trip explored some of the natural and unnatural means Louisiana is using to save itself from future storms.

Diversionary Tactics–Reconnecting the river to the land

Louisiana used to grow at a steady rate. Today it should be 60 square miles bigger than it was in 1930, but instead is 1,900 square miles smaller. Why? Because federal levees have completely walled off the Mississippi River and for the past 80 years Louisiana land has compacted and subsided—sunk—while waiting for new replenishing sediment that never comes. But Louisiana has a plan to mimic Mother Nature by reconnecting the Mississippi to the marsh. During this field trip to the Bonnet Carre and Davis Pond river diversion structures, participants saw this for themselves.

Lafitte Swamp Tour



During this field trip, participants got the chance to experience Louisiana's unique swamp environment without getting their feet wet. Participants got up close and personal with the flora and fauna of the Barataria Preserve of the Jean Lafitte National Historical Park and Preserve directly south of New Orleans—and yes, this is where the famed buccaneer Jean Lafitte headquartered some of his most nefarious enterprises. A guided tour over boardwalk and dirt trails that wind through the preserve offered a taste of Louisiana's wild wetlands with 20,000 acres of bayous, swamps, marshes, forests, alligators, and more than 300 species of birds.

Pre-Conference Workshops

Conducted Monday, July 28, 2014

Workshop on Communication and Strategic Outreach

Overview

Organizations and coalitions frequently must engage the public to meet restoration goals, yet communications budgets are often small or nonexistent. By following some basic communications strategies and using some standard tools, restorations groups can implement creative and, most important, effective communications campaigns, even with limited budgets. Biodiversity Project, a nonprofit environmental communications organization in Chicago, designed this communications workshop to increase limited staff capacity in environmental and conservation fields and make public education and outreach efforts more effective. The full-day workshop walked participants through the process of creating a communications strategy. The process includes forming measurable objectives, understanding an audience, uncovering barriers and writing messages.

FOR MORE INFORMATION, CONTACT:
Jennifer Browning
Bluestem Communications (formerly Biodiversity Project) Chicago, IL
PH: 312.754.0403
EMAIL: *jbrowning@bluestemcommunications.org*
www.bluestemcommunications.org

EPA and ASWM Wetlands Workshop

Restoring the Natural Functions of Wetlands:
"Identifying Common Goals for Advancing Wetland Restoration Success"

The Association of State Wetland Managers (ASWM) and U.S. Environmental Protection Agency (EPA) designed this workshop to: (1) encourage a national discussion on ways for advancing wetland restoration, (2) promote new collaborations to accomplish better wetland restoration projects, (3) develop a common strategy of specific actions, and (4) identify ways in which the EPA and ASWM can assist. The workshop included presentations and discussions focused on hands-on training, data-monitoring, national wetland condition assessment, and future directions and collaborations.

FOR MORE INFORMATION, CONTACT:
Rebecca Dils
US EPA Office of Wetlands, Oceans and Watersheds
PH: 202-566-1378
EMAIL: dils.rebecca@epa.gov

Make A Difference Event

Monday, July 28, 2014 | Chalmette Battlefield, Chalmette, LA

Sometimes you just have to get dirty and fight!

Three cheers for all the volunteers who gathered at the historic Chalmette Battlefield to wage war on Chinese tallow tree saplings and other invasive species that threaten this important historic and ecological site. Just downriver from New Orleans, within Jean Lafitte National Historical Park and Preserve, lies the historic Chalmette Battlefield, site of the War of 1812's famous Battle of New Orleans. Its northern perimeter has become overgrown with invasive plants, which put its ecological biodiversity at risk. Event participants truly did "make a difference" to this site by working together to restore this small wooded ecosystem.

FOR MORE INFORMATION, CONTACT:

Mark Ford
National Park Service, New Orleans, LA
EMAIL: mark_ford@nps.gov

Thank you for your generous support of the Make a Difference Event!

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NCER National Conference on Ecosystem Restoration

SER Society for Ecological Restoration

Biographies

CONFERENCE CO-CHAIRS

Cara Nelson
Chair, Society for Ecological Restoration and Co-Chair, CEER 2014
Department of Ecosystem and Conservation Sciences, University of Montana

Dr. Cara R. Nelson is an Associate Professor in the Ecosystem Sciences and Conservation Department at University of Montana, Director of the University's Ecological Restoration Program, and Chair of the international Society for Ecological Restoration. She received Masters degrees in Forestry and in Conservation Biology from the University of Wisconsin and a PhD in Forest Ecosystem Analysis from the University of Washington. Her research focuses in three primary areas: 1) effects of large-scale disturbance on vegetation, 2) efficacy and ecological impacts of ecological restoration, and 3) conceptual basis for ecological restoration. In addition, Dr. Nelson works to increase awareness about the knowledge and training needed to improve the quality of restoration practice.

Cheryl Ulrich
Co-Chair, CEER 2014
Ecosystem Restoration Department Manager, Dewberry
Organizer, Around the World Restoration - Thursday, July 31, 2014, 9:00am

Ms. Ulrich is a registered professional engineer currently working with Dewberry as their Ecosystem Restoration Department Manager. For the last six years, Ms. Ulrich has focused on Gulf Coast restoration and post Deepwater Horizon Oil Spill efforts. Ms. Ulrich has over 25 years of experience managing large, complex Civil Works projects. Her last decade with USACE was in a senior leadership position working on the Everglades Ecosystem Restoration Program. Her final assignment was to begin creation of a National Center on Ecosystem Restoration on behalf of HQ USACE. This involved working with all the large scale ecosystem restoration programs throughout the US. Ms. Ulrich's skill set brings the valuable perspective of a true implementer of large-scale ecosystem restoration efforts. She has been leading the merger of the SER and NCER worlds since 2007. Ms. Ulrich is currently an At-Large member of SER's Board of Directors and is chairing SER's Science and Policy Committee. Ms. Ulrich has a BS Civil Engineering from University of Florida and a MS Civil Engineering (Emphasis on Coastal and Hydraulics) from University of California at Berkeley.

PLENARY SPEAKERS

Edward E. Belk, Jr.
Director of Programs, U.S. Army Corps of Engineers, Mississippi Valley Division

Mr. Edward E. Belk is the Director of Programs for the Mississippi Valley Division (MVD), U. S. Army Corps of Engineers, and the Mississippi River Commission (MRC). He was selected by the Secretary of the Army into the Senior Executive Service in 2012. The Senior Executive Service is comprised of the men and women charged with leading the continuing transformation of government.

Prior to his current assignment, Mr. Belk was the Chief of Regional Business and the Deputy Director of Programs for MVD. Before moving to MVD, Mr. Belk served as the Deputy District Engineer for Project Management in the Memphis District. He completed two tours in Iraq as the Deputy for Project Management at Gulf Region North District in support of Operation Iraqi Freedom where he served as the senior U.S. Army Corps of Engineers civilian in the seven provinces of northern Iraq and senior advisor to the Commander, Gulf Region North District, with headquarters initially in Mosul and later in Tikrit. He was also assigned to help stand up the Hurricane Protection Office in New Orleans in support of the overall Corps' response to Hurricanes Katrina and Rita. Other previous assignments include Chief of Project Development Branch, Chief of River Engineering and Executive Assistant to the Commander in the Memphis District. Prior to joining the Corps, Mr. Belk worked in the private sector with engineering consulting firms in both Memphis, Tennessee, and Little Rock, Arkansas.

Mr. Belk is a graduate of Christian Brothers University where he earned a Bachelor's degree in Civil Engineering in 1984 and a Master's degree in Engineering Management in 1991. He is also a 1999 graduate of the Army Management Staff College at Fort Belvoir, Virginia.

He is a licensed professional engineer in the state of Mississippi; a past president and director of the Society of American Military Engineers, Memphis Post; and a member of Tau Beta Pi, the national engineering honors organization. Honors and awards include the Lieutenant General J.W. Morris Civilian of the Year for the U.S. Army Corps of Engineers, the Bronze Order of the deFleury, the Global War on Terrorism Service Medal, and two Meritorious Civilian Service Awards.

The Mississippi Valley Division is responsible for water resources engineering solutions in a 370,000-square-mile area, extending from Canada to the Gulf of Mexico and encompassing portions of 12 states. Work is carried out by District offices located in St. Paul, Minnesota; Rock Island, Illinois; St. Louis, Missouri; Memphis, Tennessee; Vicksburg, Mississippi; and New Orleans, Louisiana.

Since 1879, the seven-member Presidentially appointed Mississippi River Commission has developed and matured plans for the general improvement of the Mississippi River from the Head of Passes to the Headwaters. The Mississippi River Commission brings critical engineering representation to the drainage basin, which impacts 41% of the United States and includes 1.25 million square miles, over 250 tributaries, 31 states, and 2 Canadian provinces.

Robert Daoust
Manager, Ecosystem Restoration & Coastal Protection, *ARCADIS*

Mr. Daoust specializes in ecosystem restoration and coastal protection projects as well as climate adaptation studies that focus on sea level rise and storm surge flood risk mitigation. He has more than 18 years of experience in environmental consulting experience with public and private clients, including state, municipal, and federal agencies. He leads ARCADIS' national Ecosystem Restoration and Coastal Protection practice in the United States, part of the firm's Water Management ground, with an emphasis on Florida, New York, Louisiana, and California. His most recent work involves efforts to restore coastal Louisiana and the Florida Everglades support as well as on climate change adaptation to mitigate future flood risk associated with extreme storm events and sea level rise in New York City and south Florida. Mr. Daoust's background is in ecosystem ecology and includes extensive experience in experimental design, implementation and optimization of long-term monitoring as part of adaptive management programs, as well as statistical analysis and interpretation of ecological data. He holds a BS degree in Geography from McGill University in Montreal, Canada and an MS from Florida International University, where he did research on the effects of phosphorus in Everglades National Park.

Kingsley Dixon
SER Regional Representative, Australasia

Kingsley Dixon is Director of Science at Kings Park and Botanic Garden, Perth, and a Visiting Professor at the School of Plant Biology, The University of Western Australia. His life-long interest and passion for native Australian plants has led him to develop a strong multi-disciplinary approach to conservation and restoration of native plants and degraded landscapes. His research team of over 45 research staff and postgraduate students specialise in the ecology, biology, conservation and restoration of species and ecosystems both terrestrial and marine, including a focus on rare plants. This research group has contributed significantly to restoration-focused seed science in Australia, with major advances in developing seed dormancy alleviation techniques (pioneering work in smoke technology), restoration ecology and seed bank technologies for 'at scale' restoration.

Justin Ehrenwerth
Executive Director, Gulf Coast Ecosystem Restoration Council

Justin R. Ehrenwerth serves as Executive Director of the Gulf Coast Ecosystem Restoration Council (Council). Created by the RESTORE Act of 2012 and comprised of the Governors of the five Gulf Coast States and Secretaries from six federal agencies, the Council is responsible for restoring and protecting the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, coastal wetlands and economy of the Gulf Coast.

Prior to joining the Council, Ehrenwerth served as Chief of Staff to the Deputy Secretary of Commerce. As Chief of Staff, he assisted the Deputy Secretary in overseeing issues of management, policy and strategic planning for the Commerce Department which has an annual budget of $8 billion and approximately 47,000 employees.

Previously, Ehrenwerth served as Assistant Counsel to the President in the White House Counsel's Office where he was a member of the Oversight and Litigation group representing the White House in Congressional investigations and advising Federal agencies on oversight matters. In conjunction with the Department of Justice, he worked with Counsel from across the Executive Office of the President on issues related to the Deepwater Horizon Oil Spill Multidistrict Litigation.

During the first two years of the Obama administration, Ehrenwerth served in the Department of Commerce's Office of General Counsel. As Counsel, he assisted with the management of over 325 lawyers in fourteen offices and drafted numerous legal opinions. Ehrenwerth received the National Oceanic and Atmospheric Administration (NOAA) General Counsel's Award for Excellence for work related to the response to the Deepwater Horizon Oil Spill.

Ehrenwerth has held leadership positions on a number of national and statewide political campaigns including the Obama for America and Kerry-Edwards campaigns. He has been active in the non-profit sector having worked at the University of Pittsburgh Institute of Politics, Northern California Grantmakers, and Pennsylvania League of Young Voters. He also served as a Marshall-Brennan Constitutional Literacy Teaching Fellow as well as a Coro Fellow in Public Affairs.

Ehrenwerth is a summa cum laude graduate of Colby College and holds an MA in Philosophy, Politics and Economics from the University of Oxford and a J.D. from the University of Pennsylvania Law School.

Vera Lex Engel
SER Regional Representative, Latin America/Caribbean

Vera has a B.S. in Forestry (University of São Paulo USP,1985), an M.S. in Forest Science (University of São Paulo, 1989) and a Ph.D. in Ecology (University of Campinas, 2001). She is currently a Lecturer at São Paulo State University UNESP, Brazil; she teaches undergraduate courses in forest engineering and postgraduate courses in forest science. She has expertise in forest ecology and restoration, specifically regeneration and dynamics of tropical forests, management of mixed forest plantations and agroforestry. Vera has been active in SER since 1997 and is a member of several other national and international scientific organizations, including the Brazilian Ecological Society (SEB), International Society of Tropical Foresters (ISTF), and Brazilian Ecological Restoration Network (REBRE). She serves as a referee for several high impact scientific journals and also is the Deputy Coordinator of IUFRO's (International Union of Forest Research Organizations) Research Group on Restoration of Degraded Lands. She has served as a Consultant to Brazil's Environmental Ministry, Directory of Forests, for developing the Native Species Silviculture and Agroforestry National Plan (2005); she was a member of the Scientific Consulting Board of the Institute of Forest Research and Studies, Cooperative Program in Silviculture of Native Species and the Centre of Forest Research; and she was the Local Coordinator of BRAFRAGRICAPES Project, a bilateral agreement between Brazil and France that aimed to increase interchange among students and professors. Vera is a Level 2 Research Productivity Fellow, National Council for Scientific and Technological Development. Last year, she was a visiting academic fellow at University of Queensland, Brisbane, Australia.

Gerald Edward Galloway
Glenn L. Martin Institute Professor of Engineering, University of Maryland

Gerald E. Galloway, PE, PhD is a Glenn L. Martin Institute Professor of Engineering, Department of Civil and Environmental Engineering and an Affiliate Professor, School of Public Policy, University of Maryland, College Park, Maryland, where his focus is on water resources policy, resilience, and disaster risk management. He also serves as a consultant to several international, federal, state and non-governmental agencies and has been involved in water projects in the US, Europe, Asia and South America. He recently chaired a National Research Council (NRC) Study on Levees and the National Flood Insurance Program and is currently a member of the US National Academies' Risk, Resilience and Extreme Events Roundtable and the Louisiana Governor's Advisory Commission on Coastal Protection, Restoration and Conservation. He has been a consultant to The Nature Conservancy on its Yangtze River Program and the WWF on its China Flood Risk Management program. He is a member of the National Academy of Engineering and the National Academy of Public Administration. He served for 38 years in the US Army, retiring as a Brigadier General.

Kyle Graham
Executive Director, Coastal Protection and Restoration Authority (CPRA), Baton Rouge, LA

Kyle Graham is the Executive Director for Louisiana's Coastal Protection and Restoration Authority, the state office responsible for implementing Louisiana's Comprehensive Master Plan for a Sustainable Coast and integrating hurricane protection, storm damage reduction, flood control, and the associated infrastructure construction and maintenance of coastal protection and restoration projects.

Before working for the State of Louisiana, Mr. Graham earned bachelor's and master's degrees in biology from the University of North Carolina and Appalachian State University, worked as a wetland scientist restoring streams and wetlands, and oversaw the preparation and management of environmental documentation and permitting impacts.

Kirk Hanlin
Assistant Chief Natural Resources Conservation Service (NRCS) USDA

Kirk Hanlin Assistant Chief Natural Resources Conservation Service (NRCS) USDA Secretary Tom Vilsack appointed Kirk Hanlin Assistant Chief of NRCS in July 2013. As Assistant Chief, he is central to the agency's leadership team providing oversight and guidance for implementation of NRCS programs which help protect the environment, preserve our natural resources and improve agricultural sustainability through voluntary, private-lands conservation. NRCS has a staff of 11,500 employees across the country and a budget of approximately $4 billion.

Born in Keokuk, Iowa and raised in Hancock County, Illinois, Kirk Hanlin grew up on the banks of the Mississippi River in a family with generations of both farmers and towboat captains giving him a deep appreciation for protecting the land and the river for future generations. To pay for college he spent summer and winter breaks working on barges and towboats traveling from Minneapolis to New Orleans. He earned an AA from South East Iowa Community College, and a BA in Political Science with a Minor in Communications at Western Illinois University.

For more than 30 years Hanlin has worked in management for State and Federal Government, and the private sector. Hanlin served eight years in the Clinton Administration at the White House, and was appointed by President Bill Clinton in 1997 as a Special Assistant to the President working directly with President Clinton briefing him on a daily basis on issues related to events both domestically and internationally. Hanlin was responsible for coordination and ongoing communication with all levels of individuals and groups related to the President's daily activities including career, elected, and appointed individuals and the highest ranking individuals from the National Security Council, State Department, United States Secret Service, White House Military office, all other White House Offices, Cabinet agencies and Members, Members of Congress, Governors and local civic leaders.

Following his White House service Hanlin served in the private sector first as Vice President and Senior Advisor to the CEO of UAI Inc. a leading software company. He then served as Executive Vice President and Senior Advisor to the CEO of EnerGenetics Energy LLC (EGE) an advanced renewable energy and biofuel solutions company. While at UAI, he developed and directed business and communications strategies and oversaw day-to-day business operations. Hanlin has built strategic business alliances and

partnerships throughout the U.S. and abroad working with more than 150 clients in 30 states, with local, state and federal governments and partner organizations developing, managing and advocating for emergency management solutions, electrical power grid and gas distribution applications and water and waste water applications. As corporate vice president, he worked directly with the Department of Housing and Urban Development, Department of Homeland Security, and the Center for Disease Control.

Hanlin maintains homes in Arlington Virginia, and on the Mississippi River Flyway in Nauvoo Illinois.

Tanner Alston Johnson
Director, Gulf Environmental Benefit Fund, National Fish and Wildlife Foundation

A native of Baton Rouge, Louisiana, Tanner A. Johnson has worked for more than a decade on coastal conservation and restoration policy at the federal, state and local levels. After earning his law degree from the Paul M. Hebert Law Center at Louisiana State University, Tanner developed a focus on Louisiana's imperiled coast in public service as Legislative Director to U.S. Senator Mary L. Landrieu and aide to Governor Kathleen Blanco. His work in these positions contributed to the development and unanimous adoption of Louisiana's 2007 coastal master plan, entitled *Integrated Ecosystem Restoration and Hurricane Protection: Louisiana's Comprehensive Master Plan for a Sustainable Coast*. In the wake of the 2010 Deepwater Horizon Oil Spill, Tanner helped author and lead the Congressional staff level negotiation of The Resources and Ecosystems Sustainability, Tourist Opportunities and Revived Economies of the Gulf Coast States Act, the RESTORE Act, which dedicates 80 percent of civil and administrative Clean Water Act penalties paid by those responsible for the 2010 gulf oil disaster to Gulf Coast restoration. In 2013, Tanner was appointed by Governor Bobby Jindal to the Governor's Advisory Commission for Coastal Protection, Restoration and Conservation. Tanner is a graduate of Spring Hill College in Mobile, Alabama and Catholic High School of Baton Rouge.

Gary LaGrange
President and CEO, Port of New Orleans

Gary LaGrange has served as President and Chief Executive Officer of the Port of New Orleans since 2001. Under LaGrange's direction the Port made great expansions in spite of great adversity. During his tenure, the Port opened new, state-of-the art container, cruise and refrigerated terminals. LaGrange's leadership brought the Port of New Orleans back into operation two weeks after Hurricane Katrina, the most extensive natural disaster in U.S. history. With over a decade of investment and expansion, the Port of New Orleans is now recognized as the #1 Port for logistics in America.

LaGrange serves on the Boards and Executive Committees of the Waterways Council, Inc., and National Waterways Conference where he is a past President. He also serves on the Board of the Gulf Ports Association of the Americas. He serves on the Executive Committee of the Transportation Research Board.

A past Chairman, Mr. LaGrange still serves as a member of the American Association of Port Authorities Board of Directors. He is also past Chairman and past President of the Gulf Intracoastal Canal Association.

He is a member of the Committee of 100 Louisiana. He serves on the Federal Reserve Bank of Atlanta's Advisory Council on Trade and Transportation Committee, and the U.S. Department of Transportation Maritime Administration's Port Subcommittee.

He was named the Maritime Person of the Year by the Propeller Club of New Orleans in 2003 and Maritime Person of the Year by the Propeller Club of the Port of Gulfport in 2001. He was named the "Man of Steel" by the American Institute for International Steel (AIIS).

Gary is also a member of the National Rivers Hall of Fame in Dubuque, Iowa and named to the Hall of Fame by the International Maritime Association at the United Nations in New York.

In 2012, he was the recipient of the Transportation & Infrastructure Summit Excellence in Maritime Transportation Award and the C. Alvin Bertel Award in recognition for outstanding contributions to the advancement of the Greater New Orleans port area. Mr. LaGrange also received the 2012 International Achievement Award.

In 2013, he was recognized by the University of Southern Mississippi for his support of the Center for Logistics, Trade and Transportation and is a 2013 Young Leadership Council Role Model Award winner.

Before taking leadership at the Port of New Orleans, LaGrange served as the Executive Director of the Mississippi State Port Authority in Gulfport, Ms., the Port of South Louisiana and the Port of West St. Mary.

LaGrange attended Louisiana State University. He received his B.A. in Geography/Economics from the University of Louisiana at Lafayette. He also completed a Master of Arts in Urban Planning, with honors from USL, in addition to having earned the Professional Port Manager Certification (PPM) from the American Association of Port Authorities.

Dan Mecklenborg
Senior Vice President and Chief Legal Officer, Ingram Barge Company

Dan Mecklenborg joined Ingram Barge Company in 1996, as Vice President, General Counsel and Secretary, and was promoted to Senior Vice President and Chief Legal Officer in 2002. He is responsible for the company's Legal and Claims, Safety, Training and Environmental departments, the company's Governmental Affairs function, and Custom Fuel Services.

Dan has extensive experience in corporate law, including governance and compliance, mergers and acquisitions, environmental compliance, employment and labor law, admiralty law, and negotiating and drafting business agreements.

He has been actively involved in civic and professional organizations throughout his career. In 2003 he completed a four-year term as a Member and then Chairman of the Inland Waterways Users Board. He rejoined the Users Board in 2013 as Ingram's representative. Dan currently serves on the Board and Executive Committee of Waterways Council, Inc. and was its Chairman from 2007 through 2009. Since 2010, Dan has served on the Board of The Nature Conservancy's Great Rivers Partnership (GRP). He also serves on the Steering Committee for America's Watershed Initiative.
A native of Cincinnati, Ohio, Dan received his Bachelor of Arts degree in economics from the University

of Dayton in 1977 and his Juris Doctor degree from Salmon P. Chase College of Law in 1981. He is licensed to practice law in both Tennessee and Ohio.

R. King Milling
CEER 2014 Honorary Chair;
Chair, Louisiana Governor's Advisory Commission on Coastal Protection, Restoration and Conservation; Board Member, National Fish and Wildlife Foundation; and Chair, America's WETLAND Foundation

A lifelong resident of New Orleans, R. King Milling is the Chairman of the America's WETLAND Foundation. He also chairs the Governor's Advisory Commission on Coastal Protection, Restoration and Conservation and serves as a member of the Coastal Protection and Restoration Authority of Louisiana.

Milling is a member of the Louisiana State Bar Association and the American Bar Association, and he serves as a member of the Tulane Law School Dean's Advisory Board and on the board of directors of the New Orleans Branch of the Federal Reserve Bank of Atlanta. He also serves on the boards of the National Fish and Wildlife Foundation, LSU Health Sciences Center, Dillard University, and the Greater New Orleans Education Foundation.

He was elected Director of Whitney National Bank in 1978 and as Director of Whitney Holding Corporation in 1979. He served as President of Whitney
National Bank and Whitney Holding Corporation from 1984 until April 2007 and as Vice Chairman of the Board of Directors from April 2007 until December 2008.

Milling is a graduate of Washington & Lee University and Tulane University.

Samira Omar Asem
SER Regional Representative, Asia

Dr. Samira Omar Asem joined the Kuwait Institute for Scientific Research (KISR) in 1973. Dr. Omar Asem attained her Ph.D. in Wild land Resource Sciences from the University of California, Berkeley in 1990 and M.S in Range Management from the University of California, Berkeley in 1979. Her B.Sc. is in Botany and Chemistry from the University of Kuwait in 1972.

Dr. Omar Asem has more than 40 years' experience in management and leadership of integrated applied research science in plant ecology, biodiversity conservation, arid land ecosystem restoration, inventory of natural resources, and sustainable land-use planning.

From 2001 to 2013 she was Director of Food Resources and Marine Sciences Division (FRD) responsible for management of six programs: Biotechnology, Arid Land Agriculture Production, Biodiversity for Terrestrial Ecosystem, Food and Nutrition Production, Ecosystem Based Management for Marine Environment, and Aquaculture.

Dr. Omar Asem is presently the technical Program Director of the Kuwait Environmental Remediation Program awarded by the United Nations Compensation Commission (UNCC). The program includes remediation and restoration of war-damaged terrestrial, coastal and marine ecosystems.

Dr. Omar Asem has national, regional and international recognitions and has been affiliated to many local and international organizations. She is member of the Board of Directors for the Society for Ecological Restoration (SER) for Asia Region, member of the Executive Board for the Arab States in the Organizations for Women in Science for the Developing World (OWSD) and Regional Councilor for West Asia Region (WANA) of the International Union for Conservation of Nature (IUCN). Dr. Omar Asem has published and contributed to more than 100 publications and participated in 108 local, regional and international conferences, workshops and symposia.

K. Ramesh Reddy
Chair, University of Florida/IFAS Soil and Water Science Department

Dr. K. Ramesh Reddy is a Graduate Research Professor and Chair of 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, 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 from various disciplines, postdoctoral associates and visiting scientists. Examples of teaching, research, and extension activities of the WBL can be seen at the web site: wetlands.ifas.ufl.edu. Dr. Reddy has published 350+ refereed journal articles and book chapters, edited 5 books, and authored one text book. Dr. Reddy 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); and Gama Sigma Delta International Award (2006).

Lynn Scarlett
Managing Director for Public Policy, The Nature Conservancy

Lynn Scarlett currently serves as Managing Director of Public Policy at The Nature Conservancy where she oversees worldwide government relations and public policy efforts. Lynn joined the Conservancy in 2013, bringing deep experience in environmental and conservation policy, both in and outside government. She served two terms in the U.S. Interior Department under President George W. Bush, first as Assistant Secretary for Policy, Management and Budget and then as Deputy Secretary and Chief Operating Officer. Before her government service, she spent over 15 years at the Reason Foundation, a leading public policy research institute, where she served as Research Director, Vice President for Policy, and finally as President and Executive Director. Most recently, she has been co-director of the Center for Management of Ecological Wealth at Resources for the Future and a Visiting Lecturer at the Bren School of Environmental Science and Management at the University of California at Santa Barbara, her *alma mater*. Lynn has led or served on numerous government and non-government task forces and working groups, including service as a lead author on the U.S. National Climate Assessment.

Robert R. Twilley
Executive Director, Louisiana Sea Grant College Program
Professor, Oceanography and Coastal Sciences

Dr. Twilley is Executive Director of Louisiana Sea Grant College Program and professor in the Department of Oceanography and Coastal Science at LSU. Presently, Dr. Twilley serves as President-Elect of Coastal Estuarine Research Federation. He has been a Distinguished Professor at both LSU and UL Lafayette. In the last several years, Dr. Twilley has served in administrative capacities in higher education including Vice President for Research, Associate Vice Chancellor of Research and Economic Development, and Director of the Wetland Biogeochemistry Institute. He is founder of the LSU Coastal Sustainability Studio and developed the UL Lafayette Center for Ecology and Environmental Technology. Most of Dr. Twilley's research has focused on coastal wetlands both in the Gulf of Mexico, throughout Latin America, and in the Pacific Islands. Dr. Twilley has published extensively on wetland ecology, global climate change, and has been involved in developing ecosystem models coupled with engineering designs to forecast the rehabilitation of coastal and wetland ecosystems. He received his BS and MS from East Carolina University, PhD from University of Florida and post-doctoral studies were at Horn Point Laboratory at University of Maryland Center for Environmental Studies.

PLENARY SESSION ORGANIZERS/MODERATORS

Don Boesch
President, University of Maryland Center for Environmental Science
Organizer, Gulf Coast Ecosystem Restoration – RESTORE – Deepwater Horizon - Friday, August 1, 9:00am

Donald F. Boesch is a Professor of Marine Science and President of the University of Maryland Center for Environmental Science and University System of Maryland's Vice Chancellor for Environmental Sustainability. He earned his B.S. in biology at Tulane University and Ph.D. in oceanography at the College of William and Mary. Don has conducted ecological and oceanographic research on coastal and continental shelf ecosystems along the Atlantic Coast, and in the Gulf of Mexico, eastern Australia, and the East China Sea. He is a past-chairman of the Ocean Studies Board of the National Research Council was appointed by President Obama to the National Commission on the BP Deepwater Oil Spill and the Offshore Drilling. Don has forty years of experience in the application of science in ecosystem restoration, including in the Chesapeake Bay, the Florida Everglades and Coastal Louisiana.

Steve Cochran
Director, Mississippi River Delta Restoration, Environmental Defense Fund
Organizer, Advancing Policy for Ecosystem Restoration - Friday, August 1, 10:15am

As the Director for Environmental Defense Fund's Mississippi River Delta Restoration project, Steve Cochran works to restore the natural functioning of the river while addressing the needs and health of southern Louisiana's diverse communities and economic infrastructure. With local, state and federal attention turning towards this delta, executing a strategy for its timely and responsible large scale restoration is crucial. In addition, Steve works within Louisiana and nationally to encourage communities, economic interests and political leaders to see delta restoration as a fundamental priority to the nation.

Steve spent two years as Executive Director of the Lake Pontchartrain Basin Foundation in New Orleans, Louisiana, and seven years with Louisiana Congressman and then Governor Buddy Roemer. He served as Legislative Director in D.C., then Field Director, and ultimately Chief of Staff to the Governor.

In his prior role as Vice President of Climate and Air at Environmental Defense Fund, Steve Cochran managed EDF's domestic and international efforts to reduce greenhouse gases and air pollution. Steve served as the Executive Vice President of our 501 c(4) organization, the Environmental Defense Action Fund (EDAF), and was the Political Director of EDAF's Political Action Committee. He formerly served as the director of the National Climate Campaign. Prior to that, Steve managed EDF's media, legislative and Internet advocacy work and served as Environmental Defense's legislative director.

Val Marmillion
Managing Director, America's WETLAND Foundation
President and Founder, Marmillion + Company
Organizer, Mississippi River Restoration - Wednesday, July 30, 9:00am

Valsin A. Marmillion has managed the work of the America's WETLAND Foundation (AWF) since 2002. AWF serves as a respected Gulf Coast voice for preserving the environmental, economic and community assets of the region. By providing a balanced forum for consensus building, AWF has been recognized for its relentless pursuit of shared solutions to restore the coast and to bring about significant public engagement and political will.

Marmillion has a long history of service to state and local governments, foundations and nonprofits, having provided strategic planning, communications, media outreach, branding and public awareness campaigns in this arena for more than 25 years.

Prior to establishing Marmillion + Company in 1989, Mr. Marmillion was a partner in the public relations and public consulting firm Hunt/Marmillion and Associates, which was later acquired by Ogilvy and Mather Worldwide.

Prior to forming Hunt/Marmillion, he was manager of public information for Atlantic Richfield Company (ARCO) in Los Angeles, CA. Before joining ARCO, he was in congressional service in Washington, D.C., where he served on the staffs of the late Senator Allen J. Ellender, Senator Elaine S. Edwards, Congressman Burt Talcott and as Chief of Staff for then congressman, now former senator, John B. Breaux.

Under Mr. Marmillion's leadership MCo has emerged as one of the nation's premier marketing and communications firms with offices in Los Angeles, CA.; Denver, CO.; New Orleans, LA.; and Fort Lauderdale, FL. Current and recent clients include the America's WETLAND Foundation, the Indianapolis Children's Museum, Kip Holden for Mayor, Committee for the Future of East Baton Rouge, J. Paul Getty Trust, the National Endowment for the Arts, the National Conference of State Legislatures, the National Association of Counties, the John F. Kennedy Center for the Performing Arts and UCLA.

He has led several ambitious public education campaigns for various clients: American Psychological Association (Talk to Someone Who Can Help), UCLA (Where Great Futures Begin), National Association of Counties (Counties Serve America), the National Endowment for the Arts (The American Canvas), National Association of Elementary School Principals (Our Children, Our Schools, Our Future), National Conference of State Legislatures (The Forum for America's Ideas), the J. Paul Getty Trust for the Arts Education Partnership (Arts Literacy for Changing America), and the State of Louisiana (America's WETLAND: Campaign to Save Coastal Louisiana).

Mr. Marmillion has served as Executive Producer for numerous programs including several features developed for Discovery and The Learning Channel. His production work has garnered several awards including: the prestigious Pollie Award from the American Association of Political Consultants and the Platinum Award from the League of American Communications Professionals.

Mark R. Wingate, PE
Chief, Projects and Restoration Branch, USACE
Organizer, Opening Plenary Session - Tuesday, July 29, 9:00am

Mr. Mark Wingate serves as the Chief for Projects and Restoration Branch with the United States Army Corps of Engineers (USACE), New Orleans District. He joined USACE in 1993 and is responsible for the management and execution of a variety of Civil Works programs, projects and studies including Section 408 permits for Lower MS River Diversions, the Louisiana Coastal Area Ecosystem Restoration Program, MS River and Tributaries Program and Continuing Authorities Program. He graduated from the University of New Orleans in 1989 with a Bachelor of Science in Civil Engineering and is a licensed Professional Engineer in the State of Louisiana.

Plenary Session Descriptions

Tuesday, July 29, 2014 | [9:00am - 10:00am]
Opening Plenary

Plenary Speakers:

- **K. Ramesh Reddy**, Chair, University of Florida/IFAS Soil and Water Science Department
- **Cara Nelson**, Chair, Society for Ecological Restoration; Co-Chair, CEER 2014; and Department of Ecosystem and Conservation Sciences, University of Montana
- **Mitch Landrieu**, New Orleans Mayor – *Invited*
- **R. King Milling**, Honorary Chair, CEER 2014; Chair, Louisiana Governor's Advisory Commission on Coastal Protection, Restoration and Conservation; Board Member, National Fish and Wildlife Foundation; and Chair, America's WETLAND Foundation
- **Cheryl Ulrich**, Co-Chair, CEER 2014; and Ecosystem Restoration Department Manager, Dewberry

Session Moderator:

- **Mark Wingate**, CEER 2014 Co-Chair; Program Committee, USACE, New Orleans District

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Wednesday, July 30, 2014 | [9:00am - 10:00am]
Mississippi River Restoration

Following five leadership forums convened by the America's WETLAND Foundation for its Big River Project, this session will establish the context for action required to successfully manage the Mississippi River system and ensure the integrity of its natural resources and assets. As one of our Nation's most important natural resources, the Big River is the answer to much of what challenges us, but its future potential depends on providing an aggressive approach to its stewardship. In this session, some of the foremost leaders with River interests will discuss: (1) why the Mississippi River territory is essential to all living things, (2) how stains of the Mississippi River will lead to loss of ecosystem values that the River provides, (3) how to imagine a new view of water management in America that includes consideration of ecosystem sustainability challenges, which is essential if we are to have an environmentally sound and economically prosperous asset in the River, and (4) how federal programs, such as programs for healthy soils incentives for farmers, can result in a flowing river that is less toxic and problematic to river's end hypoxia challenges that threaten Gulf Coast waters, impacting marine life and the states along the coast.

Plenary Speakers:

- **Edward E. Belk, Jr.,** Director of Programs, U.S. Army Corps of Engineers, Mississippi Valley Division
- **Gary LaGrange**, President and CEO Port of New Orleans
- **Robert Twilley,** Executive Director, LSU Sea Grant College Program
- **Homer Wilkes**, Acting Associate Chief, Natural Resources Conservation Service (NRCS)

Session Moderator:

- **Val Marmillion**, America's Wetland Foundation

Thursday, July 31, 2014 | [9:00am - 10:00am]

Around the World Restoration

In this session, SER's international leaders will discuss restoration in an international context, highlighting restoration achievements and approaches in their global regions. The SER Science and Policy Committee's (SPC's) mission is to develop and consider policy and scientific matters of direct relevance to SER members and to the science, politics, economics, business and practice of ecological restoration worldwide. SER impacts global policy directly through ongoing involvement in global restoration efforts, specifically with the International Union for Conservation of Nature (IUCN), United Nations Convention to Combat Desertification (UN-CCD) and the United Nations Convention on Biological Diversity (UN-CBD). The session will conclude with a discussion of SER's new large-scale ecosystem restoration section (LERS) which provides a forum to collaborate internationally.

Plenary Speakers:

- **Kingsley Dixon**, SER Regional Representative, Australasia
- **Samira Omar Asem**, SER Regional Representative, Asia
- **Vera Lex Engel**, SER Regional Representative, Latin America/Caribbean
- **Robert Daoust**, on behalf of Kris Decleer, SER Regional Representative, Europe

Session Moderator:

- **Cheryl Ulrich**, CEER 2014 Co-Chair, and Ecosystem Restoration Department Manager, Dewberry

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Friday, August 1, 2014 | [9:00am - 10:15am]

Gulf Coast Ecosystem Restoration – RESTORE – Deepwater Horizon

This discussion will focus on restoration plans and programs such as RESTORE, NRDA, the Gulf Environmental Fund and the Louisiana State Master Plan. Speakers will consider: (1) how these components will work together to maximize comprehensive ecosystem restoration, (2) what challenges the community of practice represented at the conference should work to address, and (3) how we will account for outcomes, both technically and to the public, in truly adaptive execution—a question that former Senator Bob Graham emphasized repeatedly in deliberations of the Oil Spill Commission. Following brief opening presentations by each panelist, the session's moderator, Don Boesch, will facilitate a discussion among the panelists and with the audience.

Plenary Speakers:

- **Justin Ehrenwerth**, Executive Director, Gulf Coast Ecosystem Restoration Council
- **Kyle Graham**, Executive Director, Coastal Protection and Restoration Authority (CPRA), Baton Rouge, LA
- **Tanner Johnson**, Gulf Environmental Benefit Fund Director (Louisiana and Texas)

Session Moderator:

- **Don Boesch**, President, University of Maryland Center for Environmental Science

Friday, August 1, 2014 | [10:15am - 11:30am]
Advancing Policy for Ecosystem Restoration Funding

This session will focus on how to recalibrate systems and levels of funding available for ecosystem restoration. The defining characteristic of restoration funding over the last two decades has been post-disaster response. The need for strategies for responding to climate and other environmental changes through restoration and adaptation far surpass any estimate of the resources available for such efforts. Systems based approaches to addressing these issues are preferred, but individual project funding is dominant. Even where integrated planning is in place, financial needs far outstrip government resources. This plenary discussion is intended to bring together experts who can provide provocative ideas that might lead to new approaches to both systems and financing of ecosystem restoration initiatives. Speakers will reflect on the following questions: (1) How do we fund restoration work above and beyond current federal and state levels, (2) How do we create systems that allow use of funding provided by non-profits and for profit entities, in addition to federal and state funds, (3) How do we implement valuation of ecosystem services, and (4) How do we concretely demonstrate and communicate restoration benefits to stakeholders and communities?

Plenary Speakers:

- **Gerald Edward Galloway**, Research Professor, University of Maryland, Glenn L. Martin Institute Professor of Engineering
- **Dan Mecklenborg**, Senior Vice President and Chief Legal Officer, Ingram Barge Company
- **Lynn Scarlett**, Managing Director for Public Policy, The Nature Conservancy and Former Deputy Secretary of the Department of the Interior

Session Moderator:

- **Steve Cochran**, Environmental Defense Fund

Friday, August 1, 2014 | [11:30am - 11:45am]
Closing Plenary: Recognition & Awards Ceremony

Session Moderator:

- **Robert Daoust**, ARCADIS, Chair, Nomination and Awards Committee

Setting the Context for the Closing Plenary
Advancing Policy for Ecosystem Restoration Funding

Defining the Scope of the Problem

In 2010, President Obama identified eight key watersheds or ecosystems of national significance: Chesapeake Bay, the Florida Everglades, the Gulf Coast, the Great Lakes, the Upper Mississippi River, the Sacramento-San Joaquin River Delta, the Columbia-Snake River System, and Puget Sound. This past May, the Department of Agriculture echoed those 2010 designations by naming eight "Critical Conservation Areas" across the country, including the Mississippi River Basin, Chesapeake Bay Watershed, Great Lakes Region, Colorado River Basin, Longleaf Pine Range, Columbia River Basin, Prairie Grasslands and California Bay Delta. The level of this national commitment to conservation and restoration, on paper, far exceeds the reality of the amount and means by which we commit federal resources toward these efforts through our traditional federal funding process (such as using the Water Resources Reform and Development Act project authorizations, US Environmental Protection Agency or US Department of Agricultural grants, or other individual project appropriations.) In short, restoration needs and requirements, especially for adapting to climate change through improved resilience and transformation, far surpass any estimates of the resources currently available for such efforts. Individual project funding over systems-based approaches dominate. Even where integrated planning is in place, financial needs far outstrip government resources. The defining characteristic of restoration funding over the last two decades has been after-the-fact disaster response.

Our nation must have a clearer framework for sustainable management of our ecosystems. And we must develop better, more dependable streams of funding for the work. After people, water is our most critical and strategic resource. Since the combined threats of aging infrastructure, climate change and population growth are so significant, the nation can no longer afford to postpone action.

- Counting only the counties along shorelines of the oceans or the Great Lakes, one finds 39% or 123 million of the overall US population living in less than 10% of the nation's total land area. Expanding this to include coastal watershed counties (just under 20% of the land area), our coastal population rises to 52% or 164 million; all of whom are in harm's way.

- It's hard to imagine another natural catastrophe on the scale of Hurricane Katrina. The economic cost estimates from Katrina range upward of $200 billion, or over 1% of US gross domestic product. Climate change may affect extreme storm intensity and frequency, with recent events such as Hurricane Sandy potentially becoming more common. Moreover, sea level rise is a growing threat to the country. With 53% of the county's population living near major water bodies, both people and infrastructure increasingly lie in harm's way.

Risk reduction and resiliency must be dealt with today, not tomorrow. It is imperative we initiate a focused effort to articulate a strategy to sustain the nation's water resources and ecosystems. Our nation's future growth and prosperity will depend upon the sustainable management of our environment.

Our nation's planning and regulations are fragmented from top to bottom, which results in less than optimal cost and effectiveness. The Federal government has more than 20 agencies responsible for understanding and managing water resources. As such, there is no clear sense of the Federal role

and little understanding of the gaps and overlaps among Federal agencies. Furthermore, each state and many Native American tribes have one or more agencies responsible for managing water resources within their respective areas of jurisdiction. Existing governance structures and processes appear to have exacerbated already complex challenges in which lines of authority are not clear or organized for timely problem solving.

A successful strategy must take an integrated approach, recognizing that our water and natural resources are inextricably tied to other systems that are already part of the built and social environment, such as energy generation, land-use, and economic development. Examples of this approach are cited in "Economic Impacts of Climate Change" (RITES Journal) and "Green and good? The investment performance of US environmental mutual funds" (Journal of Business Ethics.)

Climate Change – Need to Incorporate Climate Adaptation with Ecosystem Restoration Efforts

The range of climatic changes anticipated from rising sea levels to the potential for stronger and more frequent storms and extreme temperature events will have real impacts on our natural environment, as well as human-made infrastructure and their ability to contribute to economic activity and the quality of life.

- All sectors of the economy – agriculture, energy and transportation – will be affected.
- Essential infrastructures that provide us reliable services and high standards of living – water supply and waste water treatment – will be impacted.
- Ecosystems, on which our quality of life relies, will suffer.

The costs of climate change will place major strains on public sector budgets, personal income and job security. The dominant benefit methodology and incremental approach to restoration and adaptation must be changed. A new methodological approach, perhaps using portfolio choice theory (i.e. how rational investors will use diversification to optimize their portfolios and how a risky asset should be priced or valued) needs to be explored. Tools from the theory of investment and finance under risk and uncertainty should be considered. We should fully engage around opportunities to value and price services ecosystem services. In short, we must begin to avoid the high costs of poor focus and inaction and make the programmatic investment in natural, human-made and social capital necessary to adapt and prosper in our changing world.

Sense of Urgency

Large-scale ecosystem restoration programs provide both the opportunity and the necessity to collaborate – among Federal agencies, with states, local and tribal governments, private industry, non-profit organizations and a wide variety of other stakeholders We can leverage these potential partnerships to construct an proactive implementation approach to managing the risks we are facing, including the possibilities of funding mechanisms that encompasses the entire community. But we must begin to move away from the reactive, post disaster that characterizes our current approach to large scale protection and restoration.

Closing Plenary Panel Discussion

Given these sets of challenges for our industry, the closing panel will bring together experts who can provide provocative ideas and thoughts based on an understanding that, in broad terms, both our systems and levels of funding for ecosystem restoration need major recalibration.

The speakers will provide thoughts and perspectives on the following basic questions:

- How do we fund restoration work above and beyond current Federal and State levels;
- How do we create systems that, in addition to Federal and State funds, allow use of revenue sources provided by non-profits and for-profit entities;
- How do we implement valuation of ecosystem services; and,
- How do we concretely demonstrate and communicate restoration benefits to stakeholders and communities?

Call for Action – We Need Your Support!

To date this has been a collaborative effort of the Environmental Defense Fund, America's Wetland Foundation, The Nature Conservancy and the recently organized Large-scale Ecosystem Restoration Section (LERS) of the Society for Ecological Restoration. We encourage you to join our efforts and help unite the voice of the ecosystem restoration community. If you are interested in contributing please contact, the Chair of the LERS Board of Directors, Cheryl Ulrich, at cherylulrich@comcast.net. You may track our efforts through the LERS website http://chapter.ser.org/lers/

References:

- The US Economic Impacts of Climate Change and the Costs of Inaction. A Review and Assessment by the Center for Integrative Environmental Research at the University of Maryland. Oct 2007
- Deltas 2010 – World Delta Dialogues. Report of Findings. America's Wetland Foundation. Oct 2010
- Water Resources IMPACT. AWRA at 50: The Future of Water Resources in the US. Jan 2014

Program Agenda
and
Schedule of Oral Presentations

Sunday, July 27, 2014	
4:00pm - 6:00pm	**Temporary Registration Open for Optional Even Participants [Hilton Exhibition Center - 2nd Floor]**
Monday, July 28, 2014	
7:00am - 10:00am	**Temporary Registration Open for Optional Even Participants [Hilton Exhibition Center - 2nd Floor]**
7:00am	**Morning Refreshments for Optional Event Participants [Bus Loading Zone Foyer - 1st Floor]**
7:00am	**OPTIONAL Make a Difference Event** *[Bus Loading Zone - 1st Floor]*
8:00am - 5:00pm	**OPTIONAL Pre-conference Field Trips** *[Bus Loading Zone - 1st Floor]* *Hurricane Buffers: Going…Going…Gone?* *Diversionary Tactics - Reconnecting the River to the Land* *Lafitte Swamp Tour*
9:30am - 5:00pm	**OPTIONAL EPA and ASWM Wetlands Workshop** [Kabacoff Room - Riverside Complex]
10:00am - 5:00pm	**OPTIONAL Workshop on Communication and Strategic Outreach** [Eglinton-Winton Room - 2nd Floor]
3:00pm - 7:00pm	**Exhibitor Move-In and Poster Set Up [Hilton Exhibition Center - 2nd Floor]**
3:00pm - 7:00pm	**Registration Open [Grand Salon Ballroom - 1st Floor]**
Evening on Own	

Opening Plenary Session

Tuesday, July 29, 2014
9:00am – 10:00am
(Salon A)

Moderator:

Mark Wingate, CEER 2014 Co-chair,
Program Committee, USACE, New Orleans District

Speakers:

K. Ramesh Reddy, Chair, University of Florida/IFAS Soil and Water Science Department

Cara Nelson, Chair, Society for Ecological Restoration and Co-Chair, CEER 2014

Mitch Landrieu, New Orleans Mayor - *Invited*

R. King Milling, CEER 2014 Honorary Chair,
Chair, Louisiana Governor's Advisory Commission on Coastal Protection, Restoration and Conservation
Board Member, National Fish and Wildlife Foundation, and
Chair, America's WETLAND Foundation, New Orleans, LA

Welcome to New Orleans and to CEER 2014!

Tuesday, July 29, 2014	
7:30am - 7:00pm	**Registration Open** [Grand Salon Ballroom - 1st Floor]
7:30am - 9:00am	**Morning Refreshments** [Exhibit Hall & Poster Display Area - Hilton Exhibition Center - 2nd Floor]
7:30am - 5:00pm	**Exhibits & Posters on Display** [Hilton Exhibition Center - 2nd Floor]
9:00am - 10:00am	**OPENING PLENARY SESSION** [Salon A - 1st Floor] **MODERATOR: Mark Wingate,** CEER 2014 Co-chair, Program Committee, USACE, New Orleans District **K. Ramesh Reddy,** Chair, University of Florida/IFAS Soil and Water Science Department **Cara Nelson,** Chair, Society for Ecological Restoration; Co-Chair, CEER 2014; and Department of Ecosystem and Conservation Sciences, University of Montana **Mitch Landrieu,** New Orleans Mayor - *Invited* **R. King Milling**, CEER 2014 Honorary Chair, *-and-* Chair, Louisiana Governor's Advisory Commission on Coastal Protection, Restoration and Conservation Board Member, National Fish and Wildlife Foundation and Chair, America's WETLAND Foundation New Orleans, LA **Cheryl Ulrich,** Co-Chair, CEER 2014; and Ecosystem Restoration Department Manager, Dewberry
10:00am - 10:30am	**AM Break** [Exhibit Hall and Poster Display Area - 2nd Floor]

Tuesday, July 29, 2014					
10:30am - 12:00pm	**Concurrent Sessions**				
Session #	**1**	**2**	**3**	**4**	**5**
Location	**Salon B**	**Salon C**	**Salon D**	**Salon E**	**Salon F**
Session Title	**Deepwater Horizon Oil Spill NRDA Trustee Early Restoration in the Gulf of Mexico Part 1**	**Emerging Water Resources Policy**	**Regime Changes, Resilience & Restoration - The Evolving Dialogue**	**Ecosystem Restoration - Climate Change and Sea Level Rise**	**National Parks and the Gulf Coast: Protecting, Restoring, and Growing for the Second Century**
Moderator	**John Isanhart**	**Karen Gautreaux**	**Stephen Murphy**	**Jennifer Mouton**	**Sarah Barmeyer**
10:30am	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
10:40am	**Colette Charbonneau** *Deepwater Horizon* (*DWH*) Oil Spill Natural Resource Damage Assessment Early Restoration Overview	**Chris Dalbom** Managing Water for a Sustainable Coast	**Richard Hobbs** From Slippery Concept to Effective Tools: Developing an Operational Approach to Resilience	**Kelly Moores** Scenario Building for Climate Change Management in Bruce Peninsula National Park	**John Adornato III** Restoring Great Waters and National Parks for the Second Century of the National Park System - A National Overview
11:00am	**Kelly Samek** Restoring Lost Recreational Use of Natural Resources After the DWH Oil Spill	**Heath Kelsey** Report Card Supports Integrated Management in the Mississippi River Basin	**Rachel Standish** How Do Ecologists Measure Resilience?	**Amanda Pruzinsky** Chesapeake Bay Watershed Model Analysis of Climate Change Effects on State-Basin Nutrient and Sediment Loadings	**Mark Ford** National Park Service Restoration in Gulf of Mexico Coastal Parks
11:20am	**William Brantley** An Overview of the DWH Incident Natural Resource Damage Assessment Early Restoration Program in Alabama	**Bryan Piazza** The Louisiana Freshwater Assessment: Scientific Decision Support for Freshwater Conservation and Policy Development	**James Hallett** Incorporation of Resilience as a Goal in Ecosystem Restoration: A Pacific Northwest (USA) Perspective	**James Pahl** Incorporating Sea-Level Rise in Louisiana's Coastal Master Plan	**William Finch** The Mobile-Tensaw Delta: A New Conservation Matrix for One of North America's Most Diverse Landscapes
11:40am	**Benjamin Frater** Technological Advances in Sea Turtle Restoration: The DWH NRDA Program and Coastal Lighting	**Dennis Duke** Emerging Policy - Post Marks from the Bleeding Edge	**Cara Nelson** Operationalizing Resilience for Ecological Restoration	**Timothy Osborn** NOAA - Sea Level Trends - Putting Sea Level Rise Curves Into Operational Practice	**Michele Archie** Potential Economic Impacts of National Park Units at Galveston Bay and Mobile-Tensaw Delta
12:00pm - 1:30pm	**Lunch on Own**				

Tuesday, July 29, 2014					
10:30am - 12:00pm	**Concurrent Sessions**				
Session #	**6**	**7**	**8**	**9**	**10**
Location	**Salon G**	**Salon H**	**Salon I**	**Salon J**	**Salon K**
Session Title	**Coastal Ecosystem Services**	**Using the Target Plant Concept to Improve Restoration Planting Success**	**Collaborative Adaptive Management**	**Nutrients - Effects and Management**	**Restoration to Support Fisheries Habitat**
Moderator	**Ann Redmond**	**Anthony Davis**	**Chad Smith**	**Richard Pfingsten**	**Jerry Kenny**
10:30am	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
10:40am	**Ann Speers** The Change in Ecosystem Services Values and Long Term Economic Impact Resulting From Coastal Restoration Investments	**Jeremiah Pinto** How Plants Establish, or Fail To, In Restoration Projects	**Jim Berkley** Contrasting Roles in Collaborative Adaptive Management: A Potential Key to Progress	**Emma Giese** Evaluating Best Management Practice Effectiveness to Inform Decision Making in the Chesapeake Bay	**Rolando Santos** Linking Everglades Restoration Effects To Fisheries Habitat: Influence Of SAV Seascape Structure And Fish Predation Risk
11:00am	**Maria Cristina Infante** Ecosystem Services Value at Risk: Towards Marine Ecosystem Restoration	**Karma Bouazza** Stocktype Development and Selection for Improved Restoration Success in Lebanon	**Kent Loftin** Integrating Adaptive Management Into Project Lifecycle Processes	**Joseph Pfeiffer, Jr.** Engineered Ecosystems, a Cyborg Approach to Ecosystem Restoration - Grand Lake St. Marys Littoral Wetland Restoration	**Dawn York** A First in the Cape Fear River - Enhancing Anadromous Fish Spawning Habitat
11:20am	**Michael Leff** Cutting-Edge Tools for Assessing Ecosystem Services and Managing Restoration Projects	**Owen Burney** Biotic Factors Limiting Outplanting Success of the Target Plant	**Craig Allen** Developing an Adaptive Management Framework for the Nebraska State Wildlife Action Plan	**Gary Shaffer** The Influence of Nutrients on the Sustainability of Coastal Wetlands	**Wendy Katagi** Physical Hydraulic Modeling Tools for Restoration of Endangered Southern Steelhead Habitat
11:40am	**Marla Stelk** Ecosystem Service Valuation for Wetland Restoration	**Simon Landhäusser** Fitness for Purpose: Tree Seedling Quality in Forest Restoration	**Ahjond Garmestani** Green Urban Stormwater Management: A Fertile Ground for Collaborative Adaptive Management	**William Crumpton** Water Quality Performance of Wetlands Receiving Nonpoint Source Nitrogen Loads: Benefits of Targeted Wetland Restorations	**Daniel Bottom** Wetland Recovery and Salmon Population Resilience
12:00pm - 1:30pm	**Lunch on Own**				

Tuesday, July 29, 2014					
1:30pm - 3:00pm	**Concurrent Sessions**				
Session #	**11**	**12**	**13**	**14**	**15**
Location	**Salon B**	**Salon C**	**Salon D**	**Salon E**	**Salon F**
Session Title	**Deepwater Horizon Oil Spill NRDA Trustee Early Restoration in the Gulf of Mexico Part 2**	**Integrating Adaptive Management into NEPA Planning to Expedite Large-Scale Ecosystem Restoration / Recovery Implementation**	**Community Engagement for Ecosystem Restoration and Resiliency**	**Global Perspectives on Restoring Waterways Affected by Industrial Contamination Part 1**	**Restoring Water Quality along with Restoring the Gulf of Mexico Part 1**
Moderator	**John Isanhart**	**Tom St Clair**	**Bryon Griffith**	**Richard Wenning**	**Troy Pierce and Matt Harwell**
1:30pm	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
1:40pm	**Amy Mathis** Enhanced Management of Avian Breeding Habitat Injured by Response in the Florida Panhandle, Alabama, and Mississippi	**<u>PANELISTS:</u>** **Steve Bartell,** Cardno ENTRIX **Kate Engel,** Confluence Environmental Company **April Fitzner**, USACE This panel will examine a growing trend within large-scale ecosystem restoration/recovery programs involving the integration of adaptive management principles into NEPA planning and documentation. The session will involve a combination of brief presentations from four large-scale restoration/recovery programs (i.e., Everglades, Louisiana Coastal Area, Missouri River, and Upper Mississippi River) followed by discussion to address issues common to each program. The intended audience is managers, restoration/recovery practitioners, planners, and others who prepare NEPA documentation for large-scale restoration programs.	**Adrienne Mason** An Interface Of Community Wellbeing And Watershed Restoration In Southern Bruce County	**Danny Sherban** Environmental Remediation and Restoration of the Kishon River, Israel	**Jane Morse** Innovative Approaches, Methods and Techniques for Improving Water Quality
2:00pm	**Brian Spears** Rebuilding an Island to Restore Bird Nesting Habitat for Species Injured by the DWH Spill		**Alek Modjeski** Post-Sandy Bradley Beach Maritime Forest Creation: A Small Scale Project With Large Scale Application Potential	**Timothy Iannuzzi** Considerations for Restoration of Heavily Industrialized Rivers in the United States: A Case Study of the Lower Passaic River	**Alma Robichaux** Barataria-Terrebonne National Estuary Program – Cleaning Up Our Waterways
2:20pm	**Don Blancher** Restoring Ecosystem Services in Mississippi Coastal Water by Enhancing Secondary Productivity using Oyster Cultch and Artificial Reefs		**Darin Stringer** Fusing Eastern And Western Outplanting Practices For Success: The Lebanon Reforestation Initiative	**Rebecca Gardner** Integrated Approaches to Achieving Environmental Goals in Norway's Fjords	**Andrew Stoddard** Davis Pond River Diversion: Pre-and Post-Diversion Trends for Salinity Intrusion and Nutrients
2:40pm	**Alyssa Dausman** Science and Monitoring to Assess the Success of Restoration Projects Related to the DWH Oil Spill and Natural Resource Damage Assessment and Restoration		**Stephen Murphy** Regime Changes, Resilience, and Restoration: No Reverse Gear	**Nuno Caiola** Environmental Restoration of the Lower Ebro River and its Delta (Catalonia, Spain)	**Troy Pierce** Community Driven Water Quality Improvement to Benefit Gulf Ecosystems: EPA Funded Projects 1987-2013
3:00pm - 3:30pm	**PM Break [Exhibit Hall and Poster Display Area - 2nd Floor]**				

Tuesday, July 29, 2014					
1:30pm - 3:00pm	**Concurrent Sessions**				
Session #	**16**	**17**	**18**	**19**	**20**
Location	**Salon G**	**Salon H**	**Salon I**	**Salon J**	**Salon K**
Session Title	**Principles to Practice: Implementing Regional Sediment Management on the Gulf of Mexico Coast**	**Think Like a Watershed: Urban Restoration in the Nation's Capital**	**Sustaining Coastal Landscapes and Community Benefits: Ecosystem Service Valuation to Improve the Use of Science in Policy**	**Integrating Ecological Restoration Projects into a Regional Framework**	**Application of Evidence-Based Evaluations (EBE) for Large-Scale Ecosystem Restoration Programs Part 1**
Moderator	**Mikell Smith**	**Peter Hill**	**Christine Feurt**	**Paul Bovitz**	**Heida Diefenderfer**
1:30pm	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
1:40pm	**Syed Khalil** Gulf Regional Sediment Management Master Plan (GRSMMP): An Overview of the Sediment Resources of Northern Gulf of Mexico	**Josh Burch** Restoring Ecological Function to Zero-Order Urban Streams Using Regenerative Stream Channel Designs	**Kristin Wilson** Ecosystem Services of Riparian Buffers	**Christina Kaunzinger** Ecological and Administrative Constraints to Restoring Coastal Habitats Along Jamaica Bay, NY	**Andy LoSchiavo** Role of System-wide Ecosystem Restoration Assessments in the Everglades Adaptive Management Program
2:00pm	**Larry Parson** Policy Issues and Recommendations for the Implementation of Beneficial Use of Management Sediments	**Andrew Oetman** LID in Washington D.C.: True Data from the Trenches	**Verna DeLauer** Using Mental Modeling and Communication Audits to Link Ecosystem Service Valuation to Restoration Goals	**John Champion & Gwen Macdonald** Urban River Restoration Success: Collaborating with Local Communities	**Christopher Hathcock** Evolution of Inventory and Monitoring Strategies and Using Qualitative Data to Evaluate Long-Term Restoration Efforts Along the Rio Grande
2:20pm	**Ray Newby** State Implementation of Regional Sediment Management: Economic, Environmental, and Collaborative Success Stories from Texas and Mississippi	**Rebecca Stack** Can Urban Redevelopment Restore Aquatic Resources with Standards for Stormwater Retention and Landscape Performance?	**Christine Feurt** Challenges and Rewards of Transdisciplinary Collaboration to Sustain Ecosystem Services	**Ed Morgereth** Adaptively Restoring and Managing Urban Riparian Areas for Ecological Improvement, Resiliency & Planning Integration	**Denise Reed** Striving for System Change: Setting Objectives and Measuring Response
2:40pm	**Carl Ferarro** Strategies for Implementing Regional Sediment Management: Using a Collaborative Approach to Implementing RSM Principles in Alabama	**Peter Hill** Adding up the Benefits of Three Integrative Programs for Water Quality and Habitat Restoration	**Panel Discussion:** Interdisciplinary Panel & Audience Engagement to Discuss Benefits and Barriers of Ecosystem Service Valuation for Ecosystem Restoration Practice and Policy	**Margaret Glowacki** Incentivizing Low Impact Development: Developing and Piloting Green Shores for Homes	**Gary Johnson** An Evidence-Based Evaluation of the Cumulative Effects of Ecosystem Restoration in the Lower Columbia River and Estuary
3:00pm - 3:30pm	**PM Break [Exhibit Hall and Poster Display Area - 2nd Floor]**				

Tuesday, July 29, 2014					
3:30pm - 5:00pm	**Concurrent Sessions**				
Session #	**21**	**22**	**23**	**24**	**25**
Location	**Salon B**	**Salon C**	**Salon D**	**Salon E**	**Salon F**
Session Title	**Deepwater Horizon-Related Programs in the Gulf of Mexico: An Overview of Program Goals and Activities**	**Post Hurricane Sandy - Increasing Resilience: Lessons Learned**	**The Central Everglades Planning Project: The Application of Key Scientific Products Developed By the RECOVER Science Program to the Accelerated Planning Process**	**Global Perspectives on Restoring Waterways Affected by Industrial Contamination Part 2**	**Restoring Water Quality along with Restoring the Gulf of Mexico Part 2**
Moderator	**Rebecca Allee**	**Sarah Murdock**	**Patrica Gorman**	**Richard Wenning**	**Troy Pierce and Matt Harwell**
3:30pm	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
3:40pm	**Julien Lartigue** NOAA RESTORE Act Science Program: Advancing a Holistic Understanding of the Gulf of Mexico	**Sarah Miller, *on behalf of Roselle Henn*** Nature-Based Features in a Systems Approach to Coastal Storm Risk Management	**Agnes McLean** Use of Ecological Models in Project Planning	**David Moore** Plenty of Eels: Industrial Activity, Environmental Quality and Ecological Restoration in the Parramatta River, Australia	**Melissa Pringle** Alternative Shoreline Management Guidance Manual for Coastal MS
4:00pm	**Chris Elfring** The NAS Gulf Research Program: An Overview	**Greg Guannel** Nature Reduces the Impacts of Storms. What's Next?	**Christopher Buzzelli** Forecasting Estuarine Responses to Altered Freshwater Inflow	**Wayne Landis** A Tale of Two Rivers - Evaluating Restoration Methods with Bayesian Networks in the South River (VA) and Puyallup River (WA)	**George Guillen** Multipurpose Wetland Creation and Restoration to Improve Water Quality and Wildlife Habitat in Coastal Urban Bayous
4:20pm	**Charles Wilson** The Gulf of Mexico Research Initiative; a New Research Paradigm	**Elizabeth Schuster** Adaptation Solutions and Ecosystem Service Benefits at Cape May Meadows	**Susan Kemp** Everglades Connectivity Through the Eyes of the South Florida Estuaries	**Hany Elwany** Engineering and Construction of Southern California Lagoons with Emphasis on San Dieguito, Lagoon	**James L. Cummins** Restoring the Lower Mississippi River Batture
4:40pm	**Robert Kröger** Update on Gulf Coast Ecosystem Restoration Council Activities	**Timothy Osborn** SLR and Subsidence Effects on the Coastal Landscape and the Rise in Vulnerability to Coastal Natural Resources, Communities	**Andrew LoSchiavo** Development of Adaptive Management Strategies to Improve Central Everglades Planning Project Implementation	**Katie Bland** Selenium Reduction In Constructed Wetland Treatment Systems	**Kathryn Meaux** Red Bug Slough Ecosystem Restoration
5:00pm - 6:30pm	**Welcome Networking Social** [Exhibit Hall & Poster Display Area - Hilton Exhibition Center - 2nd Floor]				

Tuesday, July 29, 2014					
3:30pm - 5:00pm	**Concurrent Sessions**				
Session #	**26**	**27**	**28**	**29**	**30**
Location	**Salon G**	**Salon H**	**Salon I**	**Salon J**	**Salon K**
Session Title	**The Missouri River Recovery Program (MRRP): Strengthening the Relationships Between Modeling, Monitoring, Adaptive Management and Planning**	**Restoration in Action - Case Studies**	**Involving Stakeholders in Planning for Restoration-Rationale, Constraints, Innovation, and Best Practices**	**Shoreline Green Infrastructure: The Next Generation of Resilient Techniques**	**Application of Evidence-Based Evaluations (EBE) for Large-Scale Ecosystem Restoration Programs Part 2**
Moderator	**Craig Fleming**	**Eddy Carter**	**Maura Wood**	**Beth Spalding**	**Heida Diefenderfer**
3:30pm	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
3:40pm	**Kate Buenau** Evaluating the Effects of Current and Potential Restoration Management Actions for Least Terns (*Sternula antillarum*) and Piping Plovers (*Charadrius melodus*) on the Missouri River	**Cris Weber** Port Alto Beach Wetland Restoration and Conservation Project	**Bethany Kraft** Public Engagement and the Gulf Coast Ecosystem Restoration Council	**Terry Doss** Nature-Based Shoreline Restoration Techniques	**David Marmorek** What It Really Takes To Test Hypotheses Concerning Ecosystem Restoration and Species Recovery
4:00pm	**Craig Fleming** Structured Decision Making, Adaptive Management and Missouri River Recovery Implementation Committee: A Path Forward	**Jamie Bartel** Non Rock Alternative to Shoreline Protection	**Craig Colten** Scenario Building Workshops	**Marit Larson** Restoring Urban Wetlands for Increased Coastal Resiliency: Assessing Needs and Priorities in NYC	**Leska Fore** Approaches to Evidence-Based Evaluation of Puget Sound Ecosystem Recovery
4:20pm	**Aaron Quinn** Monitoring and AM in the MRRP; Lessons Learned and Transition to a More Integrated Program	**Joe Wagner** Eau Gallie River & Elbow Creek Muck Dredging & Environmental Restoration	**Matthew Bethel** Sci-TEK: Integrating TEK into Restoration Decision-Making	**Christopher Streb** Green Bulkheads in the Cuyahoga River	**Benjamin Zelinsky** Managing the Multi-Agency Columbia Estuary Ecosystem Restoration Program
4:40pm	**Craig Fischenich** Conducting an Effects Analysis for System-Wide Evaluation of Endangered Species Status on the Missouri River	**Rusty Feagin** Removing Barriers to Tidal Hydrology at Marshes in Magnolia Beach and Indianola, Texas	**Camille Manning-Broome** Engaging the Public in Planning and Implementation	**Bill Young** Living Shorelines and Wave Attenuation Devices: A Hybrid System	**Ronald Thom** Evaluating Effects of Actions Across a Range of Uncertainty
5:00pm - 6:30pm	**Welcome Networking Social** [Exhibit Hall & Poster Display Area - Hilton Exhibition Center - 2nd Floor]				

Mississippi River Restoration

Wednesday, July 30, 2014
9:00am – 10:00am
(Salon A)

Moderator:

Val Marmillion, America's Wetland Foundation

Speakers:

Edward E. Belk, Jr., P.E., SES, Director of Programs,
U.S. Army Corps of Engineers, Mississippi Valley Division

Kirk Hanlin, Assistant Chief Natural Resources Conservation Service (NRCS) USDA

Gary LaGrange, President and CEO, Port of New Orleans

Robert Twilley, Executive Director, LSU Sea Grant College Program

Plenary Session Overview

Following five leadership forums convened by the America's WETLAND Foundation for its Big River Project, this session will establish the context for action required to successfully manage the Mississippi River system and ensure the integrity of its natural resources and assets. As one of our Nation's most important natural resources, the Big River is the answer to much of what challenges us, but its future potential depends on providing an aggressive approach to its stewardship. In this session, some of the foremost leaders with River interests will discuss:

1. why the Mississippi River territory is essential to all living things,
2. how stains of the Mississippi River will lead to loss of ecosystem values that the River provides,
3. how to imagine a new view of water management in America that includes consideration of ecosystem sustainability challenges, which is essential if we are to have an environmentally sound and economically prosperous asset in the River, and
4. how federal programs, such as programs for healthy soils incentives for farmers, can result in a flowing river that is less toxic and problematic to river's end hypoxia challenges that threaten Gulf Coast waters, impacting marine life and the states along the coast.

Wednesday, July 30, 2014	
7:30am - 5:00pm	**Registration Open** [Grand Salon Ballroom - 1st Floor]
7:30am - 9:00am	**Morning Refreshments** [Exhibit Hall & Poster Display Area - Hilton Exhibition Center - 2nd Floor]
7:30am - 5:00pm	**Exhibits & Posters on Display [Hilton Exhibition Center - 2nd Floor]**
9:00am - 10:00am	**PLENARY SESSION: Mississippi River Restoration** [Salon A - 1st Floor] **MODERATOR: Val Marmillion, America's Wetland Foundation** **Edward E. Belk, Jr., P.E., SES, Director of Programs, U.S. Army Corps of Engineers, Mississippi Valley Division** **Kirk Hanlin, Assistant Chief Natural Resources Conservation Service (NRCS) USDA** **Gary LaGrange, President and CEO, Port of New Orleans** **Robert Twilley, Executive Director, LSU Sea Grant College Program**
10:00am - 10:30am	**AM Break** [Exhibit Hall and Poster Display Area - 2nd Floor]

Wednesday, July 30, 2014					
10:30am - 12:00pm	**Concurrent Sessions**				
Session #	**31**	**32**	**33**	**34**	**35**
Location	**Salon B**	**Salon C**	**Salon D**	**Salon E**	**Salon F**
Session Title	**Mississippi River Initiatives**	**Louisiana Coastal Restoration: Planning, Permitting, and Implementing Mississippi River Diversions**	**Engineering and Ecosystem Restoration Part 1**	**Innovative Coastal Habitat Restoration**	**Adaptive Management and Monitoring**
Moderator	**Sidney Coffee**	**Mark Wingate**	**Steve Hall**	**Chris Warn**	**Bridget Barron**
10:30am	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
10:40am	**Sidney Coffee** The Big River Works	**Elizabeth Davoli** Soliciting Stakeholder Input to Inform the Permitting Process: Mid-Barataria Sediment Diversion and Maurepas Swamp Diversion	**Matt Campbell** Coastal Engineering Design Criteria for Living Shorelines	**Francisco Vilella** The Migratory Bird Habitat Initiative: Managing Waterbird Habitats After The 2010 Gulf Oil Spill	**Stacy Vynne** Applying a Common Adaptive Management Framework to Chinook and Ecosystem Recovery in Puget Sound
11:00am	**Jennifer Browning** 1 Mississippi: Can the River Count on You?	**David Muth** Louisiana Coastal Restoration: Planning, Permitting, and Implementing Mississippi river Diversions	**Christine Shepard** Aligning Restoration and Risk Reduction Objectives? We've Got an App for That!	**Shaye Sable** Using an Individual-Based Model to Evaluate Effects of Changing Habitat and Multiple Factors on Tidal Marsh Fishes	**Lea Rubin** Building and Sustaining Integrated Monitoring Networks in the Face of Decreasing Federal and State Funding
11:20am	**Colin Wellenkamp** The Mississippi River: On the Cutting Edge of Place-Making and Advanced Regional Collaboration in the U.S.	**Steve Wilson** A Levee Board's Perspective and Role in Mississippi River Diversions	**Josh Carter** Living Shoreline Demonstration Project - Analysis of Concept Performance	**Fabien Dubas** Innovative Solution for Coastal Fish Nursery Restoration	**Molly Middlebrook Amos** Application of Quality Assurance Concepts From Chemical Measurements to Ecological Measurements Conducted During Monitoring
11:40am	**Karen Gautreaux** Envisioning Future Management of the Lower Mississippi	**Mark Wingate** US Army Corps of Engineers Perspective of Mississippi River Diversions	**Discussion**	**Joe Berg** An Innovative Technique for Gas Canal 'Restoration'	**Discussion**
12:00pm - 1:30pm	**Lunch on Own**				

Wednesday, July 30, 2014					
10:30am - 12:00pm	**Concurrent Sessions**				
Session #	**36**	**37**	**38**	**39**	**40**
Location	**Salon G**	**Salon H**	**Salon I**	**Salon J**	**Salon K**
Session Title	**Beneficial Reuse of Dredged Material - Linking Navigation Dredging to Ecosystem Restoration**	**Economics and Ecosystem Services**	**Innovative Terrestrial Restoration and Partnerships Part 1**	**Opportunities and Challenges for Blue Carbon Sequestration and Application**	**Ecosystem Restoration on the Lower Colorado River**
Moderator	**Dilip Trivedi**	**Gary Oates**	**David Ross**	**Jeffrey Supak**	**Matthew Grabau**
10:30am	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
10:40am	**Cassandra Carr** Paul S. Sarbanes Ecosystem Restoration Project at Poplar Island – Beneficial Use Of Dredged Material	**Ivan Medel** Post-Restoration Ecosystem Service Evaluation of a Seasonally Closed Estuary: Malibu Lagoon Case Study	**Therese Glowacki** Healthy Forests and Renewable Energy	**Hongqing Wang** Landscape Effect of Mississippi River Diversions on Soil Organic Carbon Sequestration in Louisiana Deltaic Wetlands	**Terry Murphy** Habitat Management and Creation to Balance Anthropogenic Requirements and Species Conservation in the United States
11:00am	**Brad Inman** Sabine Refuge Marsh Creation (Gulf Coast, Louisiana)	**Richard Weisskoff** Economic Modeling for Everglades Restoration: A Ten-Year Perspective	**Sarah Hall** Restoring Forests on Mine Land In Appalachia	**Sarah Mack** Wetland Carbon Offsets of the Mississippi River Delta	**Karen Schlatter** A Landscape-Scale Restoration Experiment: The 2014 Spring Flood Flow Release to the Colorado River Delta, Mexico
11:20am	**Michael Cho** Port Metro Vancouver Habitat Enhancement Program	**David Hanson** Incorporating Connectivity and Spatial Dynamics in Restoration Plans	**Lesley DeFalco** Emerging Restoration Approaches for Disturbed Mojave Desert Shrublands and the Search for Suitable Native Plant Materials	**Jessica Davis** Carbon Storage in an Old-Growth, Temperate Deciduous Forest: Understanding the Biodiversity-Ecosystem Function Relationship	**Francisco Zamora** Restoration Challenges and Successes in Mexico: Planning, Partnerships, and Community Engagement
11:40am	**Dilip Trivedi** Beneficial Reuse of Dredged Material – The San Francisco Bay Experience	**Colleen Bronner** Critical Evaluation Of Stream Restoration Practice Using Semi-Structured Interviews, Surveys And Field Case Studies	**David Ross** Implementing a Landscape-Level Oak Habitat Restoration Initiative with Local Workforce Partnerships	**Jorge Lima** Amazon Biomass in the Carbon Cycle	**Osvel Hinojosa-Huerta** The Ecosystem Response to Restoration: Birds and Vegetation in the Colorado River Delta
12:00pm - 1:30pm	**Lunch on Own**				

Wednesday, July 30, 2014					
1:30pm - 3:00pm	**Concurrent Sessions**				
Session #	**41**	**42**	**43**	**44**	**45**
Location	**Salon B**	**Salon C**	**Salon D**	**Salon E**	**Salon F**
Session Title	**Landscape-Scale Restoration in Coastal Louisiana: The Use of Data-Driven Science Applications to Support Planning and Assessment**	**Advances in Science / Modeling in Louisiana**	**Engineering and Ecosystem Restoration Part 2**	**Earth without Art is just Eh!**	**Utilizing Wetlands and Marshes for Mitigation**
Moderator	**Gregory Steyer**	**John Foret**	**Steve Hall**	**Nanciann Regalado**	**Karen Appell**
1:30pm	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
1:40pm	**Angelina Freeman** Predictive Models to Support Evaluation and Selection of Restoration and Protection Alternatives	**John Nyman** Models to Predict the Effects of Coastal Restoration in Louisiana on Fish and Wildlife	**Jeff DeQuattro** Making The Case For Bringing Natural Infrastructure To Scale	**Nanciann Regalado,** US Fish and Wildlife Service **Stuart Appelbaum,** ARCADIS **Gwen Eyeington**, J. Ross Publishing **Lucy M.F. Keshavarz**, Art and Culture Group, Inc. This panel focuses on art, often overlooked component in communicating restoration. Appelbaum will share struggles of implementing the large multi-decade Everglades restoration program. Regalado will discuss challenges of running a large outreach program for the Everglades. Eyeington, an Everglades artist will discuss her perspective of being a "pure artist" in the restoration community. Finally, Keshavarz, an artist and arts consultant will discuss her EcoArt projects that involve collaboration with scientists and engineers in creating unique restoration projects that make the invisible visible and offer cross-audience pollination opportunities.	**Joseph Shisler** Application of HGM in the Evaluation of the Success of a Mississippi Tidal Marsh Mitigation Project
2:00pm	**Ehab Meselhe** Mississippi River Hydrodynamic Study: Understanding Sediment Availability and Delivery for Land Building	**Kenneth Rose** Modeling the Effects of Diversions: Can the Biology and Data Keep Up with Computers?	**Tyler Ortego** An Overview of Oyster Reef Shoreline Projects on the Gulf Coast and Beyond		**John Tobe** Restoration at the Landscape Scale, Sweetwater Mitigation Bank, Northwest Florida, USA
2:20pm	**Dona Weifenbach** Coastwide Reference Monitoring System-*Wetlands*: Providing Data for Louisiana's Restoration and Protection Programs	**Ron Boustany** Estimating Benefits of Hydrologic Restoration and Freshwater Introduction Projects in Coastal Wetlands	**Seth Blitch** Successes and Challenges of Oyster Habitat Restoration in Louisiana		**Brian Murphy** Aquatic Mitigation for the Modified Central City Project: Riverside Oxbow and Sycamore Creek Restoration
2:40pm	**Angelina Freeman** Predictive Models to Support Evaluation and Selection of Restoration and Protection Alternatives	**Alisha Renfro** Lessons Learned From Legacy Structures	**Discussion**		**Kathryn Sommo** Maritime Grassland Creation and Shoreline Stabilization
3:00pm - 3:30pm	**PM Break** [Exhibit Hall & Poster Display Area - Hilton Exhibition Center – 2nd Floor]				

Wednesday, July 30, 2014					
1:30pm - 3:00pm	**Concurrent Sessions**				
Session #	**46**	**47**	**48**	**49**	**50**
Location	**Salon G**	**Salon H**	**Salon I**	**Salon J**	**Salon K**
Session Title	**Reef Restoration**	**Woodland Ecosystem Restoration**	**Innovative Terrestrial Restoration and Tribal Partnerships Part 2**	**River, Stream and Lake Ecosystem Restoration**	**Real-Time Evaluation, Reporting, and Modeling of Ecosystem Restoration Part 1**
Moderator	**Brant Richard**	**Alton James**	**David Ross**	**Jamil Ibrahim**	**Paul Conrads**
1:30pm	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
1:40pm	**Paul Jensen** Oyster Reef Restoration: Restoring Ecological Function	**Kurt Dreisilker** Enhancing Establishment of White Oak and American Hazelnut Enrichment Plants in a Mesic Forest Using Understory Removal and Group Selection	**Samira Omar Asem** Establishment of Rhanterium Epapposum Community as Fundamental Step to Mitigate Climate Change in Kuwait	**Robert Beduhn** The Great Lakes Commission Has Embarked On An Ambitious Study To Restore The Natural Divide Of The Great Lakes/Chicago River	**Matt Neilson** Real-time monitoring and reporting of the leading edge of aquatic invasions: the USGS NAS Alert System.
2:00pm	**William Precht** Rebuilding Coral Reef Structure And Complexity	**Jeff Kelly** Nursery Production of High Quality Aspen Seedlings: Alternative Techniques in the Forest Reclamation and Restoration Process	**Don Hankins** Restoring Indigenous Fire to California Oak Woodlands	**Mike Eggleston** Restoration of a Great Lakes Coastal Wetland: Measuring Ecological Response and Function	**Stephanie Romañach** Real-Time Biological Data Viewer
2:20pm	**Stephanie Schopmeyer** Lessons Learned Over 7 Years Of Acropora Restoration And Propagation In Florida And The Caribbean	**Steven Rogstad** Restoring the American Chestnut: Optimizing Founder Spacing to Promote Population Growth and Genetic Diversity Retention	**Melvin Yazzie** Navajo AML Reclamation Projects, Navajo Nation	**Bernd Cyffka** Restoration of Ecosystem Functions at a (New) Danube Side Channel (Bavaria/ Germany)	**Pamela Telis** Real-Time Reporting of Inundation on Tree Islands in the Florida Everglades
2:40pm	**Bill Sharp** Understanding the Role of Herbivory and Predator/Prey Interactions to Guide Coral Reef Ecosystem Restoration	**Will Russell** Assessing Restoration Potential of Sequoia Sempervirens Forests Using Chronosequence	**Kingsley Dixon** Challenges Facing Shrubland Rehabilitation in Saudi Arabia: Insight Gained from Precision-Seeding and Greenstock Trials	**Marie-Claude Roy** The Oil Sands of Alberta (Canada); Marsh Reclamation	**David Sibley** Integration of Disparate Data Sources for Real-Time Beach Water Quality Modeling on the Great Lakes
3:00pm - 3:30pm	**PM Break** [Exhibit Hall & Poster Display Area - Hilton Exhibition Center – 2nd Floor]				

Wednesday, July 30, 2014					
3:30pm - 5:00pm	**Concurrent Sessions**				
Session #	**51**	**52**	**53**	**54**	**55**
Location	**Salon B**	**Salon C**	**Salon D**	**Salon E**	**Salon F**
Session Title	**Louisiana's Barrier Islands & Coastal System: Status and Restoration**	**PANEL SESSION: SPEAK UP! Share your Perspectives on the Current State of Knowledge and Practice in Ecological Restoration**	**Urban Ecosystem Restoration**	**A "Campaign" Approach to Outreach and Information Using Media Across Multiple Platforms to Maximize Audience and Impact**	**Mitigation - Innovative Approaches**
Moderator	**Brad Inman**	**Aida Farag**	**Heath Kelsey**	**David Donnenfield Kevin White**	**Sarah Peterson**
3:30pm	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
3:40pm	**Steve Auernhamer** Construction Challenges in Restoring Louisiana's Barrier Islands	**Cheryl Ulrich**, SER Science and Policy Chair; Ecosystem Restoration Department Manager, Dewberry **David Ross**, DOI Office of the Secretary **Judy Haner**, The Nature Conservancy **Dale Gawlik**, Florida Atlantic University This session seeks your input on the current state of knowledge and practice in ecological restoration globally to inform a draft document by the Society for Ecological Restoration. An overview of key elements of the document will be provided, and panelists will raise questions for the audience and each other to consider. This is an interactive session to share your ideas, lessons learned, and on-the-ground case examples.	**Katerli Bounds** Measuring Success in Urban Forest Restoration	**David Donnenfield** Creating and Using Media (Video, Print Copy, Photos, Websites, etc.) Effectively and Economically	**Christopher Benosky** A Large-Scale Northeastern Ecosystem Restoration Project: Seeing the Design Through Construction
4:00pm	**Peter Hahn** Louisiana's Barrier Islands: The First Line of Defense for Coastal Communities		**Kathryn Terblanche** Functional Forest or Green Desert: Is Durban's Flagship Reforestation Project Meeting Stated Targets?	**Kevin White** Strategies for using STORY and LANGUAGE to Galvanize Support for Restoration and Conservation Efforts	**Natasha Bankhead** Cost-Effective Stream Restoration: Principles and Tools
4:20pm	**Jason Shackelford** Development Of The CPRA Oyster Lease Acquisition And Compensation Program OLACP – From Litigation To Legislation		**Wes Michaels** Urban Grasslands: Strategies for Vacant Lots at the City Scale	**David Donnenfield and Kevin White** Planning for a Media Campaign on Steroids with a Budget on Life Support	**Timothy Love** *Hymenoxys texana* - Endangered Plant Mitigation for New Road
4:40pm	**Kathryn Rose** Capturing A Holistic Understanding Of A Large Marine Ecosystem - NOAA's Gulf Of Mexico Data Atlas		**Eileen Straughan** Restoring Fish Passage on Whitemarsh Run		**Ben Nash** Tropical Stream Channel Relocation Design to Achieve RCRA and Section 404 Clean Water Act Objectives
5:00pm	**PLENARY SESSION: ANNOUNCING . . . LERS - The NEW Large-Scale Ecosystem Restoration Section of SER [Salon B - 1st Floor]** **MODERATOR: Cheryl Ulrich, Dewberry, LERS pro-tem President** LERS provides a forum for exchanging ideas, approaches, lessons learned, and data about large-scale ecosystem restoration program planning, policy, science, and engineering. All CEER attendees involved in large scale restoration are invited to attend this session and learn how you can collaborate with the best and brightest from across the globe to advance ecosystem restoration. Please join us!				
Evening on Own					

Wednesday, July 30, 2014					
3:30pm - 5:00pm	**Concurrent Sessions**				
Session #	**56**	**57**	**58**	**59**	**60**
Location	**Salon G**	**Salon H**	**Salon I**	**Salon J**	**Salon K**
Session Title	**Interface of Monitoring with the Adaptive Management of Ecosystem Restoration Projects**	**Exotic and Invasive Species**	**Landscape Conservation Cooperatives: Setting the stage for Landscape Level Conservation**	**Ecological Restoration on Working Lands: Opportunities and Challenges**	**Real-Time Evaluation, Reporting, and Modeling of Ecosystem Restoration Part 2**
Moderator	**Raed El-Farhan**	**Bridget Zachary**	**Cynthia Edwards**	**Margaret O'Gorman**	**Pamela Telis**
3:30pm	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
3:40pm	**Robert Bevilacqua** Implementation of Adaptive Management Strategies for Bio-Engineered Shoreline Stabilization in Great Egg Harbor Bay	**Michael McTavish** Impacts of Exotic Earthworms on Plant Communities: Implications for Restoration and Invasive Species Management	**Steve Traxler** Landscape Conservation Design and Statewide Sea Level Rise and Urbanization Scenarios for the Peninsular Florida LCC	**Timothy Bent** Ecological Restoration of Bridgestone's New Beginnings Woodlawn Wildlife Area and Warren County Manufacturing Plant	**Sarai Piazza** The Details of Real-Time Report Carding Through Louisiana's Coastwide Reference Monitoring System
4:00pm	**Lori Visone** 10 Years Of Stream Bank Monitoring In Metro Atlanta	**Christopher Gabler** Moisture Regime Governs What Drives Reinvasion during restoration; Evidence of Cryptic Opportunities for Easy Restoration	**Hilary Morris** The South Atlantic Conservation Blueprint 1.0: A Large-Scale Collaborative Response to Change	**Jeffrey Popp** Case Studies of the Baltimore Second Harbor Project	**Craig Conzelmann** Using Coastal Monitoring Data to Build Dynamic Reports and Visualizations Through the Coastwide Reference Monitoring System Website
4:20pm	**Karina Johnston** 4-Year Ecological Assessment of the Ballona Wetlands to Inform Restoration Planning	**Brooklyn Krings** The Pteridophyte Fights Back! Competition between the Invasive Exotic *Eichhornia crassipes* and the State-endangered *Ceratopteris Pteridoides*	**John Tirpak** Establishing Desired Ecological States for Priority Habitat Types to Guide Conservation and Restoration	**Marcy Twete** Ecological Restoration of Black Oak Savannas and Sand Prairies Inside A Steel Mill: Arcelormittal Burns Harbor	**Leonard Pearlstine** Automated Online Ecological Modeling and Evaluation for Everglades Management and Restoration
4:40pm	**Tim Purinton** Creating & Sustaining a Government Ecological Restoration Program	**Mike Eggleston, *on behalf of Kurt Kowalski*** A Novel Approach to Wetland Habitat Restoration: Maximizing Collective Impact Through the *Phragmites* Symbiosis Collaborative	**Amanda Watson** Gulf Coast Vulnerability Assessment: An Approach to Assess Key Drivers of Ecological Change in the Gulf of Mexico	**Margaret O'Gorman** Ecological Restoration on Working Lands: Stakeholder Discussion	**Teresa Rasmussen** Continuous, Real-Time Nutrient Data and Regression Models
5:00pm	**PLENARY SESSION: ANNOUNCING . . . LERS - The NEW Large-Scale Ecosystem Restoration Section of SER [Salon B - 1st Floor]** **MODERATOR: Cheryl Ulrich, LERS pro-tem President** LERS provides a forum for exchanging ideas, approaches, lessons learned, and data about large-scale ecosystem restoration program planning, policy, science, and engineering. All CEER attendees involved in large scale restoration are invited to attend this session and learn how you can collaborate with the best and brightest from across the globe to advance ecosystem restoration. Please join us!				
Evening on Own					

Around the World Restoration

Thursday, July 31, 2014
9:00am – 10:00am
(Salon A)

Moderator:

Cheryl Ulrich, Co-Chair, CEER 2014;
Ecosystem Restoration Department Manager, Dewberry

Speakers:

Kingsley Dixon, SER Regional Representative, Australasia

Samira Omar Asem, SER Regional Representative, Asia

Vera Lex Engel, SER Regional Representative, Latin America/Caribbean

Robert Daoust, ARCADIS,
on behalf of Kris Decleer, SER Regional Representative, Europe

Plenary Session Overview

In this session, SER's international leaders will discuss restoration in an international context, highlighting restoration achievements and approaches in their global regions. The SER Science and Policy Committee's (SPC's) mission is to develop and consider policy and scientific matters of direct relevance to SER members and to the science, politics, economics, business and practice of ecological restoration worldwide. SER impacts global policy directly through ongoing involvement in global restoration efforts, specifically with the International Union for Conservation of Nature (IUCN), United Nations Convention to Combat Desertification (UN-CCD) and the United Nations Convention on Biological Diversity (UN-CBD). The session will conclude with a discussion of SER's new large-scale ecosystem restoration section (LERS) which provides a forum to collaborate internationally.

Thursday, July 31, 2014	
7:30am - 5:00pm	**Registration Open** [Grand Salon Ballroom - 1st Floor]
7:30am - 9:00am	**Morning Refreshments** [Exhibit Hall & Poster Display Area - Hilton Exhibition Center - 2nd Floor]
7:30am - 3:00pm	**Exhibits & Posters on Display** [Hilton Exhibition Center - 2nd Floor]
9:00am - 10:00am	**PLENARY SESSION: Around the World Restoration** [Salon A - 1st Floor] **MODERATOR: Cheryl Ulrich, Co-Chair, CEER 2014;** **Ecosystem Restoration Department Manager, Dewberry** **Kingsley Dixon, SER Regional Representative, Australasia** **Samira Omar Asem, SER Regional Representative, Asia** **Vera Lex Engel, SER Regional Representative, Latin America/Caribbean** **Robert Daoust, ARCADIS** ***on behalf of* Kris Decleer, SER Regional Representative, Europe**
10:00am - 10:30am	**AM Break** [Exhibit Hall and Poster Display Area - 2nd Floor]

Thursday, July 31, 2014					
10:30am - 12:00pm	**Concurrent Sessions**				
Session #	**61**	**62**	**63**	**64**	**65**
Location	**Salon B**	**Salon C**	**Salon D**	**Salon E**	**Salon F**
Session Title	**Mississippi River Restoration from the Headwaters to the Gulf of Mexico**	**Integrated River Basin Management (IRBM): Plan Development, Implementation, and Adaptation**	**Region-Wide Restoration of a Rare Forest Type: Science and Practice in the America's Longleaf Restoration Initiative**	**Large-Scale Remediation and Restoration of Coastal Ecosystems in Saudi Arabia Damaged by the 1991 Gulf War Oil Spill**	**Aquatic Plant Species Restoration**
Moderator	**Marvin Hubbell**	**Steve Mathies**	**Steve Jack**	**Jacqueline Michel**	**Kate Healy**
10:30am	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
10:40am	**Marvin Hubbell** Restoration of the Upper Mississippi River: St. Paul to St. Louis	**Michael Gabaldon** Colorado River Basin Management – Supply and Demand	**Glen Gaines** An Overview of the America's Longleaf Restoration Initiative	**Martin Guard** Overview of UNCC Coastal Remediation Programme in Saudi Arabia	**Brooke Sullivan** *Labyrinthula:* An Overlooked Agent of Global Seagrass Decline and Potential Inhibitor of Seagrass Restoration
11:00am	**Marvin Hubbell, *on behalf of Brian Johnson*** Middle Mississippi River Restoration	**Dick Kevalam** Utilization of an Integrated River Basin Management (IRBM) Approach for the Mekong Delta Development Plan	**Vernon Compton** The Role of Local Implementation Teams in Advancing Longleaf Conservation and Restoration	**Jason Hale** Importance of Adaptive Management in Developing Effective Restoration Methods	**Prince Emeka Ndimele** Effects of Organic Fertilizer Amendment on Phytoremediation of Cu and Fe-Contaminated Aquatic Environment by Water Hyacinth
11:20am	**Angeline Rodgers** Restoring America's Greatest River: Collaborative Efforts Along the Lower Mississippi	**Michael Reuter** Engaging Diverse Stakeholders in a Collaborative, Integrated Management Approach to America's Watershed	**Kevin McIntyre** Wildlife Responses to Longleaf Pine Habitat Structure Restoration	**Linos Cotsapas** Restoration of Heavily Oiled Tidal Flats and Salt Marshes 18 Years After The Gulf War Oil Spill	**Stacey Blersch, *on behalf of David Blersch*** Algae Cultivation for Great Lakes Pollution Recovery
11:40am	**Carol Parsons Richards** Restoration in the Mississippi River Delta: Old River Control Structure to the Gulf of Mexico	**Jerome Zeringue** Louisiana's Master Plan for a Sustainable Coast: Using IRBM to Assimilate Priorities of Multiple Stakeholders	**Robert Sutter** Ecological Restoration Over Space and Time	**Lincoln Smith** Use of Multimetric Indices to Monitor Ecological Recovery	**Nicole Carlozo** Integrating Water Quality And Natural Filters Into Maryland's Marine Spatial Planning Efforts
12:00pm - 1:30pm	**Poster Session Luncheon Buffet** [Exhibit Hall & Poster Display Area - Hilton Exhibition Center - 2nd Floor]				

Thursday, July 31, 2014					
10:30am - 12:00pm	**Concurrent Sessions**				
Session #	**66**	**67**	**68**	**69**	**70**
Location	**Salon G**	**Salon H**	**Salon I**	**Salon J**	**Salon K**
Session Title	**Urban Ecosystem Restoration: Greenspace Planning and Management**	**Ridge and Shoreline Restoration**	**Documenting Carbon Sequestration through Restoration Monitoring**	**Restoring Longleaf Pine Ecosystems: Linking Science and Practice**	**The Role of Innovation and Partnership in the USDA NRCS Approach to Landscape Conservation in the Mississippi River and Gulf of Mexico Basins**
Moderator	**Scott Courtright**	**Scott Bartkowski**	**Mike Hooper**	**Ajay Sharma**	**Martin Lowenfish**
10:30am	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
10:40am	**Jeff Kuehny** Restoration of our Urban Ecology to Improve Water Quality	**Brett McMann** Plaquemines Parish Programmatic Ridge Restoration, Design, and Management	**Michele Abbene** Beyond Remediation: Designing an Alternative Landfill Cover for Habitat Restoration and Carbon Sequestration in an Industrial Corridor	**Joan Walker** Evolving Reference Systems for Longleaf Pine Ecosystem Restoration	**Terrell Erickson** Innovative Ways of Conservation
11:00am	**Keith Villere** Accomplishing Sustainability in our Urban Ecology through Planning, Maintenance and Restoration	**David Polster** Natural Processes for Shoreline Stabilization	**Guerry Holm, Jr** Reducing Scientific Uncertainty of Greenhouse Gas Fluxes from Mississippi River Delta Wetland Projects	**Ajay Sharma** Restoring Southern Pine Plantations to Multifunctional Uneven-Aged Forest Ecosystems	**Mike Daniels** Utilizing the MRBI and the Arkansas Discovery Farm Program to Monitor Conservation
11:20am	**Brian Early** Exotic and Invasive Vegetation Species Control and Impacts to the Urban Ecosystem	**Melinda Donnelly** Application of Living Shoreline Stabilization Methods to Protect Coastal Shell Middens in Mosquito Lagoon, FL	**Phillip van Mantgem** Estimating Ecosystem Carbon Stocks at Redwood National and State Parks	**Jeff Glitzenstein** Effects of Establishment Treatments on Longleaf Groundlayer Plants	**James Bergan** NRCS and TNC Partnership for Landscape Conservation in Louisiana
11:40am	**Scott Courtright** Assessing and Managing the Urban Forest and Calculating the Benefits	**Matthew Clark** Wave Barrier Island Chain Restoration: From Concept To Construction	**Sarah Mack** Overview of the Luling, Louisiana Wetland Carbon Credit Pilot Project	**Shibu Jose** Cogongrass Invasion of the Southeastern Forests: Impacts on Resource Availability, Species Diversity and Productivity	**Galon Hall** The Working Lands for Wildlife Partnership - A New Paradigm in Conservation
12:00pm - 1:30pm	**Poster Session Luncheon Buffet** [Exhibit Hall & Poster Display Area - Hilton Exhibition Center - 2nd Floor]				

Thursday, July 31, 2014					
1:30 – 3:00	**Concurrent Sessions**				
Session #	**71**	**72**	**73**	**74**	**75**
Location	**Salon B**	**Salon C**	**Salon D**	**Salon E**	**Salon F**
Session Title	**Key Drivers of the Mississippi River**	**Lake Pontchartrain Basin Restoration Challenges and Successes**	**Governance and Management Considerations in Ecosystem Restoration and Recovery**	**Words Matter: Using Communications to Improve Restoration Efforts**	**Restoration of Wetland Plant Communities**
Moderator	**Carol Parsons Richards**	**Gregory Miller**	**Ed Theriot**	**Rebeca Bell**	**Steve Crooks**
1:30	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
1:40	**Mead Allison** Key Controls on Sediment Budgeting in the Mississippi River from Source to Sink	**Paul Connor** Biweekly Coastal Monitoring Using Hydrocoast Maps in the Pontchartrain Basin in Southeast Louisiana	**Lynn Wingard** The Role of Paleoecology in Planning for Future Management Scenarios: Examples from the Greater Everglades, Florida	Restoring our natural areas requires people to make specific changes in their behavior. We must use communication techniques to reach target audiences with specific values-based messages. This session will show how communication strategies can make or break efforts to change behaviors and promote sustainable decision-making. We will demonstrate how organizations of all sizes can build messages, make public education and outreach efforts more effective, and strategically integrate communications into their program and restoration work to achieve their environmental goals.	**Julie Whitbeck** Getting to the Roots of Successful Coastal Bald Cypress Restoration
2:00	**Brian Vosburg** Influence of the Major Drainages to the Mississippi River and Implications for System Level Management	**Theryn Henkel** Use of Applied Science for Coastal Restoration in the Pontchartrain Basin of Southeast Louisiana	**Nigel Pontee** Overcoming Barriers to Wetland Restoration - An International Perspective		**Whitney Thornton** How do Restoration Site Characteristics, Plant Caging, and Parental Source Affect Native Pacific Cordgrass Establishment?
2:20	**John Anfinson** Driven Into a Corner: How the Mississippi's Past Will Define Its Future	**Amanda Moore** Public Engagement in Pontchartrain Basin Restoration	**Jeremy Hanson** The Counting Challenge: BMPs In The Chesapeake Bay Watershed		**Christopher May** Erie Marsh Preserve Coastal Wetland Restoration
2:40	**Gretchen Benjamin** An Overview of 40 Years of Protection and Restoration on the Mississippi River Mainstem	**Charles Allen** City of New Orleans Coastal Restoration Efforts	**Ryan Clark** The Water Institute of the Gulf Innovation Program		**Loretta Battaglia** Assisted Colonization Of Coastal Communities
3:00 - 3:30	**PM Break and Poster Presenters to Remove Displays** [Exhibit Hall and Poster Display Area - Level 2]				
3:30 - 5:30 pm	**Exhibitor Move-Out** [Exhibit Hall and Poster Display Area - Level 2]				

Thursday, July 31, 2014					
1:30pm – 3:00pm	**Concurrent Sessions**				
Session #	**76**	**77**	**78**	**79**	**80**
Location	**Salon G**	**Salon H**	**Salon I**	**Salon J**	**Salon K**
Session Title	**The Practical Application of Ecosystem Restoration – Learning What to Replicate and What to Avoid**	**Hydrologic and Vegetative Restoration of Urban Affected Parks: Approaches and Outcomes**	**International Restoration Efforts**	**Reef Restoration**	**Importance and Role of Groundwater in Restoration**
Moderator	**Britt Paul**	**Jere Boudell**	**Patrick Pitts**	**Jason Shackelford**	**Adrienne Mason**
1:30pm	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
1:40pm	**Kevin Roy** CWPPRA: Programmatic Lessons Learned	**Beth Middleton** Freshwater Restoration of Tidal Swamps: Lessons from Remediation During the Deepwater Horizon Incident	**Yosihiro Natuhara** Biodiversity Restoration in Intensive Rice Fields in Japan	**Susan Conner** Evaluating Success on Restored Oyster Reef Sanctuaries in the Chesapeake Bay	**Monica LaSelva** Iterative Planning of Ecological Restoration and its Incorporation into Soil and Groundwater Remediation
2:00pm	**Kenneth Bahlinger** Lessons Learned on Coastal Restoration Projects	**Bryan Brown** Spatial Context Alters Efficacy of Stream Biodiversity Restoration	**Donald Rayome** Novel Ecosystem Management Strategies in Borneo	**Linda Walters** Oyster Reef Restoration and Boating Activity	**Dan Billman** Innovative Water Solutions and Restoration Using the Envision™ Sustainable Infrastructure Rating System
2:20pm	**Loland Broussard** Restoration of an Important Coastal Seabird Habitat in Louisiana - The Raccoon Island Project	**Jere Boudell** Urban Stream Restoration in the Georgia Piedmont: Policy, Practice, and Novel Ecosystems	**Meshal Abdullah** Assessing the Current Condition of Damaged Ecosystem - Case Study for UMM Negga Site in the State of Kuwait	**Jim McFarlane** 22 Years of Worldwide Reef Ball Coastal Restoration	**Lisa Tenning** Life to Ad(d)mire; Mire Restorations in Sweden
2:40pm	**Darryl Clark** Coastal Louisiana Restoration Project Lessons Learned – 1990-2013	**Brad Herrick** Challenges and Opportunities to Managing an Urban Natural Area: Perspectives from the University Of Wisconsin-Madison Arboretum	**Swidiq Mugerwa** Evaluation of Pasture Restoration Techniques on Degraded Bare Surfaces in the Rangelands of Uganda	**Baruch Rinkevich** Rebuilding Coral Reefs Through the Gardening Concept: Active Reef Restoration May Lead to Sustainable Reefs	**Matthew Grabau** Managing Salinity and Soil Moisture Along Regulated Rivers: Applied Research to Enhance Restoration Success
3:00pm - 3:30pm	**PM Break and Poster Presenters to Remove Displays** [Exhibit Hall and Poster Display Area - Level 2]				
3:30pm - 5:30pm	**Exhibitor Move-Out** [Exhibit Hall and Poster Display Area - Level 2]				

Thursday, July 31, 2014					
3:30pm - 5:00pm	**Concurrent Sessions**				
Session #	**81**	**82**	**83**	**84**	**85**
Location	**Salon B**	**Salon C**	**Salon D**	**Salon E**	**Salon F**
Session Title	**Using the Mississippi River for Large Scale Ecosystem Restoration: Innovations in Land Building**	**Community Approaches to Restoration**	**Restoring Water Quality in the Florida's Everglades and Florida Keys**	**Indicators of Functional Equivalency for Assessing Restoration Success**	**Innovative Approaches, Methods, and Techniques**
Moderator	**Cynthia Duet**	**Nick Aumen**	**Henry Briceño**	**Matthew Harwell**	**Chuck Perrodin**
3:30pm	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
3:40pm	**Neil McLellan** Engineering and Design of Mid Barataria Sediment Diversion Project	**Stan Wilson** Discovery Hill: A Public Demo Garden Using Restoration Principles	**Diego Lirman** Salinity and Nutrient Impacts on SAV Abundance and Distribution in Biscayne Bay	**Kevin Dillon** Assessing Ecosystem Functional Equivalence between Constructed and Natural Oyster Reefs with Stable Isotopes	**Euan Reavie** Restoration Requires Retrospection
4:00pm	**Bill Hanson** What's Next For Louisiana Barrier Island Construction	**Robert Wright** Living on the Water's Edge - A Neighborhood Approach to Stormwater Management	**Frank Marshall** Improvements to FATHOM a Salinity and Water Quality Model for Florida Bay: Lessons Learned for Everglades Restoration	**Susan Bell** Seagrass Restoration and Ecosystem Services: Challenges of Measuring the Necessary Ecosystem Functions	**David Kaplan** Ground Fire Effects and Implications for Fire Management
4:20pm	**Paul Tschirky** Sustainably Building Wetlands with River Sediment: the Mississippi River Long Distance Sediment Pipeline	**Arlene Hopkins** Community Redevelopment of Social Ecological Systems to Enhance Community Resilience Using Ecological Restoration	**Patrick Pitts** Application of a Salinity Performance Measure for Everglades Restoration Planning	**Nicole Cormier** Surface Elevation Change and Vertical Accretion in Created Mangroves in Tampa Bay, Florida, USA	**Michael Burton** Creating Intertidal Submerged Aquatic Vegetation Habitat From Fallow Farmland
4:40pm	**John Lopez** Analysis and Lessons Learned from Mardi Gras Pass (MGP) within the Bohemia Spillway, SE Louisiana	**Simeon Hahn** Federal Urban Water Partnership- Philadelphia and the Urban Delaware River	**Henry Briceño** Assessing Water Quality Changes Due to Restoration Alternatives: Coastal Everglades, Florida	**John Callaway** Measuring Functional Equivalency in Restored Tidal Wetlands: Are We There Yet?	**Jennifer Pierre** Habitat Conservation Plans and Large-Scale Ecosystem Restoration in California's Bay Delta Region
Evening on Own					

Thursday, July 31, 2014					
3:30pm - 5:00pm	**Concurrent Sessions**				
Session #	**86**	**87**	**88**	**89**	**90**
Location	**Salon G**	**Salon H**	**Salon I**	**Salon J**	**Salon K**
Session Title	**Stream Restoration Strategies and Considerations**	**Ecosystem Assessment and Restoration: Current Principles and Practices, Innovative Tools and Emerging Trends**	**Gulf Coast Mangrove Restoration: A Regional Perspective for a Changing World**	**Land Conservation in the Age of Shrinking Budgets**	**Coastal Modeling and Mapping**
Moderator	**Kelly Mattfield**	**Sarah Miller**	**Carey Perry**	**Juan Moya**	**Michelle Orr**
3:30pm	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**	**Session Overview**
3:40pm	**Ted Shear** The Impacts of Stream Restoration on the Soils and Vegetation of Riparian Zones in Central North Carolina, USA	**Sarah Miller** Reference Concepts in Ecosystem Restoration and Environmental Benefits Analysis: Principles and Practices	**Michael Osland** Mangrove Restoration and Migration In a Changing Climate: Climatic Drivers and Shifting Ecotones	**Michael Sullivan** Targeted Approaches for Private Lands Conservation	**Tracy Drury** Geddes Brook and Ninemile Creek Channel and Wetland Restoration at Onondaga Lake
4:00pm	**Karen Hall** A Five Year Study of Container and Bareroot Tree Survival on a Stream Restoration Project in Central North Carolina	**Richard Rheinhardt** What is an Appropriate Reference Framework for Ecological Assessment, Restoration and Monitoring?	**Anna Armitage** The Ecological Benefits and Potential Risks of Mangrove Restoration within the Texas Salt Marsh-Mangrove Ecotone	**Garrett Wallace** Protecting Panther Habitat in Florida	**Kate Shepard Watkins** Development and Adaptation of the CASM to Evaluate Food Web Dynamics and Species Responses in Barataria Basin
4:20pm	**James Olson** Assessing the Impact of Culvert Design on Three Ecosystem Functions in Northern Wisconsin Streams	**Tom Herder** Mobile Bay National Estuary Program Three Mile Creek Watershed Management Plan	**Jonathan Willis** Environmental Constraints on Black Mangrove Restoration	**Keith Bowers** Trophic Cascades, Habitat Fragmentation and Climate Change - The Need to Reconnect, Rewild and Restore Terrestrial Landscapes	**James Beerens** Modeling Spatio-Temporal Responses of Wading Bird Indicator Species Across Resource Gradients for Wetland Restoration
4:40pm	**Bryan Dick** Schoharie County Stream Restoration Project: Restoring Natural Stream Function	**Charles Theiling** Topographic Diversity Index for Floodplain Forest Restoration	**Roy R. "Robin" Lewis III** Hydrologic Restoration is Critical, Planting Mangrove Seedlings is Not	**Maksym Polyakov** Accounting for Private Benefits in Targeting Ecological Restoration	**Discussion**
Evening on Own					

Gulf Coast Ecosystem Restoration – RESTORE – Deepwater Horizon

Friday, August 1, 2014
9:00am – 10:15am
(Salon A)

Moderator:

Don Boesch, President, University of Maryland Center for Environmental Science

Speakers:

Justin Ehrenwerth, Executive Director, Gulf Coast Ecosystem Restoration Council

Kyle Graham, Executive Director,
Coastal Protection and Restoration Authority (CPRA), Baton Rouge, LA

Tanner Johnson, Director,
Gulf Environmental Benefit Fund Director (Louisiana and Texas)

Plenary Session Overview

This discussion will focus on restoration plans and programs such as RESTORE, NRDA, the Gulf Environmental Fund and the Louisiana State Master Plan. Speakers will consider:

1. how these components will work together to maximize comprehensive ecosystem restoration,
2. what challenges the community of practice represented at the conference should work to address, and
3. how we will account for outcomes, both technically and to the public, in truly adaptive execution—a question that former Senator Bob Graham emphasized repeatedly in deliberations of the Oil Spill Commission.

Following brief opening presentations by each panelist, the session's moderator, Don Boesch, will facilitate a discussion among the panelists and with the audience.

Friday, August 1, 2014	
7:30am – 9:00am	**Registration and Morning Refreshments** [Salon A Pre-Function Area - 1st Floor]
9:00am - 10:15am	**PLENARY SESSION: Gulf Coast Ecosystem Restoration – RESTORE – Deepwater Horizon** [Salon A- 1st Floor] **MODERATOR: Don Boesch**, President, University of Maryland Center for Environmental Science **Justin Ehrenwerth**, Executive Director, Gulf Coast Ecosystem Restoration Council **Kyle Graham**, Executive Director, Coastal Protection and Restoration Authority (CPRA), Baton Rouge, LA **Tanner Johnson**, Director, Gulf Environmental Benefit Fund Director (Louisiana and Texas)

Advancing Policy for Ecosystem Restoration Funding

Friday, August 1, 2014
10:15am - 11:30am
(Salon A)

Moderator:

Steve Cochran, Environmental Defense Fund

Speakers:

Gerald Edward Galloway, Research Professor,
University of Maryland, Glenn L. Martin Institute Professor of Engineering

Dan Mecklenborg, Senior Vice President and Chief Legal Officer,
Ingram Barge Company

Lynn Scarlett, Managing Director for Public Policy, The Nature Conservancy and Former Deputy Secretary of the Department of the Interior

Plenary Session Overview

This session will focus on how to recalibrate systems and levels of funding available for ecosystem restoration. The defining characteristic of restoration funding over the last two decades has been post-disaster response. The need for strategies for responding to climate and other environmental changes through restoration and adaptation far surpass any estimate of the resources available for such efforts. Systems based approaches to addressing these issues are preferred, but individual project funding is dominant. Even where integrated planning is in place, financial needs far outstrip government resources. This plenary discussion is intended to bring together experts who can provide provocative ideas that might lead to new approaches to both systems and financing of ecosystem restoration initiatives. Speakers will reflect on the following questions:

1. How do we fund restoration work above and beyond current federal and state levels,
2. How do we create systems that allow use of funding provided by non-profits and for profit entities, in addition to federal and state funds,
3. How do we implement valuation of ecosystem services, and
4. How do we concretely demonstrate and communicate restoration benefits to stakeholders and communities?

Friday, August 1, 2014	
10:15am - 11:30am	**PLENARY SESSION: Advancing Policy for Ecosystem Restoration** [Salon A - 1st Floor] **MODERATOR: Steve Cochran**, Environmental Defense Fund **Gerald Edward Galloway**, Research Professor, University of Maryland, Glenn L. Martin Institute Professor of Engineering **Dan Mecklenborg**, Senior Vice President and Chief Legal Officer, Ingram Barge Company **Lynn Scarlett**, Managing Director for Public Policy, The Nature Conservancy and Former Deputy Secretary of the Department of the Interior
11:30am - 11:45am	**CLOSING SESSION: Recognition & Awards Ceremony** [Salon A - 1st Floor] **MODERATOR: Cheryl Ulrich, Co-Chair, CEER 2014; and Ecosystem Restoration Department Manager, Dewberry**
11:45am	Conference Concludes

Poster Display Information

Poster presentations play a key role in the success of CEER 2014. Much time will be dedicated for viewing posters, allowing scientists, policy makers, planners, practitioners and managers to interact and use these opportunities to share details of their work, successes and lessons learned.

- Early morning, mid-day and afternoon refreshments will be served in the poster session room each day. In addition, there will be a Welcome Networking Social on Tuesday evening and a formal Poster Session Luncheon Buffet on Thursday. (See detailed schedule below)
- NOTE: **All posters will be on display the entire conference.** Poster presenters will be asked to stand at their poster during the Poster Session Luncheon Buffet on Thursday.

Events to be held in the Exhibit Hall	
WELCOME NETWORKING SOCIAL	**Tuesday, July 29, 5:00pm - 6:30pm**
POSTER SESSION NETWORKING LUNCHEON BUFFET	**Thursday, July 31, 12:00pm - 1:30pm**
POSTER REMOVAL	**Thursday, July 31, 3:00pm - 3:30pm**

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NOAA's mission touches the lives of every American and we are proud of our role in protecting life and property and conserving and protecting natural resources. I hope you will explore NOAA and how our products and services can enrich your own life.

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Directory of Poster Presentations

Posters are on display the entire conference

Listed by Alphabetically by Presenting Author
Presenting author names are in **bold**.

Poster Number

89 **AQUA-ECONOMIC MAPPING: CONCEPT NOTES -- M.A. Anetekhai** and O.O. Whenu; Department of Fisheries, Faculty of Science, Lagos State University, Ojo, Lagos, Nigeria

85 **TESTING THE ABILITY OF BIOFOUL FOR THE PURPOSES OF ENHANCED REMEDIATION OF ACID MINE DRAINAGE -- Robert Bazeley[1]**, Penny L. Morrill[1], Abigail Steel[2], Peter Mercer[3] and Tao Cheng[1]; [1]Department of Earth Science, Memorial University of Newfoundland, Canada; [2]Mineral Development Division, Department of Natural Resources, Newfoundland, Canada; [3]Rambler Metals and Mining PLC, Newfoundland, Canada

24 **COASTAL REHABILITATION THROUGH SUSTAINABLE MANAGEMENT OF MANGROVE COMMUNITIES IN KUWAIT -- N. R. Bhat** and M. K. Suleiman; Kuwait Institute for Scientific Research, Kuwait

57 **AN OVERVIEW OF GOODS AND SERVICES OF THE ARID ECOSYSTEM IN NORTHWESTERN COASTAL REGION, EGYPT -- Laila M.M. Bidak** and Selim Z. Heneidy; Botany & Microbiology Department, Alexandria, Egypt

61 **EVALUATING THE INFLUENCE OF DISTURBANCE ON MACROINVERTEBRATE COLONIZATION AND DECOMPOSITION OF LEAF PACKS IN UPPPER COASTAL PLAIN HEADWATER STREAMS -- Rich A. Biemiller[1]**, DE Fletcher[2], CD Barton[3]; [1]Department of Entomology, University of Kentucky, Lexington, KY, USA; [2]Savannah River Ecology Laboratory, University of Georgia, Aiken, SC, USA; [3]Department of Forestry, University of Kentucky, Lexington, KY, USA

75 **METRIC SELECTION TO ESTABLISH A CONDITION GRADIENT BETWEEN NATURAL AND IMPAIRED NORTHEAST OHIO HEADWATER STREAM SYSTEMS AS A BASIS FOR EVALUATION OF RESTORATION PERFORMANCE -- Joel Bingham**; University of Akron, Akron, OH, USA

65 **USING STREAM METABOLIC MEASUREMENTS TO QUANTIFY RESTORATION OF ECOSYSTEM SERVICES OF IMPAIRED STREAMS PRE AND POST RESTORATION -- Stacey Sloan Blersch**; University at Buffalo, Civil Structural and Environmental Engineering, Buffalo, NY, USA

29 **A WATERSHED APPROACH TO RESTORE FLORIDA'S COASTAL COMMUNITIES -- Darryl Boudreau[1]**, Anne Birch[2] and Janet Bowman [3]; [1]The Nature Conservancy, Milton, FL, USA; [2]The Nature Conservancy, Indialantic, FL, USA; [3]The Nature Conservancy, Tallahassee, FL, USA

28 **ACCELERATING RECOVERY AFTER THE *DEEPWATER HORIZON* OIL SPILL: RESPONSE OF THE MACROINVERTEBRATE COMMUNITIES TO SHORELINE OILING EFFECTS --** Donald R. Deis[1], **Stefan M. Bourgoin[2]**, Irving A. Mendelssohn[3], Qianxin Lin[3], Aixin Hou[3], John Fleeger[3], Sean Graham[3]; [1]Atkins, Jacksonville, FL, USA, [2]Atkins, Tallahassee, FL, USA, [3]Louisiana State University, Baton Rouge, LA, USA

13 **RESTORATION STRATEGY OF MEDITERRANEAN COASTAL LAGOONS -- N. Caiola**, C. Ibáñez, A. Bertolero, S. Rivaes; IRTA Aquatic Ecosystems, Sant Carles de la Ràpita, Catalonia, Spain

66 **INTEGRATING FLOOD RISK MANAGEMENT AND SALMON HABITAT RESTORATION PRIORITIES IN PUGET SOUND: GIS SITE PRIORITIZATION -- Scott W. Campbell[1]**, Nancy C. Gleason[1], Christopher P. Konrad[2]; [1]U.S. Army Corps of Engineers, Seattle District, Seattle, WA, USA, [2]U.S. Geological Survey, Washington Water Science Center, Tacoma, WA, USA

5 **ARCHEOLOGY AND EVERGLADES RESTORATION -- Grady H. Caulk**; U.S. Army Corps of Engineers, Jacksonville, FL, USA

Poster Number

39 **DECLINE AND DISAPPEARANCE OF SUBMERGED AQUATIC VEGETATION IN THE RIO CRUCES ESTUARY, CHILE** -- R.B. Nairn[1], Q. Lu[1], E.G. Reinhardt[2], D.A. Brunton[1], M.J. Risk[2], **M.J. Clark[1]**; [1]W.F. Baird & Associates, Oakville, Ontario, Canada; [2]McMaster University, Hamilton, Ontario, Canada

2 **HYPOTHETICAL WATER SURFACES FOR EVALUATING EVERGLADES ECOSYSTEM RESTORATION -- Paul A. Conrads[1]** and Ruby Daamen[2]; [1]USGS South Carolina Water Science Center, Columbia, SC, USA; [2]Advanced Data Mining International, Greenville, SC, USA

1 **AUTOMATED DATA ASSURANCE AND MANAGEMENT (ADAM) SOFTWARE FOR REAL-TIME QUALITY CONTROL FOR THE EVERGLADES DEPTH ESTIMATION NETWORK (EDEN) --** Matthew D. Petkewich[1], Ruby C. Daamen[2], and **Paul A. Conrads[1]**; [1]USGS South Carolina, Water Science Center, Columbia, SC, USA; [2]Advanced Data Mining Intl., Greenville, SC, USA

45 **SUCCESSION IN TUNDRA LANDSCAPES AND ITS IMPLICATIONS FOR POLAR RESTORATION EFFORTS: CASE STUDY OF HERSCHEL ISLAND, YT, CANADA – Heather A. Cray[1]**, Wayne H. Pollard[2] and Stephen D. Murphy[1]; [1]University of Waterloo, Waterloo, Ontario, Canada; [2]McGill University, Montreal, Quebec, Canada

71 **WATER QUALITY PERFORMANCE OF WETLANDS RECEIVING NONPOINT SOURCE NITROGEN LOADS: BENEFITS OF TARGETED WETLAND RESTORATIONS -- William G. Crumpton**, Greg A. Stenback and David Green; Department of Ecology, Evolution and Organismal Biology, Iowa State University, Ames, IA, USA

63 **ECOSYSTEM SERVICES OF RIPARIAN FOREST UNDER WATER STRESS – EXAMPLIFIED AT THE LOWER REACHES OF TARIM RIVER, NW CHINA -- Bernd Cyffka** and Martin Kuba; Catholic University of Eichstaett-Ingolstadt, Applied Physical Geography, Germany

52 **ENHANCING ESTABLISHMENT OF WHITE OAK AND AMERICAN HAZELNUT ENRICHMENT PLANTS IN A MESIC FOREST USING UNDERSTORY REMOVAL AND GROUP SELECTION -- Kurt M. Dreisilker**[1], Jeffrey Dawson[2] and Andrew Koeser[3]; [1]The Morton Arboretum, Lisle, Illinois, USA; [2]University of Illinois at Urbana-Champaign, Urbana, Illinois, USA; [3]Department of Environmental Horticulture, University of Florida – GCREC, Wimauma, FL, USA

22 **THE EFFECTS OF CORAL GENOTYPE ON RESTORATION SUCCES IN THE THREATENED CARIBBEAN STAGHORN CORAL, *ACROPORA CERVICORNIS* -- Crawford Drury** and Diego Lirman; Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, FL, USA

7 **EVERGLADES RESTORATION: THE LEGEND, THE DREAM, THE REALITY -- Dennis R Duke[1]**, Stuart Appelbaum[2]; [1]U.S. Department of the Interior, Davie, FL USA; [2]ARCADIS U.S., Inc., Jacksonville FL, USA

44 **ADVANCING THE GULF COAST PRAIRIE LCC SCIENCE STRATEGY -- Cynthia K. Edwards**; Gulf Coast Prairie LCC, Lafayette, LA, USA

33 **CITYWIDE ECOLOGICAL ASSESSMENT: A TOOL FOR PROIRITIZING MANAGEMENT IN NYC -- Helen M. Forgione**, Clara Pregitzer, Sarah Charlop-Powers and Bram Gunther; Natural Areas Conservancy, New York City, NY, USA

60 **EVALUATION OF SUCCESS IN TAMARIX CONTROL EFFORTS IN THE COLORADO AND RIO GRANDE CATCHMENTS** -- **Eduardo González**[1,2,3], Anna A Sher[3*], Eric Tabacchi[1,2], Adrià Masip[4], Monique Poulin[5]; [1] Université de Toulouse; INP, UPS, EcoLab (Laboratoire Ecologie Fonctionnelle et Environnement), Toulouse, France, [2] CNRS, EcoLab, Toulouse, France; [3] Department of Biology, University of Denver, CO, USA; [4] Pyrenean Institute of Ecology, Spanish National Research Council, Zaragoza, Spain, [5] Department de Phytologie, FSAA, Université Laval, Québec City, Québec, Canada

Poster Number

58 **DRIVERS OF PLANT COMPOSITION IN RIPARIAN AND ISOLATED SWAMPS OF SOUTHEASTERN CANADA --** Laurie Bisson-Gauthier[1,2,3], Marcel Darveau[2,3,1], Richard Fournier[4], **Eduardo González**[5,6,7*], Monique Poulin[1,3]; [1]Département de Phytologie, Faculté des Sciences de l'Agriculture et de l'Alimentation, Université Laval, Québec City, Québec, Canada; [2]Québec Centre for Biodiversity Science, Department of Biology, McGill University, Montréal, Québec, Canada; [3]Environmental Research Institute, Centre for Energy and Environment, The North Highland College, Scotland, United Kingdom; [4]Université de Toulouse, INP, UPS; EcoLab (Laboratoire Ecologie Fonctionnelle et Environnement), Toulouse, France, [5]CNRS, EcoLab, Toulouse, France, [6]Department of Biology, University of Denver, Denver, CO, USA

59 **RELATIVE IMPORTANCE OF SPATIAL COMPONENTS OVER LOCAL FACTORS IN PLANT SUCCESSION OF RIPARIAN ZONES RESTORED BY PLANTATIONS --** B Bourgeois [1,2], and A Vanasse [1], R Andersen [3], **E Gonzalez** [4,5,6], M Poulin [1,2]; [1]Département de Phytologie, Faculté des Sciences de l'Agriculture et de l'Alimentation, Université Laval, Québec (Québec), Canada, [2]Québec Centre for Biodiversity Science, Department of Biology, McGill University, Montréal (Québec), Canada, [3]Environmental Research Institute, Centre for Energy and Environment, The North Highland College, Scotland, United Kingdom, [4]Université de Toulouse; INP, UPS; EcoLab (Laboratoire Ecologie Fonctionnelle et Environnement), Toulouse, France, [5]CNRS, EcoLab, Toulouse, France, [6]Department of Biology; University of Denver; Denver, CO, USA

46 **BLOODROOT (*SANGUINARIA CANADENSIS)* AS A DETERRENT TO THE SPREAD OF INVASIVE GARLIC MUSTARD (*ALLIARIA PETIOLATA)* -- Gwyneth L. Govers**[1], M. Alex Smith[2] and Stephen D. Murphy[1]; [1]University of Waterloo, Waterloo, ON, Canada; [2]University of Guelph, Guelph, ON, Canada

49 **REFORESTING APPALACHIAN SURFACE MINES: A BLACK WALNUT PILOT STUDY (NURSERY STOCK VS. SEED, WITH OR WITHOUT TREE SHELTERS) -- Sarah L. Hall**[1], Christopher D. Barton[2], and Patrick N. Angel[3]; [1]Berea College Agriculture & Natural Resources, Berea, KY, USA, [2]University of Kentucky Department of Forestry, Lexington, KY, USA, [3]US Department of Interior Office of Surface Mining, London, KY, USA

18 **COASTAL BIOENGINEERING FOR ECOLOGICAL RESTORATION** -- **Steven G. Hall,** Jon D. Risinger Matthew Byrum; Biological and Agricultural Engineering, LSU AgCenter, Baton Rouge, LA, USA

81 **PUTTING HUMANS BACK IN THE ECOSYSTEM: DEVELOPING HUMAN DIMENSIONS TOOLS FOR LARGE ECOSYSTEM RECOVERY PLANNING IN PUGET SOUND -- Haley Harguth**[1], Kelly Biedenweg[2] and Kari Stiles[1]; [1]Puget Sound Partnership, Tacoma, WA, USA; [2]University of Washington - Tacoma, Puget Sound Institute, Tacoma, WA, USA

35 **A MODEL FOR IDENTIFYING SITES SUSCEPTIBLE TO CHINESE PRIVET (*LIGUSTRUM SINENSE*) INVASION IN THE APPALACHIAN PIEDMONT --** Donald L. Hagan, Elena A. Mikhailova, Timothy M. Shearman, Patrick T. Ma, Jedidah S. Nankaya, **Samantha K. Hart**, Hillary E.Valdetero, William C. Bridges and He Yun; Clemson University, Clemson, SC, USA

82 **EFFECTS OF THREE MANAGEMENT STRATEGIES ON 30 YEAR OLD BOTTOMLAND HARDWOOD RESTORATION SITE -- Matthew Herron** and Joydeep Bhattacharjee; University of Louisiana at Monroe, Monroe, LA, USA

54 **EXPLORING NATIVE PRAIRIE GRASSES AS COMPETITERS TO SUPPRESS GROWTH OF THE INVASIVE GRASS *SORGHUM HALEPENSE* -- Cris G. Hochwender**, Samantha Montomery, Nicole Kreuzman and Stephanie Tran; University of Evansville, Evansville, IN, USA

51 **SEED ZONES AND PLANT MATERIAL MOVEMENT GUIDELINES IN THE PACIFIC NORTHWEST: PAST, PRESENT AND FUTURE -- Matt Horning**; USDA Forest Service, Bend, OR, USA

62 **REINTRODUCTION OF ANADROMOUS SALMONIDS ABOVE SHASTA DAM: OPPORTUNITIES AND CHALLENGES --** John Hannon[1], Stephanie Theis[2], Keith Marine[3], **Jamil Ibrahim[2]** and Craig Moyle[2]; [1]U.S. Bureau of Reclamation, Sacramento, CA, USA; [2]MWH Americas, Inc., Sacramento, CA, USA; [3]North State Resources, Inc., Redding, CA, USA

34 **CHALLENGES IN PLANNING URBAN STREAM RESTORATION PROJECTS -- Heather N. Jensen**; U.S. Army Corps of Engineers, Philadelphia District, Philadelphia, PA, USA

Poster Number

67 **HYDROLOGIC RESPONSE OF HILLSLOPE SEEPS AND HEADWATER STREAMS OF THE FORT WORTH PRAIRIE -- Shannon L. Jones** and Michael Slattery; School of Geology, Energy, & the Environment, Texas Christian University, Fort Worth, TX, USA

32 **IMPORTANT SYMBIONTS OF *SPARTINA ALTERNIFLORA* ARE SENSITIVE TO RESTORATION STATUS -- Demetra Kandalepas**, Michael J. Blum, Sunshine A. Van Bael; Ecology and Evolutionary Biology, Tulane University, New Orleans, LA USA

50 **RESTORING WET PINE SAVANNAH IMPACTED BY DITCH CONSTRUCTION IN HANCOCK COUNTY, MISSISSIPPI, USA** -- **James P. Kelly**; 3Point Eco-Logical, LLC, Ocean Springs, MS, USA

8 **UPSTREAM CONSTRAINTS AND THEIR EFFECTS ON QUANTITY, QUALITY, TIMING, & DISTRIBUTION OF EVERGLADES WATERS TO THE SOUTH FLORIDA ESTUARIES -- Susan K. Kemp**[1,2], Gina P. Ralph[1] and Cynthia G. Thomas[1]; [1]U.S. Army Corps of Engineers, Jacksonville, FL, USA; [2]U.S. Geological Survey, Corvallis, OR, USA

12 **NORTHEAST FLORIDA BAY MINIMUM FLOWS AND LEVELS UPDATE, 2013 USING THE REGIONAL SIMULATION MODEL -- Fahmida Khatun**, Jose M. Otero and Sashi Nair; [1]South Florida Water Management District, West Palm Beach, FL, USA

14 **REVEGETATION EXPERIMENT REVEALS NATIVE PLANT THRESHOLDS REQUIRED FOR ARTHROPOD ASSEMBLAGE RESTORATION -- Denise A. Knapp**; University of California, Santa Barbara, CA, USA; Santa Barbara Botanic Garden, Santa Barbara, CA, USA

40 **ECOGIG* AND TELESCIENCE: RESEARCH CRUISES UTILIZE IMMERSIVE TECHNOLOGY FOR DWH STUDIES AND RECOVERY EDUCATION -- Christine Laporte**[1], Charles Fisher[2], Katherine L.C. Bell[3], Allison Fundis[3], Samantha Joye[1]; [1]Department of Marine Sciences, University of Georgia, Athens, GA, USA; [2]Department of Biology, Pennsylvania State University, University Park, PA, USA; [3]Ocean Exploration Trust, New London, CT, USA

6 **EVERGLADES ECOSYSTEM RESTORATION STATUS: SCIENCE BASED ASSESSMENT OF RESTORATION PROGRESS -- A. LoSchiavo**[1], Tom Dreschel[2], G. Ehlinger[1], P. Gorman[2], S. Gray[2], S. Kemp[3], A. McLean[4], M. Meyer[5], A. Patterson[1], P. Pitts[5], A. Rodusky[2], D. Rudnick[4], S. Schubert[5], F. Sklar[2] and S. Traxler[5]; [1]U.S. Army Corps of Engineers, Jacksonville, FL, USA; [2]South Florida Water Management District, West Palm Beach, FL, USA; [3]U.S. Geological Survey, Corvalis, OR, USA; [4]National Park Service, Homestead, FL, USA; [6]U.S. Fish and Wildlife Service, Vero Beach, FL, USA

53 **RESTORATION OF FORB AND WOODY SPECIES IN THE TEXAS HILL COUNTRY -- David Mahler**; Environmental Survey, Inc, Austin, TX, USA

68 **INNOVATIVE APPROACH FOR USING BUILT WATER RESOURCES INFRASTRUCTURE FOR ECOSYSTEM RESTORATION -- Thomas J. Maier**[1], Conrad Weiser[1], David L. Smith[2], John M. Nestler[3] and John Stark[4]; [1]U.S. Army Corps of Engineers-LRP, Pittsburgh, PA, USA; [2]USACE-Engineer Research & Development Center, Vicksburg, MS, USA; [3]Badger Technical Services, Vicksburg, MS, USA; [4]The Nature Conservancy-Ohio Freshwater Program, Dublin, OH, USA

48 **HOW MUCH IS THE CARBON SINK IN THE VEGETATION OF A TROPICAL PASTURE? -- Jose L. Martinez**, Ofelia Castillo and Luisa Camara; Universidad Juarez Autonoma de Tabasco, Mexico

72 **STREAM RESTORATION DESIGN – ECOLOGICAL RESTORATION AND TMDL COMPLIANCE -- Kelly S. Mattfield**; Brown and Caldwell, Milwaukee, WI, USA

64 **THE ISLANDS OF THE DELAWARE RIVER:USING GIS TO PRIORITIZE RESTORATION AND CONSERVATION EFFORTS -- Carol M. Maxwell** and Ben Gardner; Temple University Ambler, PA, USA

72 **STREAM RESTORATION DESIGN – ECOLOGICAL RESTORATION AND TMDL COMPLIANCE -- Kelly S. Mattfield**; Brown and Caldwell, Milwaukee, WI, USA

64 **THE ISLANDS OF THE DELAWARE RIVER:USING GIS TO PRIORITIZE RESTORATION AND CONSERVATION EFFORTS -- Carol M. Maxwell** and Ben Gardner; Temple University Ambler, PA, USA

Poster Number

55 **EARLY DAYS OF SHRUBLAND REHABILITATION IN AN ARID COASTAL SETTING: INSIGHT GAINED THROUGH PILOT PROJECTS AND TRIAL AND ERROR AT A SEA SALT FACILITY IN WESTERN AUSTRALIA -- C. Ellery Mayence[1,2]**, Dale Van Beem[3], Eefje Broenland[4] and Mike McKeough[3]; [1]School of Plant Biology, University of Western Australia, Crawley, WA, Australia; [2]Kings Park and Botanic Garden, West Perth, WA, Australia; [3]Shark Bay Resources, Useless Loop, WA, Australia; [4]Shark Bay Resources, Perth, WA, Australia

19 **AN ALTERNATIVE METHOD FOR OFFSHORE REVETMENTS -- Wayne D. McCoy**; Mid Atlantic Environmental LLC, Virginia Beach, VA, USA

26 **22 YEARS OF WORLDWIDE REEF BALL COASTAL RESTORATION -- Jim McFarlane**; Reef Ball Foundation, Gainesville, FL, USA

25 **VISUALIZING CLIMATE CHANGE SCENARIOS FOR FLORIDA'S RESTORATION AND CONSERVATION EFFORTS -- Mark McKelvy[1]**, Craig P. Conzelmann[2], Stephanie S. Romañach[1] and James Darcey[3]; [1]U.S. Geological Survey, Gainesville, FL, USA; [2]U.S. Geological Survey, Lafayette, LA, USA; [3]Five Rivers Services, LLC, Colorado Springs, CO, USA

69 **LOWER MISSISSIPPI RIVER SEDIMENT DIVERSIONS AND DEDICATED DREDGING: ADVANCEMENT IN NUMERICAL MODELING -- Ehab A. Meselhe**; The Water Institute of the Gulf, Baton Rouge, LA, USA

78 **MOLECULAR AND CYTOLOGICAL IDENTIFICATION OF CATTAIL TAXA IN NATIONAL PARKS --** Joy E. Marburger[1], Steven E. Travis[2] and **Beth A. Middleton**[3]; [1]National Park Service, Porter, IN, USA; [2]Unversity of New England, Biddeford, ME, USA; [3]USGS National Wetlands Research Center, Lafayette, LA, USA

21 **CAN THE USE OF SURROGATE WRACK PROMOTE SURVIVAL AND GROWTH OF PLANTED *UNIOLA PANICULATA* AND DUNE BUILDING? -- Debbie L. Miller**[1], Mack Thetford[1], Natalie Hooton[2], Byron S. Claypool[1] and Beth Fugate[3]; [1]University of Florida, Milton, FL, USA; [2]TechLaw, Inc., Alpharetta, GA, USA; [3] Florida Department of Environmental Protection, Pensacola, FL, USA

17 **POST-SANDY BRADLEY BEACH MARITIME FOREST CREATION: A SMALL SCALE RESILIENCY PROJECT WITH LARGE SCALE APPLICATION -- Aleksandr C. Modjeski[1]**, Christopher Benosky[2], and Christopher Syrett[2]; [1]American Littoral Society, Highlands, NJ, USA; [2]AECOM, New York, NY, USA

88 **ECO-GEOMORPHOLOGIC EVOLUTION OF THE BRAZOS RIVER DELTA AND WEST GALVESTON BAY IN THE LAST 10,000 YEARS: A TEXAS CASE STUDY -- Juan Moya, PhD[1*]**, Mike Smith[2], Elizabeth Spalding[1]; [1]Atkins North America, Austin TX, USA; [2]Gulf of Mexico Foundation, Corpus Christi, TX, USA; [*]*Current affiliation: Freese & Nichols, Inc., Austin, TX, USA*

37 **EFFECTS OF STORMWATER MANAGEMENT AND STREAM ENGINEERING ON WATERSHED NITROGEN RETENTION -- Tamara A. Newcomer Johnson**[1], Sujay S. Kaushal[1], Paul M. Mayer[2] and Melissa M. Grese[1, 4]; [1]University of MD, Department of Geology & Earth System Science Interdisciplinary Center, College Park, MD, USA; [2]US Environmental Protection Agency, Office of Research and Development, National Risk Management Research Lab, Ada, Oklahoma, USA; [3]AKRF, Inc., Hanover, MD, USA

74 **GERMINATION OF TROPICAL TREE SPECIES IN HEAVY PETROLEUM CONTAMINATION: A PROMISSORY RESTORATION WAY -- S. Ochoa-Gaona[1]**, I. Pérez-Hernández[2], R.H. Adams Schroeder[3], M.C. Rivera-Cruz[4] and V. Geissen[5]; [1]El Colegio de la Frontera Sur, Campeche, Campeche, México; [2]El Colegio de la Frontera Sur, Villahermosa, Tabasco, México; [3]Universidad Juárez Autónoma de Tabasco, Villahermosa, Tabasco, México; [4]Colegio de Postgraduados, Cárdenas, Tabasco, México; [5]Alterra, Wageningen, The Netherlands

10 **SURVEYING AND UPDATING OUR OTHER COASTAL ENVIRONMENT – THE NORTHERN GULF HYDRO SURVEY PROGRAM OF NOAA AND THE CRITICAL ROLE IN HABITAT STUDIES, COASTAL RESTORATION SUPPORT, COASTAL PROTECTION AND COASTAL INUNDATION MODELS AND THE SUPPORT TO A HUGE NEARSHORE AND OFFSHORE NAVIGATION AND ENERGY BASE -- Timothy Osborn**[1], Jon Dasler[2], Mike Hill[3] and Patrick Fink[4]; [1]NOAA, Lafayette, LA, USA; [2]David Evans and Associates, Inc., Portland, OR, USA; [3]David Evans and Associates, Inc, Portland, OR, USA; [4]NOAA, Mobile, AL, USA

Poster Number

9 **ENHANCEMENTS TO THE NORTHERN GULF COAST FOR COASTAL WATER LEVELS, SURGE MONITORING AND POSITIONING – A GULF WIDE APPROACH TO INCREASING THE NUMBER AND ACCURACY OF GPS BASED REFERENCE STATIONS AND CREATING ENHANCED WATER LEVEL AND WEATHER STATIONS TO SUPPORT COASTAL ECOSYSTEM RESTORATION AND PROTECTION PROGRAMS AND PROJECTS -- Timothy Osborn**[1], David Mooneyhan[2], Randy Osborne[3], James Rizzo[4] and Patrick Fink[5]; [1]NOAA, Lafayette, Louisiana, USA; [2]University of Southern Mississippi, Stennis Space Center; Louisiana State University, Baton Rouge, Louisiana, USA; [4]Texas A&M, Corpus Christi, Texas, USA; [5]NOAA, Mobile, Alabama, USA

27 **JOHNSON'S SEAGRASS – INTRODUCED EXOTIC OR RARE ENDEMIC SPECIES? -- William F. Precht**; Dial Cordy and Associates, Inc., Miami, FL, USA

43 **ISOLATING MECHANISMS OF INVASION: EXPLORING THE LINK BETWEEN *RUELLA SIMPLEX* AND STORMWATER-IMPACTED SOILS -- Candice M. Prince**, Adrienne M. Smith, Carrie Reinhardt Adams, Christine Wiese and Leah Cobb Lee; University of Florida, Gainesville, FL, USA

87 **A PUSH-PULL, INTEGRATED PEST MANAGEMENT SCHEME FOR THE PROTECTION OF BARN OWL NESTS BOXES AND SUGAR CANE WORKERS FROM INVASIVE AFRICANIZED HONEY BEES** -- Caroline A. Efstathion[1], William H. Kern[1], **Richard N. Raid[2]**, and Timothy Lang[3]; [1]Department of Entomology and Nematology ,University of Florida, Fort Lauderdale Research and Education Center, Davie, FL, USA; [2]Department of Plant Pathology, University of Florida, Everglades Research and Education Center, Belle Glade, FL, USA, [3]Dept. of Agronomy, University of Florida, Everglades Research and Education Center, Belle Glade, FL, USA

11 **RESTORATION OF COASTAL HABITATS IN MISSISSIPPI THROUGH THE PROGRAMATTIC BENEFICIAL REUSE OF DREDGED MATERIALS -- George Ramseur**; Mississippi Department of Marine Resources, Biloxi, MS, USA

73 **SUSTAINABLE SOURCE WATER PROTECTION – AN ACTION PLAN FOR BIG CREEK LAKE -- Ann M. Redmond**[1] and Harold E. Clarkson[2]; [1]Brown and Caldwell, Maitland, FL, USA, [2]Brown and Caldwell, Columbia, SC, USA

30 **THE EVOLUTION OF GOVERNANCE: INSTITUTIONAL TRAJECTORIES & LARGE-SCALE ECOSYSTEM RESTORATION -- Estelle S. Robichaux**; Environmental Defense Fund, Washington, D.C., USA

16 **CAPTURING A HOLISTIC UNDERSTANDING OF A LARGE MARINE ECOSYSTEM - NOAA'S GULF OF MEXICO DATA ATLAS -- Kathryn Rose[1]**, Betsy Gardner[2] and Russ Beard[2]; [1]General Dynamics Information Technology, Stennis Space Center, MS, USA, [2]NOAA National Coastal Data Development Center, Stennis Space Center, MS, USA

76 **ASSESSING DYNAMICS OF *RHANTERIUM EPAPPOSUM* PLANT COMMUNITY OVER FOUR DECADES OF PROTECTION BY GIS -- Waleed Y. Roy** and Samira Omar Asem; Kuwait Institute for Scientific Research, Kuwait

84 **ENHANCING POLLINATOR HABITAT AND ECOSYSTEM SERVICES IN RESTORATION -- Matthew J. Sarver**; Sarver Ecological, LLC, Wilmington, DE, USA

79 **GUIDANCE ON QUALITY ASSURANCE FOR ECOSYSTEM RESTORATION** -- Martin A. Stapanian[1], Timothy E. Lewis[2], Craig J. Palmer[3], Molly Middlebrook Amos[3], **Judith Schofield[3]** and Louis J. Blume[4]; [1]U.S. Geological Survey, Sandusky, OH, USA; [2]U.S. Army Corps of Engineers, Engineer Research and Development Center, Vicksburg, MS, USA; [3]CSC, Alexandria, VA, USA; [4]U.S. Environmental Protection Agency Great Lakes National Program Office, Chicago, IL, USA

41 **SEED BANK – VEGETATION DYNAMICS ALONG A RESTORATION GRADIENT: IMPLICATIONS FOR RESTORATION OF GROUNDCOVER IN PINE FLATWOODS ECOSYSTEMS OF THE GULF COASTAL PLAIN OF FLORIDA -- Ajay Sharma[1],** Kimberly K. Bohn[1], Shibu Jose[2] and Deborah L. Miller[1]; [1]University of Florida, Milton, FL, USA, [2]University of Missouri, Columbia, MO, USA

80 **DATA AVAILABLE FROM LOUISIANA'S COASTWIDE REFERENCE MONITORING SYSTEM-*WETLANDS* -- Leigh Anne Sharp**, Dona Weifenbach, Tommy McGinnis; Coastal Protection and Restoration Authority, Lafayette, LA, USA

Poster Number

70 **INSTREAM STRUCTURE DURABILITY AND STREAM BANK EROSION IN RESTORED STREAMS ON THE NORTH CAROLINA (U.S.A.) PIEDMONT --** Kimberly Hamlin and **Theodore Shear**; Restoration Ecology Program, Department of Forestry and Environmental Resources, North Carolina State University, Raleigh, North Carolina, USA

56 **VEGETATION RESTORATION IN THE EAGLE FORD SHALE OIL & GAS PLAY -- Forrest S. Smith**, Keith A. Pawelek, and Anthony D. Falk; South *Texas Natives* Project*,* Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, TX, USA

23 **THE BILLION BOTTLE BARRIER: A WORLD CITIZEN-SCIENCE PROJECT FOR MITIGATING COASTAL EROSION -- Wm. Hovey Smith**; Whitehall Press – Budget Publications, Sandersville GA, USA

83 **EFFECTS OF THE RECORD-BREAKING CALIFORNIA DROUGHT ON THE DENNERY CANYON WEST VERNAL POOL RESTORATION SITE -- Linnea Spears-Lebrun**; AECOM, San Diego, CA, USA

77 **ASSESSING FUNCTIONAL EQUIVALENCY AT MULTIPLE SCALES USING THE COASTWIDE REFERENCE MONITORING SYSTEM -- Camille L. Stagg**[1], Leigh Anne Sharp[2], Thomas McGinnis[2], Brady Couvillion[1] and Gregg Snedden[1]; [1]U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA; [2]Coastal Protection and Restoration Authority of Louisiana, Lafayette, LA, USA

36 **URBAN ECOSYSTEM RESTORATION: UPPER NINTH WARD --** Aaron C. Elswick[1]**, Manuel Steinhagen[2]** and LaRaine. P. Montgomery[1]; [1]Savannah College of Art and Design, Savannah, GA, USA; [2]University of Applied Sciences Ostwestfalen-Lippe, Höxter, Germany

3 **APPLICATIONS OF THE EVERGLADES DEPTH ESTIMATION NETWORK (EDEN) DATA AND TOOLS FOR ECOLOGICAL ASSESSMENTS IN THE EVERGLADES -- Pamela Telis**[1] and Paul Conrads[2]; [1]U.S. Geological Survey, Florida Water Science Center, Jacksonville, FL, USA; [2]U.S. Geological Survey, South Carolina Water Science Center, Columbia, SC, USA

42 **LIFE TO AD(D)MIRE; MIRERESTORATIONS IN SWEDEN -- L. Tenning**, A. Lundgren, F. Lundin, J. Rova, S. Lamme, K. Lindström and T. Hansson; Länsstyrelsen Jämtlands län, Östersund, Sweden

20 **RESTORATION PLANNING FOR THE BRADDOCK BAY COASTAL WETLAND OF LAKE ONTARIO -- Joshua M. Unghire[1]**, Chris Akios[1], Colleen O' Connell[1], Craig M. Forgette[1] and Douglas A. Wilcox[2]; [1]U.S. Army Corps of Engineers, Buffalo District, NY, USA; [2]State University of New York, College at Brockport, NY, USA

31 **WETLAND BIODIVERSITY RESTORATION IN AN ABANDONED SUGARCANE CULTIVATION SITE IN PUERTO RICO --** José A. Cruz-Burgos[1], **Francisco J. Vilella[2]**, Richard M. Kaminski[3], and Marisel López-Flores[1]; [1]U.S. Fish and Wildlife Service, Caribbean Field Office, Boquerón, Puerto Rico, [2]U.S. Geological Survey, Mississippi Cooperative Fish and Wildlife Research Unit, MS, USA, [3]Department of Wildlife, Fisheries and Aquaculture, Mississippi State, USA

15 **MIGRATING BIRD USE OF BRACKISH MARSHES: DOES RESTORATION TECHNIQUE MATTER? --** Anna R. Armitage, **Ashley A. Whitt**, Rebekkah Morrison; Texas A&M University at Galveston, Galveston, TX, USA

4 **ESTIMATING NATURAL HYDROLOGY AND SALINITY IN AN ALTERED ESTUARINE ECOSYSTEM: AN EXAMPLE FROM THE GREATER EVERGLADES, FLORIDA -- G.L. Wingard[1]**, F.E. Marshall[2], P.A. Pitts[3]; [1] U.S. Geological Survey, Reston, VA, USA, [2]Cetacean Logic Foundation, New Smyrna Beach, FL, USA, [3] U.S. Fish & Wildlife Service, Vero Beach, FL, USA

90 **EVALUATING THE EFFECTS OF VEGETATION RESTORATION IN DALING RIVER RIPARIAN ZONE -- WU Wenqiang**[1], PENG Wenqi[1], LIU Xiaobo[1], LI Wenwen[2]; [1]China Institute of Water Resources and Hydropower Research, Beijing, China; [2]China Water international Engineering Consulting Co., Ltd, Beijing, China

38 **A CASE STUDY OF LANDSCAPE RECONSTRUCTION AND RESEARCH IN THE OIL SANDS: SYNCRUDE CANADA LTD.'S SANDHILL FEN WATERSHED PROGRAM -- Carla Wytrykush**, Jessica Clark, Marty Yarmuch and Audrey Lanoue; Syncrude Canada Ltd. Research and Development, Edmonton, Alberta, Canada

Full Author Recognition – Oral Presentations

Listed by Session

Presenting author names are in **bold**.

Tuesday, July 29, 2014 | 10:30am – 12:00pm			
1	**2**	**3**	**4**
Session #1: Deepwater Horizon Oil Spill NRDA Trustee Early Restoration in the Gulf of Mexico (Part 1 of 2) **[Salon B]** **Moderator: John Isanhart**, Department of the Interior, Denver, CO 10:30 **Session Overview** 10:40 ***DEEPWATER HORIZON* OIL SPILL NATURAL RESOURCE DAMAGE ASSESSMENT EARLY RESTORATION OVERVIEW -- Colette S. Charbonneau**; USFWS, DOI DWH Case Management Office, Denver, CO 11:00 **RESTORING LOST RECREATIONAL USE OF NATURAL RESOURCES AFTER THE *DEEPWATER HORIZON* OIL SPILL** -- **Lee Edmiston[1]**, Gil McRae [2], Kelly Samek[3]; [1]Florida Department of Environmental Protection, Eastpoint, FL, USA; [2]Florida Fish and Wildlife Conservation Commission, St. Petersburg, FL, USA; [3]Florida Fish and Wildlife Conservation Commission, Tallahassee, FL, USA 11:20 **AN OVERVIEW OF THE DEEPWATER HORIZON INCIDENT NATURAL RESOURCE DAMAGE ASSESSMENT EARLY RESTORATION PROGRAM IN ALABAMA -- William H. Brantley, Jr.**; Alabama Department of Conservation and Natural Resources, State Lands Division, Montgomery, Alabama, USA 11:40 **TECHNOLOGICAL ADVANCES IN SEA TURTLE RESTORATION: THE DWH NRDA PROGRAM AND COASTAL LIGHTING** -- **Benjamin J. Frater**; USFWS, DWH NRDAR Field Office, Fairhope, AL, USA	**Session #2: Emerging Water Resources Policy** **[Salon C]** **Moderator: Karen Gautreaux**, The Nature Conservancy, LA, Baton Rouge, LA 10:30 **Session Overview** 10:40 **THE KEY INGREDIENT: MANAGING WATER FOR A SUSTAINABLE COAST – Christopher Dalbom** and Mark S. Davis; Tulane Institute on Water Resources Law and Policy, Tulane Law School, New Orleans, LA, USA 11:00 **REPORT CARD SUPPORTS INTEGRATED MANAGEMENT IN THE MISSISSIPPI RIVER BASIN** -- **Heath Kelsey**, William Dennison and William Nuttle; University of Maryland Center for Environmental Science 11:20 **THE LOUISIANA FRESHWATER ASSESSMENT: SCIENTIFIC DECISION SUPPORT FOR FRESHWATER CONSERVATION AND POLICY DEVELOPMENT -- Bryan P. Piazza**, David P. Harlan, Jill Andrew, and James F. Bergan; The Nature Conservancy, Baton Rouge, LA, USA 11:40 **EMERGING POLICY – POST MARKS FROM THE BLEEDING EDGE -- Dennis R Duke**; U.S. Department of the Interior, Davie, FL USA	**Session #3: Regime Changes, Resilience & Restoration - The Evolving Dialogue** **[Salon D]** **Moderator: Stephen Murphy**, University of Waterloo, Waterloo, ON 10:30 **Session Overview** 10:40 **FROM SLIPPERY CONCEPT TO EFFECTIVE TOOLS: DEVELOPING AN OPERATIONAL APPROACH TO RESILIENCE IN ECOSYSTEM MANAGEMENT AND RESTORATION -- Richard J. Hobbs** and Rachel J. Standish; School of Plant Biology, University of Western Australia, Crawley, Western Australia 11:00 **HOW DO ECOLOGISTS MEASURE RESILIENCE? -- Rachel J. Standish[1]**, Nancy A. Shackelford [2] and Richard J. Hobbs[1]; [1]School of Plant Biology, The University of Western Australia, Australia; [2]School of Environmental Studies, University of Victoria, Canada 11:20 **INCORPORATION OF RESILIENCE AS A GOAL IN ECOSYSTEM RESTORATION: A PACIFIC NORTHWEST (USA) PERSPECTIVE** -- **James G. Hallett;** Eastern Washington University, Cheney, WA, USA 11:40 **OPERATIONALIZING RESILIENCE FOR ECOLOGICAL RESTORATION -- Cara R. Nelson**; Department of Ecosystem and Conservation Sciences, University of Montana, Missoula, MT, USA	**Session #4: Ecosystem Restoration - Climate Change and Sea Level Rise** **[Salon E]** **Moderator: Jennifer Mouton**, CPRA of Louisiana, Baton Rouge, LA 10:30 **Session Overview** 10:40 **FOREST HEALTH BASED SCENARIO BUILDING AS AN ACCESSIBLE TOOL FOR CLIMATE CANGE MANAEMENT IN BRUCE PENINSULA NATIONAL PARK – Kelly Moores** and Stephen Murphy, PhD; University of Waterloo, Waterloo, Ontario, Canada 11:00 **CHESAPEAKE BAY WATERSHED MODEL ANAYSIS OF CLIMATE CHANGE MODEL PREDICTED PRECIPITATION, TEMPERATURE, AND POTENTIAL EVAPOTRANSPIRATION EFFECT ON STATE-BASIN NUTRIENT AND SEDIMENT LOADINGS -- Amanda Pruzinsky[1]**, Gopal Bhatt[2]; Chesapeake Research Consortium, CBPO, Annapolis, MD, USA; [2]Pennsylvania State University, CBPO, Annapolis, MD, USA 11:20 **INCORPORATING SEA-LEVEL RISE IN LOUISIANA'S COASTAL MASTER PLAN -- James W. Pahl**; State of Louisiana, Coastal Protection and Restoration Authority, Baton Rouge, LA, USA 11:40 **NOAA - SEA LEVEL TRENDS-PUTTING SEA LEVEL RISE CURVES INTO OPERATIONAL PRACTICE** -- **Timothy Osborn** and Michael Michalski; NOAA, Regional Office, Lafayette, LA, USA

Tuesday, July 29, 2014 | 10:30am – 12:00pm

5

Session #5: National Parks and the Gulf Coast: Protecting, Restoring, and Growing for the Second Century

[Salon F]

Moderator: Sarah Barmeyer, National Parks Conservation Association, Washington, DC

10:30 **Session Overview**

10:40 **RESTORING GREAT WATERS AND NATIONAL PARKS FOR THE 2nd CENTURY OF THE NATIONAL PARK SYSTEM – A NATIONAL OVERVIEW -- John Adornato**[1] and Sarah Barmeyer[2]; [1]National Parks Conservation Association, Hollywood, FL, USA; [2]National Parks Conservation Association, Washington, DC, USA

11:00 **NATIONAL PARK SERVICE RESTORATION IN GULF OF MEXICO COASTAL PARKS** -- **Ford, Mark**, National Park Service, New Orleans, LA, USA

11:20 **THE MOBILE-TENSAW DELTA: A NEW CONSERVATION MATRIX FOR ONE NORTH AMERICA'S MOST DIVERSE LANDSCAPES -- William A. Finch**; The Ocean Foundation's Senior Fellow for the Gulf of Mexico, Chief Science Advisor, The Mobile Botanical Gardens, Mobile, AL, USA

11:40 **POTENTIAL ECONOMIC IMPACTS OF NATIONAL PARK UNITS AT GALVESTON BAY AND MOBILE-TENSAW DELTA -- Michele Archie**; The Harbinger Consulting Group, San Francisco, CA, USA

6

Session #6: Coastal Ecosystem Services

[Salon G]

Moderator: Ann Redmond, Brown and Caldwell, Maitland, FL

10:30 **Session Overview**

10:40 **THE CHANGE IN ECOSYSTEM SERVICES VALUES AND LONG TERM ECONOMIC IMPACT RESULTING FROM COASTAL RESTORATION INVESTMENTS** -- **Ann Speers**[1], David F. Mitchell[1], Elena Besedin[1], Shiva Polefka[2], and Jeffrey Buchanan[3]; [1]Abt Associates, Cambridge, MA, USA; [2]Center for American Progress, Washington, D.C., USA; [3]Oxfam America, Boston, MA, USA

11:00 **ECOSYSTEM SERVICES VALUE AT RISK: TOWARDS MARINE ECOSYSTEM RESTORATION -- Maria Cristina Infante**[1], Peter N. Nemetz[2], U. Rashid Sumaila[3], and Adlai Fisher[2]; [1]PhD Candidate, Resources, Environment and Sustainability, University of British Columbia, Vancouver, BC, Canada; [2]The Sauder School of Business, University of British Columbia, Vancouver, BC, Canada; [3]Fisheries Centre, University of British Columbia, Vancouver, BC, Canada

11:20 **CUTTING-EDGE TOOLS FOR ASSESSING ECOSYSTEM SERVICES AND MANAGING RESTORATION PROJECTS** -- **Michael Leff**[1], Al Zelaya[2], and Jason Henning[3]; [1]The Davey Institute, USDA Forest Service, Philadelphia Field Station, PA, USA; [2]The Davey Institute, USDA Forest Service, Philadelphia Field Station, PA, USA; [3]The Davey Institute, Chicago, IL, USA

11:40 **ECOSYSTEM SERVICE VALUATION FOR WETLAND RESTORATION -- Marla J. Stelk**; Association of State Wetland Managers, Windham, ME, USA

7

Session #7: Using the Target Plant Concept to Improve Restoration Planting Success

[Salon H]

Moderator: Anthony Davis, University of Idaho, Moscow, ID

10:30 **Session Overview**

10:40 **HOW PLANTS ESTABLISH, OR FAIL TO, IN RESTORATION PROJECTS** -- **Jeremiah R. Pinto**[1] and Anthony S. Davis[2]; [1]USDA Forest Service, Rocky Mountain Research Station, Moscow, ID, USA; [2]University of Idaho, Moscow, ID, USA

11:00 **STOCKTYPE DEVELOPMENT AND SELECTION FOR IMPROVED RESTORATION SUCCESS IN LEBANON -- Karma M. Bouazza**[1], Olga A. Kildisheva[2], Matthew M. Aghai[2], and Anthony S. Davis[2]; [1]Lebanon Reforestation Initiative, Beirut, Lebanon; [2]University of Idaho, Moscow, ID, USA

11:20 **BIOTIC FACTORS LIMITING OUTPLANTING SUCCESS OF THE TARGET PLANT -- Owen T. Burney;** New Mexico State University, Las Cruces, NM, USA

11:40 **FITNESS FOR PURPOSE: TREE SEEDLING QUALITY IN FOREST RESTORATION -- Simon M. Landhäusser**; University of Alberta, Edmonton, Alberta, Canada

8

Session #8: Collaborative Adaptive Management

[Salon I]

Moderator: Chadwin Smith, Headwaters Corporation/Platte River Recovery Implementation Program, Kearney, NE

10:30 **Session Overview**

10:40 **CONTRASTING ROLES IN COLLABORATIVE ADAPTIVE MANAGEMENT: A POTENTIAL KEY TO PROGRESS** -- **Jim Berkley**; U.S. Environmental Protection Agency, Denver, CO, USA

11:00 **INTEGRATING ADAPTIVE MANAGEMENT INTO PROJECT LIFECYCLE PROCESSES -- M. Kent Loftin**; SynInt, Inc., Hobe Sound, FL, USA

11:20 **DEVELOPING AN ADAPTIVE MANAGEMENT FRAMEWORK FOR THE NEBRASKA STATE WILDLIFE ACTION PLAN** -- **Craig Allen**; Nebraska Cooperative Fish & Wildlife Research Unit Lincoln, NE, USA

11:40 **GREEN URBAN STORMWATER MANAGEMENT: A FERTILE GROUND FOR COLLABORATIVE ADAPTIVE MANAGEMENT -- Ahjond Garmestani** and Olivia Odom Green; U.S. Environmental Protection Agency, Cincinnati OH USA

Tuesday, July 29, 2014 | 10:30am – 12:00pm			
9	**10**		
Session #9: Nutrients - Effects and Management (Part 1 of 2) **[Salon J]** **Moderator: Richard Pfingsten**, Parsons Brinckerhoff, Baltimore, MD 10:30 **Session Overview** 10:40 **EVALUATING BEST MANAGEMENT PRACTICE EFFECTIVENESS TO INFORM DECISION MAKING IN THE CHESAPEAKE BAY** -- **Emma Giese**; Chesapeake Research Consortium, Annapolis, MD, USA 11:00 **ENGINEERED ECOSYSTEMS, A CYBORG APPROACH TO ECOSYSTEM RESTORATION - GRAND LAKE ST. MARYS LITTORAL WETLAND RESTORATION -- Joseph Pfeiffer, Jr.**; Vice-President, KCI Technologies Inc., Raleigh, NC, USA 11:20 **THE INFLUENCE OF NUTRIENTS ON THE SUSTAINABILITY OF COASTAL WETLANDS** -- **Gary P. Shaffer**[1], James T. Morris[2], Eva Hillmann[3], and J. Andrew Nyman[3]; [1]Biological Sciences, Southeastern Louisiana University, Hammond, LA, USA; [2]Belle Baruch Institute for Marine & Coastal Sciences, University of South Carolina, Columbia, SC, USA; [3]School of Renewable Natural Resources, Louisiana State University, Baton Rouge, LA, USA 11:40 **WATER QUALITY PERFORMANCE OF WETLANDS RECEIVING NONPOINT SOURCE NITROGEN LOADS: BENEFITS OF TARGETED WETLAND RESTORATIONS -- William G. Crumpton**, Greg A. Stenback and David Green; Department of Ecology, Evolution and Organismal Biology, Iowa State University, Ames, IA	**Session #10: Restoration to Support Fisheries Habitat** **[Salon K]** **Moderator: Jerry Kenny**, Platte River Recovery Implementation Program, Kearney, NE 10:30 **Session Overview** 10:40 **LINKING EVERGLADES RESTORATION EFFECTS TO FISHERIES HABITAT: INFLUENCE OF SAV SEASCAPE STRUCTURE AND FISH PREDATION RISK IN BISCAYNE BAY -- Rolando O. Santos**[1], Diego Lirman[1] and James McCullars[2]; [1]University of Miami/RSMAS, Miami, FL, USA; [2]Savannah State University, Savannah, GA, USA 11:00 **A FIRST IN THE CAPE FEAR RIVER - ENHANCING ANADROMOUS FISH SPAWNING HABITAT -- Dawn York**[1], Kemp Burdette[2], Lindsay Gardner[3]; [1]Dial Cordy and Associates Inc., Wilmington, NC, USA; [2]Cape Fear River Watch, Wilmington, NC, USA; [3]Southeast Aquatic Resources Partnership, Nashville, TN, USA 11:20 **PHYSICAL HYDRAULIC MODELING TOOLS FOR RESTORATION OF ENDANGERED SOUTHERN STEELHEAD HABITAT -- Wendy Katagi**[1], Ted Johnson[2]; [1]CDM Smith, Los Angeles, CA, USA; [2]CDM Smith, Helena, MT, USA 11:40 **WETLAND RECOVERY AND SALMON POPULATION RESILIENCE: A CASE STUDY IN ESTUARY ECOSYSTEM RESTORATION -- Daniel L. Bottom**[1], Kim K. Jones[2], Trevan J. Cornwell,[2] Staci Stein,[2] and L. A. Campbell[3]; [1]Northwest Fisheries Science Center, Newport, OR, USA; [2]Oregon Department of Fish and Wildlife, Corvallis, OR, USA; [3]Washington Department of Fish and Wildlife, Olympia, WA, USA		

Tuesday, July 29, 2014 | 1:30pm – 3:00pm

11

Session #11: Deepwater Horizon Oil Spill NRDA Trustee Early Restoration in the Gulf of Mexico (Part 2 of 2)

[Salon B]

Moderator: John Isanhart, Department of the Interior, Denver, CO

1:30 **Session Overview**

1:40 **ENHANCED MANAGEMENT OF AVIAN BREEDING HABITAT INJURED BY RESPONSE IN THE FLORIDA PANHANDLE, ALABAMA, AND MISSISSIPPI** -- **Amy L. Mathis**[1]; [1] National Park Service, Fairhope, AL, USA

2:00 **REBUILDING AN ISLAND TO RESTORE BIRD NESTING HABITAT FOR SPECIES INJURED BY THE DWH SPILL -- Brian L. Spears**[1] and James G. Flocks[2]; [1]USFWS, DWH NRDAR Field Office, Fairhope, AL, USA; [2]USGS, St. Petersburg Coastal and Marine Science Center, St. Petersburg, FL, USA

2:20 **RESTORING ECOSYSTEM SERVICES IN MISSISSIPPI COASTAL WATERS BY ENHANCING SECONDARY PRODUCTIVITY USING OYSTER CULTCH AND ARTIFICIAL REEFS -- Eldon C. "Don" Blancher II**; Sustainable Ecosystem Restoration, LLC, Mobile, AL, USA

2:40 **SCIENCE AND MONITORING TO ASSESS THE SUCCESS OF RESTORATION PROJECTS RELATED TO THE DWH OIL SPILL AND NATURAL RESOURCE DAMAGE ASSESSMENT AND RESTORATION (NRDAR)** -- **Alyssa Dausman**[1] and Jo Ellen Hinck[2]; [1]USGS, Gulf Coast Office, Stennis Space Center, MS, USA; [2]USGS, Columbia Environmental Research Center, Columbia, MO, USA

12

Session #12: Integrating Adaptive Management into NEPA Planning to Expedite Large-Scale Ecosystem Restoration / Recovery Implementation

[Salon C]

Moderator: Tom St Clair, Louis Berger, Jacksonville, FL

1:30 **Session Overview**

1:40 – 3:00 **Panelists**: **Steve Bartell**[1], **Kate Engel**[2], **April Fitzner**[3]; [1]Cardno ENTRIX, Maryville, TN, USA; [2]Confluence Environmental Company, Seattle, WA, USA; [3]USACE, Kansas City, MO, USA

This panel will examine a growing trend within large-scale ecosystem restoration/recovery programs involving the integration of adaptive management principles into NEPA planning and documentation. The session will involve a combination of brief presentations from four large-scale restoration/recovery programs (i.e., Everglades, Louisiana Coastal Area, Missouri River, and Upper Mississippi River) followed by discussion to address issues common to each program. The intended audience is managers, restoration/recovery practitioners, planners, and others who prepare NEPA documentation for large-scale restoration programs.

13

Session #13: Community Engagement for Ecosystem Restoration and Resiliency

[Salon D]

Moderator: Bryon Griffith, Dewberry, Baton Rouge , LA

1:30 **Session Overview**

1:40 **AN INTERFACE OF COMMUNITY WELLBEING AND WATERSHED RESTORATION IN SOUTHERN BRUCE COUNTY -- Adrienne A. Mason**[1&2]; [1] Pine River Watershed Initiative Network, Ripley, ON, CA; [2] University of Waterloo, Masters of Environmental Resource Studies, Waterloo, ON, Canada

2:00 **POST SANDY BRADLEY BEACH MARITIME FOREST CREATION: A SMALL SCALE RESILIENCY PROJECT WITH LARGE SCALE APPLICATION -- Aleksandr C. Modjeski**[1], Christopher Benosky[2] and Christopher Syrett[2]; [1]American Littoral Society, Highlands, NJ, USA; [2]AECOM, New York, NY, USA

2:20 **FUSING EASTERN AND WESTERN OUTPLANTING PRACTICES FOR SUCCESS: THE LEBANON REFORESTATION INITIATIVE -- Darin Stringer**[1], Maya Nehme[2] and Majd Khashan[3]; [1]Pacific Stewardship LLC., Bend, OR, USA; [2]Lebanon Reforestation Initiative, Beirut, Lebanon; [3]Lebanon Reforestation Initiative, Beirut, Lebanon

2:40 **REGIME CHANGES, RESILIENCE, AND RESTORATION: NO REVERSE GEAR -- Stephen Murphy**[1,2], Heather Sloan[1,2], Scott Parker[1,2], Jennifer Balsdon[1,2], Darby McGrath[1,2], Donald Rayome[1,2], Michael McTavish[1,2], Kelly Moores[1,2], Kylie McLeod[1,2], Gwyn Govers[1,2], Jonquil Crosby[1,2], Natasha Lukey[1,2], Colin Yates[2], Jonaki Bhattacharyya[2,3], and Sara Ashpole[2,4]; [1]Department of Environment & Resource Studies, University of Waterloo, Waterloo, ON, Canada; [2]Centre for Ecosystem Resilience & Adaptation, University of Waterloo, Waterloo, ON, Canada; [3]Department of Geography, University of Victoria, Victoria, BC, Canada; [4]Environmental Studies, St. Lawrence University, Canton, NY, USA

14

Session #14: Global Perspectives on Restoring Waterways Affected by Industrial Contamination (Part 1 of 2)

[Salon E]

Moderator: Richard Wenning, ENVIRON , Portland , ME

1:30 **Session Overview**

1:40 **ENVIRONMENTAL REMEDIATION & RESTORATION OF THE KISHON RIVER ISRAEL -- Danny Sherban**, Itamar Sarue and Jeffrey Gabster; Yodfat Engineers Ltd., Yodfat, Israel

2:00 **CONSIDERATIONS FOR RESTORATION OF HEAVILY INDUSTRIALIZED RIVERS IN THE UNITED STATES: A CASE STUDY OF THE LOWER PASSAIC RIVER IN THE NEW YORK/NEWJERSEY (NY/NJ) HARBOR ESTUARY -- Timothy J. Iannuzzi** and David F. Ludwig; ARCADIS, Annapolis, MD USA

2:20 **INTEGRATED APPROACHES TO ACHIEVING ENVIRONMENTAL GOALS IN NORWAY'S FJORDS -- Rebecca Gardner**[1] and Kristoffer Næs[2]; [1]Anchor QEA AS, Oslo, Norway; [2]Norwegian Institute for Water Research, Oslo, Norway

2:40 **ENVIRONMENTAL RESTORATION OF THE LOWER EBRO RIVER AND ITS DELTA (CATALONIA, SPAIN) -- Carles Ibáñez**[1] & Nuno Caiola; IRTA Aquatic Ecosystems, Sant Carles de la Ràpita, Catalonia, Spain

Tuesday, July 29, 2014 | 1:30pm – 3:00pm

15

Session #15: Restoring Water Quality along with Restoring the Gulf of Mexico (Part 1 of 2)

[Salon F]

Moderators: Troy Pierce[1] **and Matthew Harwell**[2]; [1] USEPA Gulf of Mexico Program, MS; [2]USEPA - Gulf Ecology Division, Gulf Breeze, FL

1:30 **Session Overview**

1:40 **INNOVATIVE APPROACHES, METHODS AND TECHNIQUES FOR IMPROVING WATER QUALITY -- Jane V. Morse**; UF/IFAS Extension Pinellas County

2:00 **BARATARIA-TERREBONNE NATIONAL ESTUARY PROGRAM—CLEANING UP OUR WATERWAYS -- Alma Robichaux** and Kerry M. St Pé; Barataria-Terrebonne National Estuary Program, Thibodaux, LA, USA

2:20 **DAVIS POND RIVER DIVERSION PROJECT: PRE-AND POST-DIVERSION TRENDS FOR SALINITY INTRUSION AND NUTRIENT REMOVAL -- Andrew Stoddard**[1], Silong Lu[1], Christopher Wallen[1], Zhijun Liu[1], Erol Karadogan[1] and Chuck Villarubia[2]; [1]Dynamic Solutions, LLC, Knoxville, TN, USA; [2]Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA

2:40 **COMMUNITY DRIVEN WATER QUALITY IMPROVEMENT TO BENEFIT GULF ECOSYSTEMS: EPA FUNDED PROJECTS 1987-2013 -- Troy A. Pierce**[1], William G. Deutsch[2], Robert Kröger[3], Andrea Burgeois-Calvin[4], and Kerry St. Pe[5]; [1]USEPA Gulf of Mexico Program, Stennis Space Center, MS, USA; [2]Global Water Watch Program, Auburn, AL, USA; [3]Mississippi State University, Starkville, MS, USA; [4]Lake Pontchartrain Basin Foundation, New Orleans, LA, USA; [5]Barataria-Terrebonne National Estuary Program, Thibodaux LA, USA

16

Session #16: Principles to Practice: Implementing Regional Sediment Management on the Gulf of Mexico Coast

[Salon G]

Moderator: Mikell Smith, Gulf of Mexico Foundation, Corpus Christi, TX

1:30 **Session Overview**

1:40 **GULF REGIONAL SEDIMENT MANAGEMENT MASTER PLAN (GRSMMP) - AN OVERVIEW OF THE SEDIMENT RESOURCES OF NORTHERN GULF OF MEXICO -- Syed M. Khalil**; Coastal Protection and Restoration Authority of Louisiana, LA, USA

2:00 **POLICY ISSUES AND RECOMMENDATIONS FOR THE IMPLEMENTATION OF BENEFICIAL USE OF MANAGED SEDIMENTS -- Larry E. Parson**; U.S. Army Corps of Engineers, Mobile, Alabama

2:20 **STATE IMPLEMENTATION OF REGIONAL SEDIMENT MANAGEMENT – ECONOMIC, ENVIRONMENTAL AND COLLABORATIVE SUCCESS STORIES FROM TEXAS AND MISSISSIPPI -- Ray Newby**[1] and George Ramseur[2]; [1]Texas General Land Office, Austin, Texas, USA; [2]Dept. of Marine Resources, Biloxi, MS, USA

2:40 **STRATEGIES FOR IMPLEMENTING REGIONAL SEDIMENT MANAGEMENT: USING A COLLABORATIVE APPROACH TO IMPLEMENTING RSM PRINCIPLES IN ALABAMA -- Carl Ferraro**; Alabama Department of Conservation and Natural Resources, State Lands Division-Coastal Section, Spanish Fort, Alabama, USA

17

Session #17: Think Like a Watershed: Urban Restoration in the Nation's Capital

[Salon H]

Moderator: Peter J. Hill; District Department of the Environment, Washington, DC, USA

1:30 **Session Overview**

1:40 **RESTORING ECOLOGICAL FUNCTION TO ZERO-ORDER URBAN STREAMS USING REGENERATIVE STREAM CHANNEL DESIGNS -- Josh Burch**, Stephen Reiling, Peter Hill, Steve Saari; District of Columbia (District) Department of the Environment (DDOE), Washington, DC, USA

2:00 **LID REVEALED IN WASHINGTON, D.C.: TRUE DATA FROM THE TRENCHES** -- **Andrew Oetman**; District Department of the Environment, Washington, DC, USA

2:20 **CAN URBAN DEVELOPMENT RESTORE AQUATIC RESOURCES WITH STANDARDS FOR STORMWATER RETENTION AND LANDSCAPE PERFORMANCE? -- Rebecca C. Stack**[1] and Laine Cidlowski[2]; [1]District Department of Environment, Washington DC, USA; [2]Office of Planning, Washington DC, USA

2:40 **ADDING UP THE BENEFITS OF THREE INTEGRATIVE PROGRAMS FOR WATER QUALITY AND HABITAT RESTORATION -- Peter J. Hill**; District Department of the Environment, Washington, DC, USA

18

Session #18: Sustaining Coastal Landscapes and Community Benefits: Ecosystem Service Valuation to Improve the Use of Science in Policy

[Salon I]

Moderator: Christine Feurt, Wells National Estuarine Research Reserve, Wells, ME

1:30 **Session Overview**

1:40 **ECOLOGICAL ASSESSMENT OF RIPARIAN BUFFER STRUCTURE AND FUNCTION TO ASSESS ECOSYSTEM SERVICES --** Michele Dionne[1], **Kristin R. Wilson**[1], Chris R. Peter[2], Christine Feurt[1,3], Jacob Aman[1], Tin Smith[1]; [1]Wells National Estuarine Research Reserve, Wells, ME, USA; [2]University of New Hampshire, Jackson Estuarine Laboratory, Durham, NH, USA; [3]University of New England, Center for Sustainable Communities and Department of Environmental Studies, Biddeford, ME, USA

2:00 **USING MENTAL MODELING AND COMMUNICATION AUDITS TO LINK ECOSYSTEM SERVICE VALUATION TO RESTORATION GOALS --** Christine Feurt[1], Kristin Wilson[1], Tin Smith[1] Suzanne Kahn Eder[1,] Jeremy Miller[1], Sue Bickford[1], Rob Johnston[2], **Verna DeLauer**[2] and Peter Wiley[3]; [1]Wells National Estuarine Research Reserve, Wells, ME, USA; [7-8]Clark University, Worcester, MA, USA; [9]NOAA, Coastal Services Center, MD, USA

2:20 **CHALLENGES AND REWARDS OF TRANSDISCIPLINARY COLLABORATION TO SUSTAIN ECOSYSTEM SERVICES -- Christine Feurt**[1], Robert Johnston[2], Verna DeLauer[3] and Kristin Wilson[4]; [1]Wells National Estuarine Research Reserve, Wells, ME, USA ; [2]Clark University, Worcester, MA, USA; [3]Clark University, Worcester, MA, USA; [4]Wells National Estuarine Research Reserve, Wells, ME, USA

2:40 **PANEL DISCUSSION** Interdisciplinary Panel & Audience Engagement to Discuss Benefits and Barriers of Ecosystem Service Valuation for Ecosystem Restoration Practice and Policy

Tuesday, July 29, 2014 | 1:30pm – 3:00pm

19

Session #19: Integrating Ecological Restoration Projects into a Regional Framework

[Salon J]

Moderator: Paul Bovitz, Worley Parsons Group, Hillsborough, NJ

1:30 Session Overview

1:40 **ECOLOGICAL AND ADMINISTRATIVE CONSTRAINTS TO RESTORING COASTAL HABITATS ALONG JAMAICA BAY, NYC -- Christina M. K. Kaunzinger**[1] and Steven N. Handel[1]; [1] Rutgers University, New Brunswick, NJ, USA

2:00 **URBAN RIVER RESTORATION SUCCESS: COLLABORATING WITH LOCAL COMMUNITIES -- Gwen Macdonald and John Champion**; Save the Sound, New Haven, CT, USA

2:20 **ADAPTIVELY RESTORING AND MANAGING URBAN RIPARIAN AREAS FOR ECOLOGICAL IMPROVEMENT, RESILIENCY AND INTEGRATION WITH LONG-TERM PLANNING INITIATIVES -- Ed Morgereth**; Biohabitats, Inc., Baltimore, Maryland, USA

2:40 **INCENTIVIZING LOW IMPACT DEVELOPMENT: DEVELOPING AND PILOTING GREEN SHORES FOR HOMES -- Margaret Glowacki**[1], Nicole Faghihn[2], Susan Keys[3], Brian Emmett[4], and DG Blair[5]; [1]City of Seattle Department of Planning and Development, Seattle, WA, USA; [2] Washington Sea Grant, Seattle, WA, USA; [3]San Juan County, Friday Harbor, WA, USA; [4]Archipelago Marine Research Ltd, Victoria, B.C. Canada; [5]Stewardship Centre of B.C. Canada

20

Session #20: Application of Evidence-Based Evaluations (EBE) for Large-Scale Ecosystem Restoration Programs (Part 1 of 2)

[Salon K]

Moderator: Heida Diefenderfer, Pacific Northwest National Laboratory, Sequim, WA

1:30 Session Overview

1:40 **ROLE OF SYSTEM-WIDE ECOSYSTEM RESTORATION ASSESSMENTS IN THE EVERGLADES ADAPTIVE MANAGEMENT PROGRAM -- A. LoSchiavo**[1], Tom Dreschel[2], G. Ehlinger[1], P. Gorman[2], S. Gray[2], S. Kemp[3], A. McLean[4], M. Meyer[5], A. Patterson[1], P. Pitts[5], A. Rodusky[2], D. Rudnick[4], S. Schubert[5], F. Sklar[2], S. Traxler[5]; [1]U.S. Army Corps of Engineers, Jacksonville, FL, USA; [2]South Florida Water Management District, West Palm Beach, FL, USA; [3]U.S. Geological Survey, Corvalis, OR, USA; [4]National Park Service, Homestead, FL, USA; [6]U.S. Fish and Wildlife Service, Vero Beach, FL, USA

2:00 **EVOLUTION OF INVENTORY AND MONITORING STRATEGIES AND USING QUALITATIVE DATA TO EVALUATE THE EFFECTIVENESS OF LONG-TERM RESTORATION EFFORTS ALONG THE LOWER RIO GRANDE -- Christopher R. Hathcock**; Lower Rio Grande Valley National Wildlife Refuge, Alamo, Texas

2:20 **STRIVING FOR SYSTEM CHANGE: SETTING OBJECTIVES AND MEASURING RESPONSE -- Denise J. Reed;** The Water Institute of the Gulf, Baton Rouge, LA, USA

2:40 **AN EVIDENCE-BASED EVALUATION OF THE CUMULATIVE EFFECTS OF TIDAL FRESHWATER AND ESTUARINE ECOSYSTEM RESTORATION ON ENDANGERED JUVENILE SALMON IN THE COLUMBIA RIVER --** HL Diefenderfer, **GE Johnson**, and RM Thom; Pacific Northwest National Laboratory, Marine Sciences Laboratory, Sequim, WA, USA

Tuesday, July 29, 2014 | 3:30pm – 5:00pm

21

Session #21: Deepwater Horizon-Related Programs in the Gulf of Mexico: An Overview of Program Goals and Activities

[Salon B]

Moderator: Rebecca Allee, NOAA, Stennis Space Center, MS

3:30 Session Overview

3:40 **NOAA RESTORE ACT SCIENCE PROGRAM: ADVANCING A HOLISTIC UNDERSTANDING OF THE GULF OF MEXICO -- Julien Lartigue[1]**, Russ Beard[2], Shelby Walker[3] and Rebecca J. Allee[2]; [1]CSS-Dynamac, Stennis Space Center, MS, USA; [2]NOAA, Stennis Space Center, MS, USA; [3]NOAA, Silver Spring, MD, USA

4:00 **THE NAS GULF RESEARCH PROGRAM: AN OVERVIEW -- Chris Elfring[1]**, Kim Waddell[2], LeighAnne Olsen[3]; [1]National Academy of Sciences, Washington, DC, USA; [2] National Academy of Sciences, Washington, DC, USA; [3] National Academy of Sciences, Washington, DC, USA

4:20 **THE GULF OF MEXICO RESEARCH INITIATIVE; A NEW RESEARCH PARADIGM -- Charles A. Wilson** and Michael J. Carron; Gulf of Mexico Research Initiative, Ocean Springs, MS, USA

4:40 **UPDATE ON GULF COAST ECOSYSTEM RESTORATION COUNCIL ACTIVITIES -- Robert Kröger**; Gulf Coast Ecosystem Restoration Council, Stennis Space Center, MS, USA

22

Session #22: Post Hurricane Sandy - Increasing Resilience: Lessons Learned

[Salon C]

Moderator: Sarah Murdock, The Nature Conservancy, Boston, MA

3:30 Session Overview

3:40 **NATURE-BASED FEATURES IN A SYSTEMS APPROACH TO COASTAL STORM RISK MANAGEMENT --** Roselle E. Henn[1], Todd Bridges[2], Paul Wagner[3], Naomi Fraenkel[1], Peter Weppler[4,] Julie Rosati[5], and William Curtis[5]; [1]North Atlantic Division, US Army Corps of Engineers (USACE), Brooklyn, New York, USA; [2]Environmental Laboratory, Engineer Research and Development Center (ERDC), USACE, Vicksburg, Mississippi, USA; [3]Institute for Water Resources, USACE, Alexandria, Virginia, USA; [4]New York District, USACE, New York, New York, USA; [5]Coastal and Hydraulics Laboratory, ERDC, USACE, Vicksburg, MS, USA *Presented by **Sarah J. Miller**, U.S. Army ERDC, Vicksburg, MS*

4:00 **NATURE REDUCES THE IMPACTS OF STORMS. WHAT'S NEXT? -- Greg Guannel[1]**, Katie Arkema[1], Gregg Verutes[1], Joe Faries[1], Chris Shepard[2], Zach Ferndana[2], Robert Griffin[1] and Anne Guerry[1]; [1]The Natural Capital Project, Stanford, CA, USA; [2]The Nature Conservancy, Santa-Cruz, CA, USA

4:20 **DECISION-MAKING TOOLS, ECOSYSTEM SERVICE -- Elizabeth Schuster**, The Nature Conservancy, New Jersey, USA

4:40 **SLR AND SUBSIDENCE EFFECTS ON THE COASTAL LANDSCAPE AND THE RISE IN VULNERABILITY TO COASTAL NATURAL RESOURCES, COMMUNITIES, INFRASTRUCTURE -- Timothy Osborn[1]**, Jim Mitchell[2] and Darren Wright[1]; [1]NOAA, Silver Spring, MD; [2]Louisiana DOTD

23

Session #23: The Central Everglades Planning Project: The Application of Key Scientific Products Developed By the RECOVER Science Program to the Accelerated Planning Process

[Salon D]

Moderator: Patricia Gorman, S.F.W.M.D., West Palm Beach, FL

3:30 Session Overview

3:40 **INFORMING WATER MANAGEMENT DECISIONS IN LARGE SCALE RESTORATION PROGRAMS: THE USE OF ECOLOGICAL MODELS IN THE EVALUATION OF PROJECT PLANS -- Agnes McLean,** National Park Service, Homestead, FL, USA

4:00 **FORECASTING SEAGRASS AND OYSTER HABITAT RESPONSES TO 41 Y (1965-2005) OFALTERED FRESHWATER INFLOWS TO THE ST. LUCIE AND CALOOSAHATCHEE ESTUARIES -- C. Buzzelli**, P. Gorman, Z. Chen, Y. Wan and P. Doering; South Florida Water Management District, West Palm Beach, FL ,USA

4:20 **EVERGLADES CONNECTIVITY THROUGH THE EYES OF THE SOUTH FLORIDA ESTUARIES -- Susan K. Kemp[1*]**, Patrick A. Pitts[2], David A. Rudnick[3], Richard Alleman (Ret.)[4], Laura Brandt[5], Joan Browder[6], Christopher Kelble[7], and Christopher Madden[4]; [1]USACE, Jacksonville, FL, USA; [2]U.S. Fish & Wildlife Service, Vero Beach, FL, USA; [3]Everglades National Park, Homestead, FL, USA; [4]South Florida Water Management District, West Palm Beach, FL, USA; [5] U.S. Fish & Wildlife Service, Davie, FL, USA; [6]NOAA - National Marine Fisheries Service, Miami, FL, USA; [7]National Oceanic and Atmospheric Administration – Atlantic Oceanographic and Meteorological Laboratory, Miami, FL, USA
[*]Current affiliation: U.S. Geological Survey, Corvallis, OR, USA

4:40 **DEVELOPMENT OF ADAPTIVE MANAGEMENT STRATEGIES TO IMPROVE CENTRAL EVERGLADES PLANNING PROJECT IMPLEMENTATION --** F. Sklar[1], L. Brandt[2], P. Gorman[1], K. Keefe[3], S. Kemp[4], **A. LoSchiavo[3]**, A. McLean[5], D. Rudnick[5], S. Traxler[6]; [1]South Florida Water Management District, West Palm Beach, FL, USA; [2]U.S. Fish and Wildlife Service, Davie, FL, USA; [3]USACE, Jacksonville, FL, USA; [4]USGS, Corvalis, OR, USA; [5]National Park Service, Homestead, FL, USA; [6]U.S. Fish and Wildlife Service, Vero Beach, FL, USA

24

Session #24: Global Perspectives on Restoring Waterways Affected by Industrial Contamination (Part 2 of 2)

[Salon E]

Moderator: Richard J. Wenning, ENVIRON , Portland , ME

3:30 Session Overview

3:40 **PLENTY OF EELS: INDUSTRIAL ACTIVITY, ENVIRONMENTAL QUALITY AND ECOLOGICAL RESTORATION IN THE PARRAMATTA RIVER, AUSTRALIA -- David Moore[1],** Paul Goldsworthy[2] and Richard J. Wenning[3]; [1]ENVIRON, San Diego, CA, USA; [2]ENVIRON, Hunter Valley, New South Wales, Australia; [2]ENVIRON International Corporation, Portland, ME, USA

4:00 **A TALE OF TWO RIVERS-- EVALUATING RESTORATION METHODS WITH BAYESIAN NETWORKS IN THE SOUTH RIVER (VA) AND PUYALLUP RIVER (WA) -- Wayne G. Landis,** Kim K. Ayre, Carlie E. Herring, Annie F. Johns, Eleanor E. Hines, Jonah Stinson and Heather M. Summers; Western Washington University, Bellingham WA, USA

4:20 **ENGINEERING AND CONSTRUCTION OF SOUTHERN CALIFORNIA LAGOONS WITH EMPHASIS ON SAN DIEGUITO LAGOON --** Conrad I. Leslie[1] and **Hany Elwany[2]**; [1]Q&S Engineering, San Diego, CA, USA; [2]Coastal Environments, La Jolla, CA, USA

4:40 **SELENIUM REDUCTION IN CONSTRUCTED WETLAND TREATMENT SYSTEMS: NATURALLY ATTENUATING PROBLEMATIC POLLUTANTS -- Katie A. Bland, PE**, Christopher J. Snider, PE, PG, and Dennis Haag; Burns & McDonnell Engineering Company, Inc., Kansas City, MO, USA

Tuesday, July 29, 2014 | 3:30pm – 5:00pm

25

Session #25: Restoring Water Quality along with Restoring the Gulf of Mexico (Part 2 of 2)

[Salon F]

Moderators: Troy Pierce[1] and Matthew Harwell[2]; [1] USEPA Gulf of Mexico Program, MS; [2]USEPA - Gulf Ecology Division, Gulf Breeze, FL

3:30 Session Overview

3:40 **ALTERNATIVE SHORELINE MANAGEMENT IN COASTAL MISSISSIPPI -- Melissa Pringle, Ph.D.[1]**, Tammy Wisco, P.E.[1], Willa Brantley[2], Jennifer Wittmann[2] and Mike Walker[2]; [1]Eco-Systems, Jackson, MS, USA; [2]Mississippi Department of Marine Resources, MS, USA

4:00 **MULTIPURPOSE WETLAND CREATION AND RESTORATION TO IMPROVE WATER QUALITY AND WILDLIFE HABITAT IN COASTAL URBAN BAYOUS -- George J. Guillen**, Misty Shepard, Kristen Vale and Jenny Oakley; Environmental Institute of Houston, University of Houston - Clear Lake, Houston, TX, USA

4:20 **RESTORING THE LOWER MISSISSIPPI RIVER BATTURE THROUGH PARTNERSHIPS -- James L. Cummins[1]** and Angeline Rodgers[2]; [1]Mississippi River Trust, Stoneville, MS, USA; [2]Lower Mississippi River Conservation Committee, Vicksburg, MS, USA

4:40 **RED BUG SLOUGH ECOSYSTEM RESTORATION -- Kathryn L. Meaux**; Sarasota County Government, Sarasota, FL USA

26

Session #26: The Missouri River Recovery Program (MRRP): Strengthening the Relationships Between Modeling, Monitoring, Adaptive Management and Planning

[Salon G]

Moderator: Craig Fleming, USACE - Omaha District , Yankton, SD

3:30 Session Overview

3:40 **EVALUATING THE EFFECTS OF CURRENT AND POTENTIAL RESTORATION MANAGEMENT ACTIONS FOR LEAST TERNS (*STERNULA ANTILLARUM*) AND PIPING PLOVERS (*CHARADRIUS MELODUS*) ON THE MISSOURI RIVER -- Kate E. Buenau**; Pacific Northwest National Laboratory, Sequim, WA, USA

4:00 **STRUCTURED DECISION MAKING, ADAPTIVE MANAGEMENT AND MISSOURI RIVER RECOVERY IMPLEMENTATION COMMITTEE: A PATH FORWARD -- Craig Fleming;** U.S. Army Corps of Engineers, Missouri River Recovery Program, Yankton, SD, USA

4:20 **MONITORING AND AM IN THE MRRP: LESSONS LEARNED AND TRANSITION TO A MORE INTEGRATED PROGRAM** -- Craig Fischenich[1], Craig Fleming[2], **Aaron Quinn[3];** [1]ERDC Environmental Laboratory, Vicksburg, MS, USA; [2] US Army Corps of Engineers, Omaha District, Yankton, SD, USA; [3] US Army Corps of Engineers, Omaha District, Omaha, NE, USA

4:40 **CONDUCTING AN EFFECTS ANALYSIS FOR SYSTEM-WIDE EVALUATION OF ENDANGERED SPECIES STATUS ON THE MISSOURI RIVER -- Craig Fischenich[1]** and Kate Buenau[2]; [1]ERDC Environmental Laboratory, Vicksburg, MS, USA; [2]Pacific Northwest National Laboratory, Sequim, WA, USA

27

Session #27: Restoration in Action - Case Studies

[Salon H]

Moderator: Eddy Carter, GEC, Inc., Baton Rouge, LA

3:30 Session Overview

3:40 **PORT ALTO BEACH WETLAND RESTORATION AND CONSERVATION PROJECT** -- Juan C. Moya[1*], **Cris K. Weber[1*]** Norman E. Kramer[2], Bryan D. Flynn[3]; [1]Atkins North America, Ports and Coastal Engineering, Austin, TX, USA; [2]Atkins North America, Ports and Coastal Engineering, Houston, TX, USA; [3]Atkins North America, Ports and Coastal Engineering, Tampa, FL, USA; [*]*Current affiliation: Freese & Nichols, Inc., Austin, TX, USA*

4:00 **NON ROCK ALTERNATIVE TO SHORELINE PROTECTION DEMONSTRATION PROJECT -- Jamie Bartel[1]**, Scott Bartkowski[2], Tom Brown[3] and Tim Hillier[4]; [1]CDM Smith, Baton Rouge, LA, USA; [2]Living Shoreline Solutions, Inc., Dade City, FL, USA; [3]Living Shoreline Solutions, Inc., Dade City, FL, USA; [4]CDM Smith, Cambridge, MA, USA

4:20 **EAU GALLIE RIVER AND ELBOW CREEK MUCK DREDGING AND ENVIRONMENTAL RESTORATION, MELBOURNE, FLORIDA** -- **Joe Wagner, P. E.**, Jonathon T. Armbruster, P.E., and John F. Adams, P.E.; Taylor Engineering Inc., Jacksonville, FL, USA

4:40 **REMOVING BARRIERS TO TIDAL HYDROLOGY AT MARSHES IN MAGNOLIA BEACH AND INDIANOLA, TEXAS – R.A. Feagin[1]**, T. Huff, A. Hinson, A. Biedenharn and J. Moya[2*]; [1]Texas A&M University, College Station, TX, USA; [2]Atkins Global, Inc., Austin, TX, USA; [*]*Current affiliation: Freese & Nichols, Inc., Austin, TX, USA*

28

Session #28: Involving Stakeholders in Planning for Restoration-Rationale, Constraints, Innovation, and Best Practices

[Salon I]

Moderator: Maura Wood, National Wildlife Federation, Baton Rouge, LA

3:30 Session Overview

3:40 **PUBLIC ENGAGEMENT AND THE GULF COAST ECOSYSTEM RESTORATION COUNCIL: MOVING UPSTREAM -- Bethany Kraft**; Gulf Coast Ecosystem Restoration Council, Stennis Space Center, MS, USA

4:00 **COMMUNITY ENGAGEMENT THROUGH SCENARIO BUILDING WORKSHOPS -- Craig E. Colten**; The Water Institute of the Gulf, Baton Rouge, LA, USA

4:20 **SCI-TEK: A METHOD FOR EFFECTIVE INTEGRATION OF TRADITIONAL ECOLOGICAL KNOWLEDGE INTO COASTAL RESTORATION DECISION-MAKING -- Matthew B. Bethel[1]**, Lynn F. Brien[2], Michelle M. Esposito[1], Corey T. Miller[1], Shirley B. Laska[1], Kristina J. Peterson[1], Rosina Philippe[3], Honora S. Buras[4], and Carol Parsons Richards[4]; [1]University of New Orleans, New Orleans, LA, USA; [2]Kansas State University, Manhattan, KS, USA; [3]The Community of Grand Bayou, Port Sulphur, LA, USA; [4]Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA

4:40 **ENGAGING THE PUBLIC IN PLANNING AND IMPLEMENTATION -- Camille Manning-Broome**; The Center for Planning Excellence, Baton Rouge, LA, USA

Tuesday, July 29, 2014 | 3:30pm – 5:00pm			
29	**30**		
Session #29: Shoreline Green Infrastructure: The Next Generation of Resilient Techniques **[Salon J]** **Moderator: Beth Spalding**, Atkins North America, Metairie, LA 10:30 Session Overview 10:40 **NATURE-BASED SHORELINE RESTORATION TECHNIQUES -- Terry Doss**; Biohabitats Inc., Glen Ridge, NJ, USA 11:00 **RESTORING URBAN WETLANDS FOR INCREASED COASTAL RESILIENCY: ASSESSING NEEDS AND PRIORITIES IN NYC -- Marit Larson**, Leah Beckett, Minona Heaviland and Jamie Ong; NYC Department of Parks, New York, NY, USA 11:20 **GREEN BULKHEADS IN THE CUYAHOGA RIVER NAVIGATION CHANNEL -- Christopher Streb[1]** and Elaine Price[2]; [1]Biohabitats, Baltimore, MD, USA; [2]Cuyahoga County Planning Commission, Cleveland, OH, USA 11:40 **LIVING SHORELINES AND WAVE ATTENUATION DEVICES: A HYBRID DESIGN SYSTEM -- William E. Young[1, 2]** and Douglas Janiec[3]; [1]Young Environmental, LLC, Jackson, NJ, USA; [2]USA Environment LP; [3]Cardno ENTRIX , New Castle, DE, USA	**Session #30: Application of Evidence-Based Evaluations (EBE) for Large-Scale Ecosystem Restoration Programs (Part 2 of 2)** **[Salon K]** **Moderator: Heida Diefenderfer**, Pacific Northwest National Laboratory, Sequim, WA 10:30 Session Overview 10:40 **WHAT IT REALLY TAKES TO TEST HYPOTHESES CONCERNING ECOSYSTEM RESTORATION AND SPECIES RECOVERY -- David R. Marmorek** and Carol Murray; ESSA Technologies, Vancouver, British Columbia, Canada 11:00 **APPROACHES TO EVIDENCE-BASED EVALUATION OF PUGET SOUND ECOSYSTEM RECOVERY -- Leska S. Fore[1]**, Scott Redman[1], Constance Sullivan[2], Tracy K. Collier[1]; [1]Puget Sound Partnership, Tacoma, WA, USA; [2]Puget Sound Institute, Tacoma, WA, USA 11:20 **MANAGING THE MULTI-AGENCY COLUMBIA ESTUARY ECOSYSTEM RESTORATION PROGRAM AND ASSISTING IN RECOVERY OF THREATENED AND ENDANGERED SPECIES -- Benjamin D. Zelinsky[1]**, Blaine D. Ebberts[2], and Lynne D. Kransow[3]; [1]Bonneville Power Administration, Portland, OR, USA; [2]US Army Corps of Engineers, Portland District, Portland, OR, USA; [3]National Oceanic and Atmospheric Administration, Portland, OR, USA 11:40 **EVALUATING EFFECTS OF ACTIONS ACROSS A RANGE OF UNCERTAINTY: APPROACHES TO EVIDENCE ASSESSMENT IN THE MISSOURI RIVER RECOVERY PROGRAM** -- Kate E. Buenau[1], Robert B. Jacobson[2], **Ronald M. Thom[1]**; [1]Pacific Northwest National Laboratory, Sequim, WA, USA; [2]U.S. Geological Survey, Columbia, MO, USA		

Wednesday, July 30, 2014 | 10:30am – 12:00pm

31

Session #31: Mississippi River Initiatives

[Salon B]

Moderator: Sidney Coffee, America's WETLAND Foundation, New Orleans, LA

10:30 Session Overview

10:40 **THE BIG RIVER WORKS -- Sidney Coffee**; America's WETLAND Foundation, New Orleans, LA, USA

11:00 **1 MISSISSIPPI: CAN THE RIVER COUNT ON YOU? -- Jennifer Browning**; Bluestem Communications, Chicago, IL, USA

11:20 **THE MISSISSIPPI RIVER: ON THE CUTTING EDGE OF PLACE-MAKING AND ADVANCED REGIONAL COLLABORATION IN THE U.S. -- Colin Wellenkamp**; Northeast Midwest Institute, Washington, DC, USA

11:40 **ENVISIONING FUTURE MANAGEMENT OF THE LOWER MISSISSIPPI** -- **Karen Gautreaux**, The Nature Conservancy, Baton Rouge, LA, USA

32

Session #32: Louisiana Coastal Restoration: Planning, Permitting, and Implementing Mississippi River Diversions

[Salon C]

Moderator: Mark R. Wingate, P.E., U.S. Army Corps of Engineers, New Orleans District, New Orleans, LA

10:30 Session Overview

10:40 **SOLICITING STAKEHOLDER INPUT TO INFORM THE PERMITTING PROCESS: MID-BARATARIA SEDIMENT DIVERSION AND RIVER RE-INTRODUCTION INTO MAUREPAS SWAMP -- Elizabeth L. Davoli**; Coastal Protection and Restoration Authority, Baton Rouge, LA, USA

11:00 **LOUISIANA COASTAL RESTORATION: PLANNING, PERMITTING, AND IMPLEMENTING RIVER DIVERSIONS -- David P. Muth**; National Wildlife Federation, New Orleans, LA, USA

11:20 **LEVEE BOARD'S PERSPECTIVE AND ROLE IN MISSISSIPPI RIVER DIVERSIONS -- Steve Wilson[1],** Jonathan Hird[2]; [1]Pontchartrain Levee District, Lutcher, LA, USA; [2]Moffatt & Nichol, Baton Rouge, LA, USA

11:40 **U.S. ARMY CORPS OF ENGINEERS PERSPECTIVE OF MISSISSIPPI RIVER DIVERSIONS -- Mark R. Wingate, P.E.**; U.S. Army Corps of Engineers, New Orleans District, New Orleans, LA, USA

33

Session #33: Engineering and Ecosystem Restoration (Part 1 of 2)

[Salon D]

Moderator: Steven Hall, LSU, Baton Rouge, LA

10:30 Session Overview

10:40 **COASTAL ENGINEERING DESIGN CRITERIA FOR LIVING SHORELINES -- Matt Campbell**[1] and Josh Carter[2]; [1] Coast & Harbor Engineering, Inc., Austin, TX USA; [2]Coast & Harbor Engineering, Inc., New Orleans, LA USA

11:00 **ALIGNING RESTORATION AND RISK REDUCTION OBJECTIVES? WE'VE GOT AN APP FOR THAT! -- Christine C. Shepard[1]**, Mike Beck[2], Katie Arkema[3] and George Raber[4]; [1]The Nature Conservancy Gulf of Mexico Program, Altamonte Springs, FL, USA; [2]The Nature Conservancy Global Marine Team, Santa Cruz, CA, USA; [3]Natural Capital Project, Seattle, WA, USA; [4]University of Southern Mississippi, Hattiesburg, MS, USA

11:20 **LIVING SHORELINE DEMONSTRATION PROJECT – ANALYSIS OF CONCEPT PERFORMANCE** -- **Josh Carter[1]**, Arpit Agarwal[2], Younes Nouri[3], and Tye Fitzgerald[4]; [1]Coast & Harbor Engineering, Inc., New Orleans, LA, USA; [2]Coast & Harbor Engineering, Inc., Austin, TX, USA; [3]Coast & Harbor Engineering, Inc., Seattle, WA, USA; [4]Louisiana Coastal Protection and Restoration Authority, Baton Rouge, LA, USA

11:40 **DISCUSSION**

34

Session #34: Innovative Coastal Habitat Restoration

[Salon E]

Moderator: Christopher Warn, Weston Solutions, Inc, Sarasota, FL

10:30 Session Overview

10:40 **WETLAND BIODIVERSITY RESTORATION IN AN ABANDONED SUGARCANE CULTIVATION SITE IN PUERTO RICO** -- José A. Cruz-Burgos[1], **Francisco J. Vilella[2]**, Richard M. Kaminski[3], and Marisel López-Flores[1]; [1]U.S. Fish and Wildlife Service, Caribbean Field Office, Boquerón, Puerto Rico; [2]U.S. Geological Survey, Mississippi Cooperative Fish and Wildlife Research Unit, MS, USA; [3]Department of Wildlife, Fisheries and Aquaculture, Mississippi State, USA

11:00 **USING AN INDIVIDUAL-BASED MODEL TO EVALUATE THE EFFECTS OF CHANGING HABITAT AND MULTIPLE FACTORS ON TIDAL MARSH FISHES -- Shaye Sable[1]** and Kenneth Rose[2]; [1]Dynamic Solutions, LLC, Baton Rouge, LA, USA; [2]Louisiana State University, Baton Rouge, LA, USA

11:20 **INNOVATIVE SOLUTION FOR COASTAL FISH NURSERY RESTORATION** -- Gilles Lecaillon[1]**, Fabien Dubas[2]**, Philippe Lenfant[3], Reda Neveu[4], Anaïs Gudefin[5]; [1]ECOCEAN, Montpellier, France; [2]ECOCEAN, Baltimore, MD, USA; [3]University of Perpignan, Perpignan, France; [4]University of Perpignan, Perpignan, France; [5]University of Perpignan, Perpignan, France

11:40 **AN INNOVATIVE APPROACH TO 'RESTORATION' OF GAS CANALS -- Joe Berg**; Biohabitats, Inc., Baltimore, MD, USA

Wednesday, July 30, 2014 | 10:30am – 12:00pm

35

Session #35: Adaptive Management and Monitoring

[Salon F]

Moderator: Bridget Barron, Platte River Recovery Implementation Program, Kearney, NE

10:30 Session Overview

10:40 **APPLYING A COMMON ADAPTIVE MANAGEMENT FRAMEWORK TO CHINOOK AND ECOSYSTEM RECOVERY IN PUGET SOUND** -- Jeanette Dorner[1], **Stacy J. Vynne**[1], Kari Stiles,[1] Leska Fore[1], Laura Blackmore[2], and Jacques White[3]; [1]Puget Sound Partnership, Olympia, WA, USA; [2] Cascadia Consulting, Seattle, WA, USA; [3] Long Live the Kings, Seattle, WA, USA

11:00 **BUILDING AND SUSTAINING INTEGRATED MONITORING NETWORKS IN THE FACE OF DECREASING FEDERAL AND STATE FUNDING -- Lea J. Rubin**[1], Peter Tango[2], William C. Dennison[3], Mark Bennett[4], Scott Phillips[5]; [1]Chesapeake Research Consortium, CBPO, Annapolis, MD, USA; [2]U. S. Geological Survey, CBPO, Annapolis, MD, USA; [3]University of Maryland Center for Environmental Science, Annapolis, MD, USA; [4]U.S. Geological Survey, Reston, VA, USA; [5]U.S. Geological Survey, Baltimore, MD, USA

11:20 **APPLICATION OF QUALITY ASSURANCE CONCEPTS FROM CHEMICAL MEASUREMENTS TO ECOLOGICAL MEASUREMENTS CONDUCTED DURING ECOSYSTEM RESTORATION MONITORING** -- Craig J. Palmer[1], **Molly Middlebrook Amos**[1], Martin A. Stapanian[2], Timothy E. Lewis[3], Louis J. Blume[4]; [1]CSC, Alexandria, VA, USA [2]U.S. Geological Survey, Sandusky, OH, USA; [3]U.S. Army Corps of Engineers, Vicksburg, MS, USA; [4]U.S. Environmental Protection Agency Great Lakes National Program Office, Chicago, IL, USA

Discussion

36

Session #36: Beneficial Reuse of Dredged Material - Linking Navigation Dredging to Ecosystem Restoration

[Salon G]

Moderator: Dilip Trivedi, Moffatt & Nichol, Walnut Creek, CA

10:30 Session Overview

10:40 **PAUL S. SARBANES ECOSYSTEM RESTORATION PROJECT AT POPLAR ISLAND – BENEFICIAL USE OF DREDGED MATERIAL -- Cassandra C. Carr**[1], Kenna Oseroff[1], Michelle Osborn[1], and Mark Mendelsohn[2]; [1]Maryland Environmental Service, Millersville, MD, USA; [2]United States Army Corps of Engineers, Baltimore, MD, USA

11:00 **LINKING NAVIGATION DREDGING TO ECOSYSTEM RESTORATION – SABINE REFUGE, LA -- L. Brad Inman**[1], Darryl Clark[2], Scott F. Wandell[1] and Robert Dubois[2]; [1]U.S. Army Corps of Engineers, New Orleans, LA, USA; [2]U.S. Fish & Wildlife Service, Lafayette, LA, USA

11:20 **PORT METRO VANCOUVER HABITAT ENHANCEMENT PROGRAM -- Michael Cho**[1] and Gord Ruffo[2]; [1]Moffatt & Nichol, Vancouver, BC, Canada; [2]Port Metro Vancouver, Vancouver, BC, Canada

11:40 **BENEFICIAL REUSE OF DREDGED MATERIAL – THE SAN FRANCISCO BAY EXPERIENCE -- Dilip Trivedi**[1], John Bourgeois[2]; [1]Moffatt & Nichol, Walnut Creek, CA, USA; [2]California State Coastal Conservancy, Oakland, CA, USA

37

Session #37: Economics and Ecosystem Services

[Salon H]

Moderator: Dilip Trivedi, Moffatt & Nichol, Walnut Creek, CA

10:30 Session Overview

10:40 **POST-RESTORATION ECOSYSTEM SERVICE EVALUATION OF A SEASONALLY CLOSED ESTUARY: MALIBU LAGOON CASE STUDY -- I.D. Medel**, K.K. Johnston and M. Abramson; Santa Monica Bay Restoration Commission, Los Angeles, CA, USA

11:00 **ECONOMIC MODELING FOR EVERGLADES RESTORATION: A TEN-YEAR PERSPECTIVE -- Richard Weisskoff**; University of Miami, Coral Gables, FL, USA

11:20 **INCORPORATING SPATIAL AND TEMPORAL LANDSCAPE DYNAMICS IN ECOSYSTEM RESTORATION STRATEGIES AND RESILIENCE PLANS** -- Don. R. Reimer[1], **David A. Hanson**[2], Wendi Goldsmith[3], Alan Wolfson[4], and Mark Buckley[4]; [1]D.R. Systems Group, Nanaimo, British Columbia, Canada; [2]HansonRM, Sammamish, Washington, USA; [3]Bioengineering Group, Salem, Massachusetts, USA; [4]Biomass Options, Portland, Oregon, USA; [4]ECONorthwest, Portland, Oregon, USA

11:40 **CRITICAL EVALUATION OF STREAM RESTORATION PRACTICE USING SEMI-STRUCTURED INTERVIEWS, SURVEYS AND FIELD CASE STUDIES -- Colleen E. Bronner**; California State University, Chico, CA, USA

38

Session #38: Innovative Terrestrial Restoration and Partnerships (Part 1 of 2)

[Salon I]

Moderator: David Ross, NRDAR Dept of Interior, Denver, CO

10:30 Session Overview

10:40 **HEALTHY FORESTS AND RENEWABLE ENERGY -- Therese Glowacki**, Boulder County Parks and Open Space, Longmont, CO, USA

11:00 **RESTORING FORESTS ON MINE LAND IN APPALACHIA** -- Patrick Angel[1], **Sarah Hall**[2], Carl Zipper[3], Christopher Barton[4], Jeffrey Skousen[5], Jennifer Franklin[6], James Burger[7]; [1]US Department of Interior Office of Surface Mining, London, KY, USA; [2]Berea College, Berea, KY, USA; [3]Virginia Polytechnic Institute and State University, Blacksburg, VA, USA; [4]University of Kentucky, Lexington, KY, USA; [5]West Virginia University, Morgantown, WV, USA; [6] University of Tennessee, Knoxville, TN, USA; [7] Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

11:20 **EMERGING RESTORATION APPROACHES FOR DISTURBED MOJAVE DESERT SHRUBLANDS AND THE SEARCH FOR SUITABLE NATIVE PLANT MATERIALS -- Lesley A. DeFalco**; U.S. Geological Survey, Western Ecological Research Center, Henderson, NV, USA

11:40 **IMPLEMENTING A LANDSCAPE-LEVEL OAK HABITAT RESTORATION INITIATIVE WITH LOCAL WORKFORCE PARTNERSHIPS** -- Marko Bey[1], CalLee Davenport[2] and **David Ross**[3*]; [1]Lomakatsi Restoration Project, Ashland, OR, USA; [2]Partners for Fish and Wildlife Program Coordinator, U.S. Fish and Wildlife Service, Portland, OR, USA; [3]Partners for Fish and Wildlife Program, U.S. Fish and Wildlife Service, Klamath Falls, OR, USA **Current affiliation: Natural Resource Damage Assessment and Restoration Program, Department of the Interior, Denver Federal Center, CO, USA*

Wednesday, July 30, 2014 | 10:30am – 12:00pm

39

Session #39: Opportunities and Challenges for Blue Carbon Sequestration and Application

[Salon J]

Moderator: Jeff Supak, Global Green, USA, New Orleans, LA

10:30 Session Overview

10:40 **LANDSCAPE EFFECT OF MISSISSIPPI RIVER DIVERSIONS ON SOIL ORGANIC CARBON SEQUESTRATION IN LOUISIANA DELTAIC WETLANDS -- Hongqing Wang[1]**, Gregory D. Steyer[1], Brady R. Couvillion[1], Holly J. Beck[1], John M. Rybczyk[2] and Victor H. Rivera-Monroy[3]; [1]U.S. Geological Survey, Baton Rouge, LA, USA; [2] Western Washington University, Bellingham, WA, USA; [3]Louisiana State University, Baton Rouge, LA, USA

11:00 **WETLAND CARBON OFFSETS OF THE MISSISSIPPI RIVER DELTA -- Sarah K. Mack[1]**, Robert R. Lane[2], John W. Day[3], Christine Yankel[4] and Richard Kempka[4]; [1]Tierra Resources LLC, 1310 St. Andrew St. Suite 1 New Orleans, LA 70130 USA; [2] Louisiana State University, Baton Rouge, LA, USA; [3]Louisiana State University, Baton Rouge, LA, USA; [4]The Climate Trust, Portland, OR, USA

11:20 **CARBON STORAGE DYNAMICS IN AN OLD-GROWTH, TEMPERATE DECIDUOUS FOREST: UNDERSTANDING THE BIODIVERSITY-ECOSYSTEM FUNCTION RELATIONSHIP -- Jessica G. Davis** and Ryan W. McEwan; University of Dayton Department of Biology, Dayton, OH, USA

11:40 **AMAZON BIOMASS IN THE CARBON CYCLE** -- **Prof. Jorge Paladino Corrêa de Lima, PhD**; Federal Rural University of Rio de Janeiro, Brazil

40

Session #40: Ecosystem Restoration on the Lower Colorado River

[Salon K]

Moderator: Matthew Grabau, GeoSystems Analysis, Inc., Tucson, AZ

10:30 Session Overview

10:40 **HABITAT MANAGEMENT AND CREATION TO BALANCE ANTHROPOGENIC REQUIREMENTS AND SPECIES CONSERVATION IN THE UNITED STATES -- Terry Murphy**; U.S. Bureau of Reclamation, Boulder City, NV, USA

11:00 **A LANDSCAPE-SCALE RESTORATION EXPERIMENT: THE 2014 SPRING FLOOD FLOW RELEASE TO THE COLORADO RIVER DELTA, MEXICO** -- **Karen J. Schlatter[1]**, Karl W. Flessa[2], and the Delta Science Team[3]; [1]Sonoran Institute, Tucson, AZ, USA; [2]University of Arizona, Tucson, AZ, USA; [3]A collaboration of scientists from organizations in both the U.S. and Mexico working to develop and implement the Minute 319 monitoring plan

11:20 **RESTORATION CHALLENGES AND SUCCESSES IN MEXICO: PLANNING, PARTNERSHIPS, AND COMMUNITY ENGAGEMENT -- Francisco Zamora-Arroyo** and Karen J. Schlatter; Sonoran Institute, Tucson, AZ, USA

11:40 **THE ECOSYSTEM RESPONSE TO RESTORATION: BIRDS AND VEGETATION IN THE COLORADO RIVER DELTA -- Osvel Hinojosa-Huerta[1]**, Edward P. Glenn[2], Alejandra Calvo Fonseca[1]; [1] Pronatura Noroeste, Ensenada, Baja California, Mexico; [2] Environmental Research Laboratory, University of Arizona, Tucson, AZ, USA

Wednesday, July 30, 2014 | 1:30pm – 3:00pm

41

Session #41: Landscape-Scale Restoration in Coastal Louisiana: The Use of Data-Driven Science Applications to Support Planning and Assessment

[Salon B]

Moderator: Gregory D. Steyer, U.S. Geological Survey, National Wetland Research Center, Baton Rouge, LA

1:30 Session Overview

1:40 **PREDICTIVE MODELS TO SUPPORT EVALUATION AND SELECTION OF RESTORATION AND PROTECTION ALTERNATIVES --** Natalie Peyronnin, Mandy Green, **Angelina Freeman** and Joseph 'Wes' LeBlanc; Coastal Protection and Restoration Authority, Baton Rouge, LA, USA

2:00 **MISSISSIPPI RIVER HYDRODYNAMIC STUDY: UNDERSTANDING SEDIMENT AVAILABILITY AND DELIVERY FOR LAND BUILDING -- Ehab A. Meselhe**; The Water Institute of the Gulf, Baton Rouge, LA, USA

2:20 **COASTWIDE REFERENCE MONITORING SYSTEM-*WETLANDS*: PROVIDING DATA FOR LOUISIANA'S RESTORATION AND PROTECTION PROGRAMS -- Dona Weifenbach**; Coastal Protection and Restoration Authority of Louisiana, Lafayette, LA, USA

2:40 **AN ADAPTIVE MANAGEMENT FRAMEWORK DRIVEN BY COMPREHENSIVE MONITORING AND MODELING INVESTMENTS --** Michelle L. B. Meyers[1], **Gregory D. Stey**er[2], Tomma K. Barnes[3], Carol P. Richards[4], and William P. Klein Jr.[5]; [1]U.S. Geological Survey, National Wetland Research Center, New Orleans, LA, USA; [2]U.S. Geological Survey, National Wetland Research Center, Baton Rouge, LA, USA; [3]U.S. Army Corps of Engineers, Wilmington, NC, USA; [4]Coastal Protection and Restoration Authority, Baton Rouge, LA, USA; [5]U.S. Army Corps of Engineers, New Orleans, LA, USA

42

Session #42: Advances in Science / Modeling in Louisiana

[Salon C]

Moderator: John Foret, NOAA/NMFS , Lafayette , LA

1:30 Session Overview

1:40 **MODELS TO PREDICT THE EFFECTS OF COASTAL RESTORATION IN LOUISIANA ON FISH AND WILDLIFE -- J.A. Nyman[1]**, D.M. Baltz[2], M.D. Kaller[1], P.L. Leberg[4], C. Parsons Richards[3], R.P. Romaire[1] and T.M. Soniat[5]; [1]Louisiana State University Agricultural Center, Baton Rouge, LA, USA; [2]Louisiana State University, Baton Rouge, LA, USA; [3]Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA; [4]University of Louisiana at Lafayette, Lafayette, LA, USA; [5]University of New Orleans, New Orleans, LA, USA

2:00 **MODELING THE EFFECTS OF DIVERSIONS: CAN THE BIOLOGY AND DATA KEEP UP WITH COMPUTERS? -- Kenneth A. Rose[1]**, Dubravko Justic[1], Haosheng Huang[1], Shaye Sable[2], Kate S. Watkins[2] and Anindita Das[3]; [1]Louisiana State University, Baton Rouge, LA, USA; [2]Dynamic Solutions, Baton Rouge, LA, USA; [3]Appalachian State University, Boone, NC, USA

2:20 **ESTIMATING BENEFITS OF HYDROLOGIC RESTORATION AND FRESHWATER INTRODUCTION PROJECTS IN COASTAL WETLANDS -- Ron Boustany**; USDA Natural Resources Conservation Service, Lafayette, LA, USA

2:40 **RESTORING THE MISSISSIPPI RIVER DELTA: LESSONS LEARNED FROM LEGACY STRUCTURES -- Alisha A. Renfro**; National Wildlife Federation, New Orleans, LA, USA

43

Session #43: Engineering and Ecosystem Restoration (Part 2 of 2)

[Salon D]

Moderator: Steven Hall, LSU, Baton Rouge, LA

1:30 Session Overview

1:40 **MAKING THE CASE FOR BRINGING NATURAL INFRASTRUCTURE TO SCALE -- Jeff DeQuattro[1]**, Kacky Andrews[2], Justin Rice[3], Mark Dumesnil[3] and Jennifer Greene[1]; [1]The Nature Conservancy Gulf of Mexico Program, Mobile, AL, USA; [2]The Nature Conservancy North America Region, Washington DC, USA; [3]The Nature Conservancy Texas Chapter, TX, USA

2:00 **AN OVERVIEW OF OYSTER REEF SHORELINE PROJECTS ON THE GULF COAST, AND BEYOND -- Tyler R. Ortego**; ORA Estuaries, Metairie, LA, USA

2:20 **SUCCESSES AND CHALLENGES OF OYSTER HABITAT RESTORATION IN LOUISIANA -- Seth Blitch[1]**, Amy Smith-Kyle[1], Megan LaPeyre[2] and Lindsey Schwarting[3]; [1]The Nature Conservancy, Baton Rouge, LA, USA; [2]U.S. Geological Survey, Baton Rouge, LA, USA; [3]Louisiana State University Agricultural Center, Baton Rouge, LA, USA

2:40 **DISCUSSION**

44

Session #44: Earth without Art is just Eh!

[Salon E]

Moderator: Nanciann Regalado, U.S. Fish and Wildlife Service, Atlanta, GA

1:30 Session Overview

1:40 – 3:00 **Panelists**: **Nanciann Regalado[1]**, **Stu Appelbaum[2]**, **Gwen Eyeington[3]** and **Lucy M. F. Keshavarz[4]**; [1]U.S. Fish and Wildlife Service, Atlanta, GA, USA; [2]ARCADIS, Jacksonville Beach, FL, USA; [3]Artist, J. Ross Publishing, Inc., Jupiter FL, USA; [4]Art and Culture Group, Inc., Palm Beach Gardens, FL, USA

This panel will focus on the importance of art in communicating restoration, an often over-looked component.

Appelbaum will share struggles of implementing the large multi-decade Everglades restoration program. Regalado will discuss challenges of running a large outreach program for the Everglades. Eyeington, an Everglades artist will discuss her perspective of being a "pure artist" in the restoration community. Finally, Keshavarz, an artist and arts consultant will discuss her EcoArt projects that involve collaboration with scientists and engineers in creating unique restoration projects that make the invisible visible and offer cross-audience pollination opportunities.

Wednesday, July 30, 2014 | 1:30pm – 3:00pm

45

Session #45: Utilizing Wetlands and Marshes for Mitigation

[Salon F]

Moderator: Karen Appell, AECOM, New York, NY

1:30 Session Overview

1:40 **APPLICATION OF HGM IN THE EVALUATION OF THE SUCCESS OF A MISSISSIPPI TIDAL MARSH MITIGATION PROJECT -- Joseph Shisler[1]**, Gary Markiewicz [1], Jeff Becker[2], Jennifer Kriczky[1], and Matt Adkins[3]; [1]ARCADIS, Cranbury, NJ, USA; [2] ARCADIS, Augusta, GA, USA; [3] CSX Transportation, Inc., Lithia Springs, GA, USA

2:00 **RESTORATION AT THE LANDSCAPE SCALE, SWEETWATER MITIGATION BANK, NORTHWEST FLORIDA, USA -- John D. Tobe**, R. Alani Davis and Joseph N. Schuster; Ecological Resource Consultants, Inc., Tallahassee, FL, USA

2:20 **AQUATIC MITIGATION FOR THE MODIFIED CENTRAL CITY PROJECT: RIVERSIDE OXBOW AND SYCAMORE CREEK RESTORATION -- Brian Murphy** [1], Woody Frossard [2], Mandy McGuire[3], Mike Oleson[4]; [1]CDM Smith, Denver, CO, USA; [2]Tarrant River Vision Authority, Fort Worth, TX, USA; [3]U.S. Army Corps of Engineers, Fort Worth, TX, USA; [4]CDM Smith, Fort Worth, TX, USA

2:40 **MARITIME GRASSLAND CREATION AND SHORELINE STABILIZATION** -- **Kathryn Sommo, CPESC, ISA Certified Arborist**[1], Amanda Lulow[1], Dennis Flynn, RLA[2]; [1]Roux Associates, Inc., Islandia, NY, USA; [2]City of New York Department of Parks & Recreation, NY, USA

46

Session #46: Reef Restoration

[Salon G]

Moderator: Brant Richard, Stanley Consultants Inc, Baton Rouge, LA

1:30 Session Overview

1:40 **OYSTER REEF RESTORATION: RESTORING ECOLOGICAL FUNCTION** -- David Buzan[1*], Mark Dumesnil[2], **Paul Jensen[1]**, Julie Sullivan[2], and Matthew Mahoney[1]; [1]Atkins, Austin, TX, USA; [2]The Nature Conservancy, Corpus Christi, TX, USA; [*]*Current affiliation: Freese & Nichols, Inc., Austin, TX, USA*

2:00 **REBUILDING CORAL REEF STRUCTURE AND COMPLEXITY FOLLOWING ANTHROPOGENIC DISTURBANCE -- William F. Precht**; Dial Cordy and Associates, Inc., Miami, FL, USA

2:20 **LESSONS LEARNED OVER 7 YEARS OF ACROPORA RESTORATION AND PROPAGATION IN FLORIDA AND THE CARIBBEAN -- Stephanie A. Schopmeyer**[1], Diego Lirman[1], and Victor M. Galvan[2]; [1]University of Miami/RSMAS, Miami, FL, USA; [2]PUNTACANA Ecological Foundation, Punta Cana, DR

2:40 **AN ECOSYSTEM-BASED APPROACH TO CORAL REEF ECOSYSTEM RESTORATION: UNDERSTANDING THE ROLE OF HERBIVORY AND PREDATOR/PREY INTERACTIONS TO GUIDE THE DEVELOPMENT OF A COMPREHENSIVE CORAL REEF RESTORATION STRATEGY -- William C. Sharp** and Gabriel A. Delgado; Florida Fish and Wildlife Conservation Commission, Marathon, FL, USA

47

Session #47: Woodland Ecosystem Restoration

[Salon H]

Moderator: Alton James, Jr., USDA-NRCS, Boutte, LA

1:30 Session Overview

1:40 **ENHANCING ESTABLISHMENT OF WHITE OAK AND AMERICAN HAZELNUT ENRICHMENT PLANTS IN A MESIC FOREST USING UNDERSTORY REMOVAL AND GROUP SELECTION -- Kurt M. Dreisilker**[1], Jeffrey Dawson[2] and Andrew Koeser[3]; [1]The Morton Arboretum, Lisle, Illinois, USA; [2]University of Illinois at Urbana-Champaign, Urbana, Illinois, USA; [3]Department of Environmental Horticulture, University of Florida – GCREC, Wimauma, FL, USA

2:00 **NURSERY PRODUCTION OF HIGH QUALITY ASPEN SEEDLINGS: THE IMPACT OF GROWTH ENVIRONMENT ON SEEDLING STOCK** -- **Jeff W.G. Kelly**, Simon M. Landhäusser, and Pak S. Chow; University of Alberta, Edmonton, Alberta, Canada

2:20 **RESTORING THE AMERICAN CHESTNUT: OPTIMIZING FOUNDER SPACING TO PROMOTE POPULATION GROWTH AND GENETIC DIVERSITY RETENTION -- Steven H. Rogstad**[1] and Stephan Pelikan[2]; [1]Department of Biological Sciences, University of Cincinnati, Cincinnati, OH, USA; [2]Department of Mathematical Sciences, University of Cincinnati, Cincinnati, OH, USA

2:40 **ASSESSING THE RESTORATION POTENTIAL OF COAST REDWOOD (*SEQUOIA SEMPERVIRENS*) FORESTS USING A CHRONOSEQUENCE OF NATURAL RECOVERY** -- **Will Russell[1]**, Kristin Michels[2], and Jeff Sinclair[1]; [1]San Jose State University, San Jose, CA, USA; [2]University of Wisconsin, Madison, WI, USA

48

Session #48: Innovative Terrestrial Restoration and Tribal Partnerships (Part 2 of 2)

[Salon I]

Moderator: David Ross, NRDAR Dept of Interior, Denver, CO

1:30 Session Overview

1:40 **ESTABLISHMENT OF RHANTERIUM EPAPPOSUM OLIV. COMMUNITY AS FUNDAMENTAL STEP TO MITIGATE CLIMATE CHANGE IN KUWAIT -- Samira Omar Asem[1]** and Jose Kaitharath[2]; [1]Kuwait Institute for Scientific Research, Kuwait; [2]Faisal Sultan Al Essa: Al Faisaliya Farm, Kuwait

2:00 **RESTORING INDIGENOUS FIRES TO CALIFORNIA OAK WOODLANDS -- Don L. Hankins**; California State University, Chico, CA, USA

2:20 **NAVAJO AML RECLAMATION PROJECTS, NAVAJO NATION -- Melvin H. Yazzie**; Navajo Nation Department of Natural Resources, Navajo AML Reclamation Department, Shiprock, NM, USA

2:40 **CHALLENGES FACING SHRUBLAND REHABILITATION ON THE ARID ARABIAN PENINSULA: INSIGHT GAINED THROUGH PRECISION-SEEDING AND GREENSTOCK TRIALS** -- C. Ellery Mayence[1,2], Patrick Courtney[1], Jason C. Stevens[1,2], Khalid Al-Modimeagh[3], and **Kingsley W. Dixon[1,2]**; [1]Kings Park and Botanic Garden, West Perth, Western Australia; [2]School of Plant Biology, University of Western Australia, Crawley, WA, Australia; [3]Arriyadh Development Authority, Riyadh, Kingdom of Saudi Arabia

Wednesday, July 30, 2014 | 1:30pm – 3:00pm

49

Session #49: River, Stream and Lake Ecosystem Restoration

[Salon J]

Moderator: Jamil Ibrahim, MWH Americas, Inc, Sacramento, CA

1:30 Session Overview

1:40 **RESTORING THE NATURAL WATERSHED DIVIDE OF THE CHICAGO RIVER -- Robert Beduhn**[1], Paul Dierking[2], Tim Eder[3]; [1]HDR Engineering, Inc., Omaha, NE, USA; [2]HDR Engineering, Inc., Chicago, IL, USA; [3]Great Lakes Commission, Ann Arbor, MI, USA

2:00 **RESTORATION OF A GREAT LAKES COASTAL WETLAND: MEASURING ECOLOGICAL RESPONSE AND FUNCTION -- Mike Eggleston** and Kurt P. Kowalski; U.S. Geological Survey, Ann Arbor, MI, USA

2:20 **RESTORATION OF ECOSYSTEM FUNCTIONS AT A (NEW) DANUBE SIDE CHANNEL (BAVARIA/GERMANY) – THE CRUX OF TOO MUCH OR TOO LITTLE WATER -- Bernd Cyffka**, Peter Fischer, Barbara Stammel, Petra Lang, Martin Kuba and Marion Gelhaus; Floodplain Institute Neuburg, Catholic University of Eichstaett-Ingolstadt, Germany

2:40 **THE OIL SANDS OF ALBERTA (CANADA); RECLAIMING MARSH VEGETATION AFTER MINING --** A. Lee Foote[1,2], Federico P.O. Mollard[1,3], **Marie-Claude Roy**[1]; [1]University of Alberta, Edmonton, Alberta, Canada; [2]Devonian Botanic Garden; Edmonton, Alberta, Canada; [3]FAUBA, Buenos Aires, Argentina

50

Session #50: Real-Time Evaluation, Reporting, and Modeling of Ecosystem Restoration (Part 1 of 2)

[Salon K]

Moderator: Paul Conrads, USGS - SCWSC, Columbia, SC

1:30 Session Overview

1:40 **REAL-TIME MONITORING AND REPORTING OF THE LEADING EDGE OF AQUATIC INVASIONS: THE USGS NAS ALERT SYSTEM -- Matt Neilson**[1,2] and Pam L. Fuller[1]; [1]United States Geological Survey, Gainesville, FL, USA; [2] Cherokee Nation Technology Solutions, Gainesville, FL, USA

2:00 **A BIOLOGICAL DATA VIEWER FOR FLORIDA'S EVERGLADES: THE NEED FOR REAL-TIME DATA FOR INFORMED DECISION MAKING -- Stephanie S. Romañach**[1], Craig P. Conzelmann[2], and Kevin Suir[2]; [1]U.S. Geological Survey, Fort Lauderdale, FL, USA; [2]U.S. Geological Survey, Lafayette, LA, USA

2:20 **REAL-TIME REPORTING OF INUNDATION ON TREE ISLANDS IN THE FLORIDA EVERGLADES -- Pamela Telis**[1], Bryan McCloskey[2], and Paul Conrads[3]; [1]USGS Florida Water Science Center, Jacksonville, FL, USA; [2]USGS, St. Petersburg Coastal and Marine Science Center, St. Petersburg, FL, USA; [3]USGS South Carolina Water Science Center, Columbia, SC, USA

2:40 **INTEGRATION OF DISPARATE DATA SOURCES FOR REAL-TIME BEACH WATER QUALITY MODELING ON THE GREAT LAKES -- David M. Sibley**[1], Laura DeCicco[1], Steven R. Corsi[2], Rebecca B. Carvin[2], Wesley Brooks[2]; [1]U.S. Geological Survey, Center for Integrated Data Analytics, Middleton, WI, USA; [2]U.S. Geological Survey, Wisconsin Water Science Center, Middleton, WI, USA

Wednesday, July 30, 2014 | 1:30pm – 3:00pm

51

Session #51: Louisiana's Barrier Islands & Coastal System: Status and Restoration

[Salon B]

Moderator: Brad Inman, USACE - New Orleans District , New Orleans, LA

3:30 Session Overview

3:40 **CONSTRUCTION CHALLENGES IN RESTORING LOUISIANA'S BARRIER ISLANDS -- Steven R. Auernhamer**; Great Lakes Dredge & Dock Company, Oak Brook, IL, USA

4:00 **LOUISIANA'S BARRIER ISLANDS: THE FIRST LINE OF DEFENSE FOR COASTAL COMMUNITIES -- Peter Hahn**; Plaquemines Parish Government, Belle Chasse, LA, USA

4:20 **DEVELOPMENT OF THE CPRA OYSTER LEASE ACQUISITION AND COMPENSATION PROGRAM (OLACP) – FROM LITIGATION TO LEGISLATION -- Jason Shackelford**; SWCA Environmental Consultants, Baton Rouge, LA, USA

4:40 **CAPTURING A HOLISTIC UNDERSTANDING OF A LARGE MARINE ECOSYSTEM - NOAA'S GULF OF MEXICO DATA ATLAS -- Kathryn Rose**[1], Betsy Gardner[2], Russ Beard[2]; [1]General Dynamics Information Technology, Stennis Space Center, MS, USA; [2]NOAA National Coastal Data Development Center, Stennis Space Center, MS, USA

52

Session #52: PANEL SESSION: SPEAK UP! Share your Perspectives on the Current State of Knowledge and Practice in Ecological Restoration

[Salon C]

Moderator: Aida Farag, USGS, Gatineau , ON

3:30 Session Overview

3:40 – 5:00 **Panelists**: **Cheryl Ulrich**[1], **David Ross**[2], **Judy Haner**[3] and **Dale Gawlik**[4]; [1]Dewberry; [2]Natural Resource Damage Assessment, DOI Consulting; [3]The Nature Conservancy; [4]Florida Atlantic University

This session seeks your input on the current state of knowledge and practice in ecological restoration globally to inform a draft document by the Society for Ecological Restoration. An overview of key elements of the document will be provided, and panelists will raise questions for the audience and each other to consider. This is an interactive session to share your ideas, lessons learned, and on-the-ground case examples.

53

Session #53: Urban Ecosystem Restoration

[Salon D]

Moderator: Heath Kelsey, University of Maryland Center for Environmental Science, Cambridge, MD

3:30 Session Overview

3:40 **MEASURING SUCCESS IN URBAN FOREST RESTORATION -- Katerli Bounds**; NYC Parks, NY, NY, USA

4:00 **FUNCTIONAL FOREST OR GREEN DESERT: IS DURBAN'S FLAGSHIP REFORESTATION PROJECT MEETING STATED TARGETS? -- Kathryn E. Terblanche**[1,2], Kevin P. Kirkman[2], Hylton Adie[2], Errol Douwes[1] and Debra Roberts[1]; [1]eThekwini Municipality, Environmental Planning and Climate Protection Department, Durban, South Africa; [2]University of KwaZulu-Natal, School of Life Sciences, Scottsville, South Africa

4:20 **URBAN GRASSLANDS: STRATEGIES FOR VACANT LOTS AT THE CITY SCALE -- Wes Michaels**[1], Elizabeth Mossop[2] and Michael Averitt[3]; [1]Associate Professor, Louisiana State University, Urban Landscape Lab, New Orleans, LA, USA; [2]Professor, Louisiana State University, Urban Landscape Lab, New Orleans, LA, USA; [3]Research Associate, Louisiana State University, Urban Landscape Lab, New Orleans, LA, USA

4:40 **RESTORING FISH PASSAGE ON WHITEMARSH RUN -- Eileen K. Straughan** and Steve Collins, PE; Straughan Environmental, Inc., Columbia, MD, USA

54

Session #54: A "Campaign" Approach to Outreach and Information Using Media Across Multiple Platforms to Maximize Audience and Impact

[Salon E]

Moderators: David Donnenfield and Kevin White, Full Frame Productions, San Francisco, CA

A "Campaign" Approach to Outreach And Information Using Media Across Multiple Platforms to Maximize Audience and Impact -- David Donnenfield[1], **Kevin White**[1], Jennifer Boyce[2]; [1]Full Frame Productions, San Francisco, CA, USA; [2]NOAA, Long Beach, CA, USA

3:30 Session Overview

3:40 **CREATING AND USING MEDIA (VIDEO, PRINT COPY, PHOTOS, WEBSITES, ETC.) EFFECTIVELY AND ECONOMICALLY -- David Donnenfield**; Full Frame Productions, San Francisco, CA, USA

4:00 **STRAGIES FOR USING STORY AND LANGUAGE TO GALVANIZE SUPPORT FOR RESTORATION AND CONSERVATION EFFORTS -- Kevin White**; Full Frame Productions, San Francisco, CA, USA

4:20 – 5:00 **PLANNING FOR A MEDIA CAMPAIGN ON STEROIDS WITH A BUDGET ON LIFE SUPPORT -- David Donnenfield and Kevin White**; Full Frame Productions, San Francisco, CA, USA

Wednesday, July 30, 2014 | 1:30pm – 3:00pm

55

Session #55: Mitigation - Innovative Approaches

[Salon F]

Moderator: Sarah Peterson, U.S. Environmental Protection Agency, Edison, NJ

3:30 Session Overview

3:40 **A LARGE-SCALE NORTHEASTERN ECOSYSTEM RESTORATION PROJECT: SEEING THE DESIGN THROUGH CONSTRUCTION** -- **Christopher Benosky**[1], Karen Appell[1] and Michael Mak[2]; [1]AECOM, New York, NY, USA; [2]AECOM, Oakland, CA USA

4:00 **ANALYSIS OF COST-EFFECTIVE RESTORATION: PRINCIPLES AND TOOLS FOR REDUCING UNCERTAINTY IN DESIGN -- Natasha Bankhead** and Andrew Simon; Cardno ENTRIX, Oxford, MS, USA

4:20 **HYMENOXYS TEXANA – ENDANGERED PLANT MITIGATION FOR NEW ROAD -- Timothy D. Love**; AECOM, Houston, TX, USA

4:40 **TROPICAL STREAM CHANNEL RELOCATION DESIGN TO ACHIEVE RCRA AND SECTION 404 CLEAN WATER ACT OBJECTIVES -- Ben Nash**[1] and Ann M. Redmond[2]; [1]Brown and Caldwell, Raleigh, NC USA; [2]Brown and Caldwell, Maitland, FL USA

56

Session #56: Interface of Monitoring with the Adaptive Management of Ecosystem Restoration Projects

[Salon G]

Moderator: Raed El-Farhan, Louis Berger, Washington, DC

3:30 Session Overview

3:40 **IMPLEMENTATION OF ADAPTIVE MANAGEMENT STRATEGIES FOR BIO-ENGINEERED SHORELINE STABILIZATION IN GREAT EGG HARBOR BAY -- Robert A. Bevilacqua**[1], Rebecca Traylor[1] and Craig Metzgar[2]; [1]Michael Baker Jr., Inc., Hamilton, New Jersey, USA; [2]Amy S. Greene Environmental Consultants, Inc., Flemington, New Jersey, USA

4:00 **10 YEARS OF STREAM BANK MONITORING IN METRO ATLANTA -- Lori D. Visone**; Brown and Caldwell Huntsville, AL, USA

4:20 **4-YEAR ECOLOGICAL ASSESSMENT OF THE BALLONA WETLANDS TO INFORM RESTORATION PLANNING -- Karina Johnston** and Ivan Medel; Santa Monica Bay Restoration Commission, Los Angeles, CA, USA

4:40 **CREATING & SUSTAINING A GOVERNMENT ECOLOGICAL RESTORATION PROGRAM -- Tim Purinton**; Massachusetts Division of Ecological Restoration, Boston, MA, USA

57

Session #57: Exotic and Invasive Species

[Salon H]

Moderator: Bridget Zachary, U.S. Fish and Wildlife Service, Arlington, VA

3:30 Session Overview

3:40 **IMPACTS OF EXOTIC EARTHWORMS ON PLANT COMMUNITIES: IMPLICATIONS FOR RESTORATION AND INVASIVE SPECIES MANAGEMENT -- Michael J.M. McTavish**[1], Stephen D. Murphy[1] and Sandy Smith[2]; [1]University of Waterloo, Waterloo, ON, Canada; [2]University of Toronto, Toronto, ON, Canada

4:00 **MOISTURE REGIME GOVERNS WHICH FACTORS DRIVE REINVASION PRESSURE DURING RESTORATIONS OF INVADED HABITATS; RESULTS SUGGEST CRYPTIC OPPORTUNITIES FOR EASY RESTORATION -- Christopher A. Gabler**[123] and Evan Siemann[3]; [1]U.S. Geological Survey, Lafayette, LA, USA; [2]University of Houston, Houston, TX, USA; [3]Rice University, Houston, TX, USA

4:20 **THE PTERIDOPHYTE FIGHTS BACK! COMPETITION BETWEEN THE INVASIVE EXOTIC *EICHHORNIA CRASSIPES* AND THE STATE-ENDANGERED *CERATOPTERIS PTERIDOIDES*** -- **Brooklyn Krings**; Southern Illinois University Carbondale, IL, USA

4:40 **A NOVEL APPROACH TO WETLAND HABITAT RESTORATION: MAXIMIZING COLLECTIVE IMPACT THROUGH THE *PHRAGMITES* SYMBIOSIS COLLABORATIVE** -- Kurt Kowalski[1], Wes Bickford[1], Heather Braun[2]; [1]U.S. Geological Survey, Ann Arbor, MI, USA; [2]Great Lakes Commission, Ann Arbor, MI, USA *Presented by **Mike Eggleston**, U.S. Geological Survey, Ann Arbor, MI, USA*

58

Session #58: Landscape Conservation Cooperatives: Setting the stage for Landscape Level Conservation

[Salon I]

Moderator: Cynthia Kallio Edwards, Gulf Coast Prairie LCC, Lafayette, LA

3:30 Session Overview

3:40 **LANSCAPE CONSERVATION DESIGN AND STATEWIDE SEA LEVEL RISE AND URBANIZATION SCENARIOS FOR THE PENINSULAR FLORIDA LCC -- Steve Traxler**; Peninsular Florida LCC, Vero Beach, FL, USA

4:00 **THE SOUTH ATLANTIC CONSERVATION BLUEPRINT 1.0: A LARGE-SCALE COLLABORATIVE RESPONSE TO CHANGE** -- Rua S. Mordecai and **Hilary Morris**; South Atlantic Landscape Conservation Cooperative, Raleigh, NC, USA

4:20 **THE GULF COASTAL PLAINS & OZARKS LANDSCAPE CONSERVATION COOPERATIVE: DEFINING DESIRED ECOLOGICAL STATES TO GUIDE RESTORATION AND CONSERVATION -- John M. Tirpak**; U.S. Fish & Wildlife Service, Gulf Coastal Plains & Ozarks LCC, Lafayette, LA, USA

4:40 **GULF COAST VULNERABILITY ASSESSMENT: AN APPROACH TO ASSESS KEY DRIVERS OF ECOLOGICAL CHANGE IN GULF OF MEXICO ECOSYSTEM AND SPECIES -- Amanda Watson**[1], Kristen Kordecki[1], Kristin DeMarco[2], Cynthia Edwards[3]; [1]Gulf Coast Prairie LCC, Lafayette, LA, USA; [2]Louisiana State University, Baton Rouge, LA, USA; [3]Gulf Coast Prairie LCC, Lafayette, LA, USA

Wednesday, July 30, 2014 | 1:30pm – 3:00pm

59

Session #59: Ecological Restoration on Working Lands: Opportunities and Challenges

[Salon J]

Moderator: Margaret O'Gorman, Wildlife Habitat Council, Silver Spring, MD

3:30 Session Overview

3:40 **ECOLOGICAL RESTORATION OF BRIDGESTONE'S *NEW BEGINNINGS WOODLAWN WILDLIFE AREA* AND *WARREN COUNTY MANUFACTURING PLANT* -- Timothy A. Bent**; Director, Environmental Affairs, Bridgestone Americas, Inc., Nashville, TN, USA

4:00 **CASE STUDIES OF THE BALTIMORE SECOND HARBOR PROJECT – Jeffrey Popp**; Wildlife Habitat Council, Silver Spring, MD, USA

4:20 **ECOLOGICAL RESTORATION OF BLACK OAK SAVANNAS AND SAND PRAIRIES INSIDE A STEEL MILL: ARCELORMITTAL BURNS HARBOR – Marcy Twete**, Sustain Our Great Lakes Program, Environmental Management Department, ArcelorMittal Burns Harbor, Burns Harbor, IN, USA

4:40 **ECOLOGICAL RESTORATION ON WORKING LANDS: STAKEHOLDER DISCUSSION -- Margaret O'Gorman**, Jeff Popp, and Daniel Goldfarb, Wildlife Habitat Council, Silver Spring, MD, USA

60

Session #60: Real-Time Evaluation, Reporting, and Modeling of Ecosystem Restoration (Part 2 of 2)

[Salon K]

Moderator: Pamela Telis, U S Geological Survey, Jacksonville, FL

3:30 Session Overview

3:40 **THE DETAILS OF REAL-TIME REPORT CARDING THROUGH LOUISIANA'S COASTWIDE REFERENCE MONITORING SYSTEM -- Sarai Piazza[1]**, Marc Comeaux[2], Craig Conzelmann[2] and Dona Weifenbach[3]; [1]U.S. Geological Survey, Baton Rouge, LA, USA; [2]U.S. Geological Survey, Lafayette, LA, USA; [3]Coastal Protection and Restoration Authority of Louisiana, Lafayette, LA, USA

4:00 **USING COASTAL MONITORING DATA TO BUILD DYNAMIC REPORTS AND VISUALIZATIONS THROUGH THE COASTWIDE REFERENCE MONITORING SYSTEM WEBSITE -- Craig Conzelmann[1]**, Sarai Piazza[2], Marc Comeaux[1], and Chad Fanguy[1]; [1]U.S. Geological Survey, Lafayette, LA, USA; [2] U.S. Geological Survey, Baton Rouge, LA, USA

4:20 **AUTOMATED ONLINE ECOLOGICAL MODELING AND EVALUATION FOR EVERGLADES MANAGEMENT AND RESTORATION -- Leonard Pearlstine**[1], Suresh Goldconda[2], Kevin Suir[3], Alicia LoGalbo[1], Craig Conzelmann[3], Janice Parsons[1]; [1]National Park Service, Homestead, FL USA; [2]University of Louisiana at Lafayette, Lafayette, LA, USA; [3]U.S. Geological Survey, Lafayette, LA, USA

4:40 **CONTINUOUS, REAL-TIME NUTRIENT DATA AND REGRESSION MODELS – VALUABLE INFORMATION FOR MONITORING AQUATIC ECOSYSTEM RESTORATION -- Teresa J. Rasmussen**, Jennifer L. Graham and Mandy L. Stone; U.S. Geological Survey, Lawrence, KS, USA

Thursday, July 31, 2014 | 10:30am – 12:00pm

61

Session #61: Mississippi River Restoration from the Headwaters to the Gulf of Mexico

[Salon B]

Moderator: Marvin Hubbell, USACE - Rock Island District, Rock Island, IL

10:30 Session Overview

10:40 **RESTORTATION OF THE UPPER MISSISSIPPI RIVER: ST. PAUL TO ST. LOUIS --Marvin Hubbell**; U.S. Army Corps of Engineers, Rock Island District, IL, USA

11:00 **RESTORATION PLANNING EFFORTS IN THE MIDDLE MISSISSIPPI RIVER – FROM THE MOUTH OF THE MISSOURI RIVER TO THE OHIO RIVER --** Brian. L. Johnson; U.S. Army Corps of Engineers, St. Louis District, MO, USA
*Presented by **Marvin Hubbell**, U.S. Army Corps of Engineers, Rock Island District, IL, USA*

11:20 **RESTORING AMERICA'S GREATEST RIVER: COLLABORATIVE EFFORTS ALONG THE LOWER MISSISSIPPI -- Angeline J. Rodgers**[1], K. Jack Killgore[2], Paul Hartfield[3]; [1]U.S. Fish & Wildlife Service/Lower Mississippi River Conservation Committee, Vicksburg, MS, USA; [2]U.S. Army Corps of Engineers, Vicksburg, MS, USA; [3]U.S. Fish & Wildlife Service, Jackson, MS, USA

11:40 **RESTORATION IN THE MISSISSIPPI RIVER DELTA: OLD RIVER CONTROL STRUCTURE TO THE GULF OF MEXICO -- A. Carol Parsons Richards**, Bren Haase, Natalie Peyronnin, and Many Green; Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA

62

Session #62: Integrated River Basin Management (IRBM): Plan Development, Implementation, and Adaptation

[Salon C]

Moderator: Steve Mathies, AECOM, New Orleans, LA

10:30 Session Overview

10:40 **COLORADO RIVER BASIN MANAGEMENT – SUPPLY AND DEMAND -- Michael Gabaldon**; AECOM, Sacramento, CA, USA

11:00 **UTILIZATION OF AN INTEGRATED RIVER BASIN MANAGEMENT (IRBM) APPROACH FOR THE MEKONG DELTA DEVELOPMENT PLAN -- Dick Kevalam**; Royal HaskoningDHV, Amersfoort, The Netherlands

11:20 **AMERICA'S WATERSHED INITIATIVE - ENGAGING DIVERSE STAKEHOLDERS IN A COLLABORATIVE, INTEGRATED MANAGEMENT APPROACH TO AMERICA'S (MISSISSIPPI) WATERSHED -- Michael Reuter**; The Nature Conservancy, Peoria, IL, USA

11:40 **LOUISIANA'S MASTER PLAN FOR A SUSTAINABLE COAST: USING IRBM TO ASSIMILATE PRIORITIES OF MULTIPLE STAKEHOLDERS -- Jerome Zeringue**; Coastal Protection and Restoration Authority, Baton Rouge, LA, USA

63

Session #63: Region-Wide Restoration of a Rare Forest Type: Science and Practice in the America's Longleaf Restoration Initiative

[Salon D]

Moderator: Steven Jack, Jones Ecological Research Center, Newton, GA

10:30 Session Overview

10:40 **AN OVERVIEW OF THE AMERICA'S LONGLEAF RESTORATON INITIATIVE -- Glen D. Gaines**; U.S. Forest Service, Moulton, AL, USA

11:00 **THE ROLE OF LOCAL IMPLEMENTATION TEAMS IN ADVANCING LONGLEAF CONSERVATION AND RESTORATION -- Vernon S. Compton**; The Longleaf Alliance, Milton, FL, USA

11:20 **WILDLIFE RESPONSES TO LONGLEAF PINE HABITAT STRUCTURE RESTORATION -- R. Kevin McIntyre**[1], J. Barry Grand[2], Rickie White[3] and R. Randy Wilson[4]; [1]Joseph W. Jones Ecological Research Center, Newton, GA, USA; [2]U.S. Geological Survey, Auburn, AL, USA; [3]NatureServe, Durham, NC, USA; [4]U.S. Fish and Wildlife Service, Jackson, MS, USA

11:40 **ECOSYSTEM RESTORATION OVER SPACE AND TIME: AN EXAMPLE FROM THE RESTORATION OF LONGLEAF PINE SANDHILLS ON EGLIN AIR FORCE BASE, FLORIDA, USA -- Robert D. Sutter**[1], J. Kevin Hiers[2], L. Katherine Kirkman[3], and Analie Barnett[4]; [1]Enduring Conservation Outcomes, Savannah, GA, USA; [2]Eglin Air Force Base, Niceville, FL, USA; [3]Joseph W. Jones Ecological Research Center, Newton, GA, USA; [4]The Nature Conservancy, Atlanta, GA, USA

64

Session #64: Large-Scale Remediation and Restoration of Coastal Ecosystems in Saudi Arabia Damaged by the 1991 Gulf War Oil Spill

[Salon E]

Moderator: Jacqueline Michel, Research Planning, Inc., Columbia, SC

10:30 Session Overview

10:40 **OVERVIEW OF UNCC COASTAL REMEDIATION PROGRAMME IN SAUDI ARABIA -- Martin Guard**; Follow up Programme F4 Environmental Awards, United Nations Compensation Commission, Villa La Pelouse, Palais des Nations, Geneva, Switzerland

11:00 **IMPORTANCE OF ADAPTIVE MANAGEMENT IN DEVELOPING EFFECTIVE RESTORATION METHODS -- Jason A. Hale**[1], Chris Cormack[1], and Linos Cotaspas[2]; [1]Pandion Technology, Ltd., Limassol, Cyprus; [2]Research Planning, Inc., Columbia, SC, USA

11:20 **RESTORATION OF SALT MARSHES DAMAGED BY THE 1991 GULF WAR OIL SPILL -- Linos Cotsapas**[1], Jason Hale[2], Chris Cormack[2], and Jacqueline Michel[2]; [1]Research Planning, Inc., Columbia, SC, USA; [2]Pandion Technology, Ltd., Limassol, Cyprus

11:40 **USE OF MULTIMETRIC INDICES TO MONITOR ECOLOGICAL RECOVERY -- Lincoln Smith**[1], Thomas Minter[1], and Jason Hale[2]; [1]Research Planning, Inc., Columbia, SC, USA; [2]Pandion Technology, Ltd., Limassol, Cyprus

Thursday, July 31, 2014 | 10:30am – 12:00pm

65

Session #65: Aquatic Plant Species Restoration

[Salon F]

Moderator: Kate Healy, USFWS, Fairhope, AL

10:30 Session Overview

10:40 ***LABYRINTHULA*: AN OVERLOOKED AGENT OF GLOBAL SEAGRASS DECLINE AND POTENTIAL INHIBITOR OF SEAGRASS RESTORATION -- Brooke K. Sullivan**; Back To Nature Design, Seattle, WA, USA

11:00 **EFFECTS OF ORGANIC FERTILIZER (COW DUNG) AMENDMENT ON PHYTOREMEDIATION OF COPPER AND IRON-CONTAMINATED AQUATIC ENVIRONMENT BY WATER HYACINTH (*EICHHORNIA CRASSIPES* [MART.] SOLMS) -- P.E. Ndimele**, C.A. Kumolu-Johnson, O.O. Whenu and F.G. Owodeinde; Department of Fisheries, Faculty of Science, Lagos State University, Ojo, Lagos, Nigeria

11:20 **PERFORMANCE EVALUATION OF LARGE-SCALE ALGAL CULTIVATION FOR POLLUTION RECOVERY AND WATER QUALITY RESTORATION IN URBAN WATERSHEDS OF THE LOWER GREAT LAKES --** David Blersch; Biosystems Engineering Department, Auburn University, Auburn, AL, USA
*Presented by **Stacey Blersch**, University at Buffalo ERIE Program, Buffalo, NY, USA*

11:40 **INTEGRATING WATER QUALITY AND NATURAL FILTERS INTO MARYLAND'S MARINE SPATIAL PLANNING EFFORTS -- Nicole M. Carlozo**; Maryland Department of Natural Resources, Annapolis, MD, USA

66

Session #66: Urban Ecosystem Restoration: Greenspace Planning and Management

[Salon G]

Moderator: Scott Courtright, URS, Baton Rouge, LA

10:30 Session Overview

10:40 **RESTORATION OF OUR URBAN ECOLOGY TO IMPROVE WATER QUALITY -- Jeff S. Kuehny**[1], Scott Courtright[2], Wendy French[3] and Dale Campau[3]; [1]LSU AgCenter Botanic Gardens, Baton Rouge, LA USA; [2]URS Corporation, Baton Rouge, LA USA; [3]City of Baton Rouge, Baton Rouge, LA USA

11:00 **ACCOMPLISHING SUSTAINABILITY IN OUR URBAN ECOLOGY THROUGH PLANNING, MAINTENANCE AND RESTORATION AND ASSISTING COMMUNITIES WITH CREATIVE FUNDING STRATEGIES -- Keith Villere, FASLA**; Villere Town Planning, Covington, Louisiana, USA

11:20 **EXOTIC AND INVASIVE VEGETATION CONTROL AND THEIR IMPACTS IN OUR URBAN ECOSYSTEM -- Brian Sean Early**; URS Corporation, Baton Rouge, Louisiana, USA

11:40 **ASSESSING AND MANAGING THE URBAN FOREST AND CALCULATING THE BENEFITS -- Scott Courtright**; URS Corporation, Baton Rouge, Louisiana, USA

67

Session #67: Ridge and Shoreline Restoration

[Salon H]

Moderator: Scott Bartkowski, Living Shoreline Solutions Inc, Dade City, FL

10:30 Session Overview

10:40 **PLAQUEMINES PARISH PROGRAMATIC RIDGE RESTORATION, DESIGN, AND MANAGEMENT --** Brent Duet, **Brett McMann**, Alex Trahan; ARCADIS US INC, Baton Rouge, LA, USA

11:00 **NATURAL PROCESSES FOR SHORELINE STABILIZATION -- David Polster**; Polster Environmental Services Ltd., Duncan, British Columbia, Canada

11:20 **APPLICATION OF LIVING SHORELINE STABILIZATION METHODS TO PROTECT COASTAL SHELL MIDDENS IN MOSQUITO LAGOON, FL --** Linda Walters[1], **Melinda Donnelly[1],** Paul Sacks[1], Jennifer Manis[2], John Stiner[3]; [1]Department of Biology, University of Central Florida, Orlando, FL, USA; [2]Florida State Parks-District 4 Administration, Osprey, FL, USA; [3]Canaveral National Seashore, Titusville, FL, USA

11:40 **WAVE BARRIER ISLAND CHAIN RESTORATION: FROM CONCEPT TO CONSTRUCTION --** Lars Barber[1], **Matthew Clark[1]**, Dean Haen[2] and James Selegean[3]; [1]W.F. Baird & Associates, Madison, WI, USA; [2]Brown County Port and Solid Waste Department, Green Bay, WI, USA; [3]U.S. Army Corps of Engineers, Detroit, MI, USA

68

Session #68: Documenting Carbon Sequestration through Restoration Monitoring

[Salon I]

Moderator: Mike Hooper, USGS Columbia Environmental Research Center , Columbia , MO

10:30 Session Overview

10:40 **BEYOND REMEDIATION: DESIGNING AN ALTERNATIVE LANDFILL COVER FOR HABITAT RESTORATION AND CARBON SEQUESTRATION IN AN INDUSTRIAL CORRIDOR -- Michele L. Abbene[1],** J. Douglas Reid-Green[2], and Amanda Ludlow[1]; [1] Roux Associates Inc., NY, USA; [2] BASF Corporation, NJ, USA

11:00 **REDUCING SCIENTIFIC UNCERTAINTY OF GREENHOUSE GAS FLUXES FROM MISSISSIPPI RIVER DELTA WETLAND PROJECTS -- Guerry O. Holm, Jr.[1]**, Brian C. Perez[1], Richard Raynie[2], Charles Killebrew[2], and Doug Huxley[1]; [1]CH2M HILL, Baton Rouge, LA, USA; [2]Louisiana Coastal Protection and Restoration Authority, Baton Rouge, LA, USA

11:20 **ESTIMATING ECOSYSTEM CARBON STOCKS AT REDWOOD NATIONAL AND STATE PARKS USING INVENTORY AND FIRE EFFECTS MONITORING DATA -- Phillip van Mantgem[1]**, Mary Ann Madej[1], and Joseph Seney[2]; [1]U.S. Geological Survey, Western Ecological Research Center, Arcata, CA, USA [2]Redwood National and State Parks

11:40 **WETLAND CARBON OFFSETS OF THE MISSISSIPPI RIVER DELTA --** Sarah K. Mack[1], Robert R. Lane[2], John W. Day[3], Christine Yankel[4], Richard Kempka[4]; [1]Tierra Resources LLC, New Orleans, LA, USA; [2]Louisiana State University, Baton Rouge, LA, USA; [3]Louisiana State University, Baton Rouge, LA, USA; [4]The Climate Trust, Portland, OR, USA

Thursday, July 31, 2014 | 10:30am – 12:00pm

69

Session #69: Restoring Longleaf Pine Ecosystems: Linking Science and Practice

[Salon J]

Moderator: Ajay Sharma, University of Florida - WFREC, Milton, FL

10:30 Session Overview

10:40 **EVOLVING REFERENCE SYSTEMS FOR LONGLEAF PINE ECOSYSTEM RESTORATION -- Joan L. Walker[1]**, Joseph W. Veldman[2], Lars A. Brudvig[3], John L. Orrock[2], Ellen I. Damschen[2] and W. Brett Mattingly[4]; [1]U.S. Forest Service, Southern Research Station, Clemson, SC, USA; [2]Department of Zoology, University of Wisconsin, Madison, WI, USA; [3]Department of Plant Biology, Michigan State University, WI, USA; [4]Department of biology, Eastern Connecticut State University, Willimantic, CT, USA

11:00 **RESTORING PLANTATIONS TO MULTIFUNCTIONAL UNEVEN-AGED FOREST ECOSYTEMS: EXPERIENCES WITH ADAPTIVE MANAGEMENT AT TATE'S HELL STATE FOREST, FLORIDA -- Ajay Sharma[1],** Kimberly K. Bohn[1], and Shibu Jose[2]; [1]University of Florida, Milton, FL, USA; [2]University of Missouri, Columbia, MO, USA

11:20 **EXPERIMENTAL ESTABLISHMENT OF PROPAGATION STRIPS FOR LONGLEAF GROUNDCOVER PLANTS: IMPLICATIONS FOR RESTORATION -- Jeff Glitzenstein[1]**, Anthony J. Savereno[2], Donna R. Streng[3] and Robin Mackie[4]; [1]Tall Timbers Research Station, Tallahassee, FL, USA; [2]Clemson Pee Dee Research and Education Center, Florence, SC, USA; [1]Tall Timbers Research Station, Tallahassee, FL, USA; [4]U.S. Forest Service, Columbia, SC, USA

11:40 **COGONGRASS INVASION OF THE SOUTHEASTERN FORESTS: IMPACTS ON RESOURCE AVAILABILITY, SPECIES DIVERSITY AND PRODUCTIVITY** -- Shibu Jose, School of Natural Resources, University of Missouri, Columbia, MO, USA

70

Session #70: The Role of Innovation and Partnership in the USDA NRCS Approach to Landscape Conservation in the Mississippi River and Gulf of Mexico Basins

[Salon K]

Moderator: Martin Lowenfish, USDA-NRCS, Washington, DC

10:30 Session Overview

10:40 **INNOVATIVE WAYS OF CONSERVATION -- Terrell Erickson**; USDA, Natural Resources Conservation Service, Washington, DC, USA

11:00 **UTILIZING THE MRBI, THE ARKANSAS DISCOVERY FARM PROGRAM AND PARTNERSHIPS TO PROMOTE SOIL AND WATER CONSERVATOIN IN ARKANSAS -- M. B. Daniels[1]**, Mike Sullivan[2], Debbie Moreland[3], Andrew Sharpley[1], Michele Reba[4], Yushun Chen[5], Alice Weeks[2] and Dianne Schenkler[2]; [1]University of Arkansas, AR, USA; [2]USDA-NRCS, Little Rock, AR, USA; [3]Arkansas Association of Conservation Districts, Little Rock, AR, USA; [4]Arkansas State University, AK, USA; [5]University of Arkansas at Pine Bluff, AK, USA

11:20 **PUBLIC-PRIVATE CONSERVATION IN LOUISIANA: NATURAL RESOURCES CONSERVATION SERVICE AND THE NATURE CONSERVANCY -- James F. Bergan[1]**, and Scott Edwards[2]; [1]The Nature Conservancy, Baton Rouge, LA, USA; [2]Natural Resources Conservation Service, Abbeville, LA, USA

11:40 **THE WORKING LANDS FOR WILDLIFE PARTNERSHIP – A NEW PARADIGM IN CONSERVATION -- Galon Hall**; USDA-Natural Resources Conservation Service, Washington, DC, USA

Thursday, July 31, 2014 | 1:30pm – 3:00pm

71

Session #71: Key Drivers of the Mississippi River

[Salon B]

Moderator: A. Carol Parsons Richards, Louisiana Coastal Protection & Restoration Authority, Baton Rouge, LA

1:30 Session Overview

1:40 **KEY CONTROLS ON SEDIMENT BUDGETING IN THE MISSISSIPPI RIVER FROM SOURCE TO SINK -- Mead A. Allison**[1,2]; [1]*The Water Institute of the Gulf, Baton Rouge, LA, USA;* [2]Tulane University, New Orleans, LA, USA

2:00 **INFLUENCE OF THE MAJOR DRAINAGES TO THE MISSISSIPPI RIVER AND IMPLICATIONS FOR SYSTEM LEVEL MANAGEMENT -- Brian M. Vosburg**; Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA, USA

2:20 **DRIVEN INTO A CORNER: HOW THE MISSISSIPPI'S PAST WILL DEFINE ITS FUTURE** -- **John O. Anfinson**; National Park Service, St. Paul, MN, USA

2:40 **AN OVERVIEW OF 40 YEARS OF PROTECTION AND RESTORATION ON THE MISSISSIPPI RIVER MAINSTEM -- Gretchen Benjamin**[1], Jack Killgore[2], Angeline Rodgers[3]; [1]The Nature Conservancy, La Crosse, WI, USA; [2] U.S. Army Corps of Engineers, Vicksburg, MS, USA; [3]U.S. Fish and Wildlife Service, Vicksburg, MS, USA

72

Session #72: Lake Pontchartrain Basin Restoration Challenges and Successes

[Salon C]

Moderator: Gregory Miller, USACE - New Orleans District, New Orleans , LA

1:30 Session Overview

1:40 **BIWEEKLY COASTAL MONITORING USING HYDROCOAST MAPS IN THE PONTCHARTRAIN BASIN IN SOUTHEAST LOUISIANA --** John Lopez, **Paul Connor**, Theryn Henkel, Andy Baker, Eva Hillmann, and Andreas Moshogianis; Lake Pontchartrain Basin Foundation (LPBF), New Orleans, LA, USA

2:00 **USE OF APPLIED SCIENCE FOR COASTAL RESTRATION IN THE PONTCHARTRAIN BASIN OF SOUTHEAST LOUISIANA --** John Lopez and **Theryn Henkel**; Lake Pontchartrain Basin Foundation, New Orleans, LA, USA

2:20 **PUBLIC INVOLVEMENT IN PONTCHARTRAIN RESTORATION -- Amanda R. Moore**; National Wildlife Federation, New Orleans, LA, USA

2:40 **CITY OF NEW ORLEANS COASTAL RESTORATION EFFORTS – Charles Allen**; City of New Orleans, New Orleans, LA USA

73

Session #73: Governance and Management Considerations in Ecosystem Restoration and Recovery

[Salon D]

Moderator: Edwin Theriot, The-Riot and Associates, New Orleans, LA

1:30 Session Overview

1:40 **THE ROLE OF PALEOECOLOGY IN PLANNING FOR FUTURE MANAGEMENT SCENARIOS: EXAMPLES FROM THE GREATER EVERGLADES, FLORIDA -- G.L. Wingard**[1], C.B. Bernhardt[1], A. Wachnicka[2], and B.L. Stackhouse[1]; [1] U.S. Geological Survey, Reston, VA, USA; [2] Florida International University, Miami, FL, USA

2:00 **OVERCOMING BARRIERS TO WETLAND RESTORATION – AN INTERNATIONAL PERSPECTIVE -- Nigel Pontee**[1] and Guerry Holm[2]; [1]CH2M HILL, Swindon, UK; [2]CH2M HILL, Baton Rouge, USA

2:20 **THE COUNTING CHALLENGE: BMPS IN THE CHESAPEAKE BAY WATERSHED Jeremy C. Hanson**; Chesapeake Research Consortium, Annapolis, MD, USA

2:40 **THE WATER INSTITUTE OF THE GULF INNOVATION PROGRAM -- F. Ryan Clark** and Clinton S. Willson; The Water Institute of the Gulf, Baton Rouge, LA, USA

74

Session #74: Words Matter: Using Communications to Improve Restoration Efforts

[Salon E]

Moderator: Rebeca Bell, Bluestem Communications, Chicago, IL

1:30 Session Overview

1:40 – 3:00 **PANELIST: Rebeca Bell**[1], Jennifer Browning[2]; [1]Bluestem Communications, Chicago, IL, USA; [2]Bluestem Communications, Chicago, IL, USA

Restoring our natural areas requires people to make specific changes in their behavior. We must use communication techniques to reach target audiences with specific values-based messages. This session will show how communication strategies can make or break efforts to change behaviors and promote sustainable decision-making. We will demonstrate how organizations of all sizes can build messages, make public education and outreach efforts more effective, and strategically integrate communications into their program and restoration work to achieve their environmental goals.

Thursday, July 31, 2014 | 1:30pm – 3:00pm

75

Session #75: Restoration of Wetland Plant Communities

[Salon F]

Moderator: Steve Crooks, ESA, San Francisco, CA

1:30 Session Overview

1:40 **GETTING TO THE ROOTS OF SUCCESSFUL COASTAL BALDCYPRESS RESTORATION -- J. L. Whitbeck**; Jean Lafitte National Historical Park and Preserve, New Orleans, LA, USA

2:00 **HOW DO RESTORATION SITE CHARACTERISTICS, PLANT CAGING, AND PARENTAL SOURCE AFFECT NATIVE PACIFIC CORDGRASS ESTABLISHMENT? -- W. J. Thornton**[1] and K.E. Boyer; [1]Olofson Environmental Inc., State Coastal Conservancy San Francisco Estuary Invasive Spartina Project, Oakland, CA, USA

2:20 **ERIE MARSH PRESERVE COASTAL WETLAND RESTORATION -- Christopher A. May**; The Nature Conservancy, Lansing, MI, USA

2:40 **ASSISTED COLONIZATION OF COASTAL COMMUNITIES: RESULTS OF A FUTURISTIC TRANSPLANT GARDEN EXPERIMENT -- Loretta L. Battaglia**; Southern Illinois University, Department of Plant Biology, Carbondale, IL , USA

76

Session #76: The Practical Application of Ecosystem Restoration – Learning What to Replicate and What to Avoid

[Salon G]

Moderator: W. Britt Paul, USDA-Natural Resources Conservation Service, Alexandria, LA

1:30 Session Overview

1:40 **CWPPRA: PROGRAMMATIC LESSONS LEARNED FROM 23 YEARS OF COASTAL RESTORATION** -- **Kevin J. Roy**[1], Ron G. Boustany[2]; [1]U.S. Fish and Wildlife Service, Lafayette, LA, USA; [2]Natural Resources Conservation Service, Lafayette, LA, USA

2:00 **LESSONS LEARNED ON COASTAL RESTORATION PROJECTS -- Kenneth Bahlinger**; Coastal Protection and Restoration Authority, Baton Rouge, LA, USA

2:20 **RESTORATION OF AN IMPORTANT COASTAL SEABIRD HABITAT IN LOUISIANA – THE RACCOON ISLAND PROJECT -- Loland J. Broussard** and Ron Boustany; USDA - Natural Resources Conservation Service, Lafayette, LA, USA

2:40 **COASTAL LOUISIANA RESTORATION PROJECT LESSONS LEARNED – 1990-2013 -- Darryl R. Clark** and Jeffrey D. Weller; U.S. Fish and Wildlife Service, Lafayette, LA, USA

77

Session #77: Hydrologic and Vegetative Restoration of Urban Affected Parks: Approaches and Outcomes

[Salon H]

Moderator: Jere Boudell, Clayton State University, Morrow, GA

1:30 Session Overview

1:40 **FRESHWATER RESTORATION OF TIDAL SWAMPS: LESSONS FROM REMEDIATION DURING THE DEEPWATER HORIZON INCIDENT -- Beth Middleton**; National Wetlands Research Center, Lafayette, LA

2:00 **DOES *WHERE* MATTER MORE THAN *HOW*?: SPATIAL CONTEXT ALTERS THE EFFICACY OF URBAN STREAM RESTORATION FOR BIODIVERSITY RECOVERY --** Christopher M. Swan[1], **Bryan L. Brown**[2]; [1]Dept. of Geography and Environmental Systems, University of Maryland, Baltimore County, Baltimore, MD, USA; [2]Dept. of Biological Sciences, Virginia Tech, Blacksburg, VA, USA

2:20 **URBAN STREAM RESTORATION IN THE GEORGIA PIEDMONT: POLICY, PRACTICE, AND NOVEL ECOSYSTEMS -- Jere A. Boudell**[1], Japhia M. Jacobo[2]; [1]Department of Natural Sciences, Clayton State University, Morrow, GA, USA; [2]Department of Biology, University of Alabama at Birmingham, Birmingham, AL, USA

2:40 **CHALLENGES AND OPPORTUNITIES TO MANAGING AN URBAN NATURAL AREA: PERSPECTIVES FROM THE UNIVERSITY OF WISCONSIN-MADISON ARBORETUM -- Brad M. Herrick** and Michael J. Hansen; University of Wisconsin-Madison Arboretum, Madison WI, USA

78

Session #78: International Restoration Efforts

[Salon I]

Moderator: Patrick Pitts, U.S. Fish and Wildlife Service, Vero Beach, FL

1:30 Session Overview

1:40 **BIODIVERSITY RESTORATION IN INTENSIVE RICE FIELDS IN JAPAN -- Y. Natuhara**; University of Nagoya, Nagoya, Japan

2:00 **NOVEL ECOSYSTEM MANAGEMENT STRATEGIES IN BORNEO -- Donald D. Rayome**[1], Stephen D. Murphy[1], James A. Harris[2], Rebecca Rooney[1], and Mary Louise McAllister[1]; [1]University of Waterloo, Waterloo, ON, Canada; [2]Cranfield University, Cranfield, Bedfordshire, United Kingdom

2:20 **ASSESSING THE CURRENT CONDITION OF DAMAGED ECOSYSTEM – CASE STUDY FOR UMM NEGGA SITE IN THE STATE OF KUWAIT -- Meshal Abdullah**[1], Rusty Feagin[1], Layla Musawi[2] and Steven Whisenant[1]; [1]A&M University, College Station, TX, USA; [2]Kuwait Foundation for the Advancement of Science KFAS, Kuwait City, Kuwait

2:40 **EVALUATION OF PASTURE RESTORATION TECHNIQUES ON DEGRADED BARE SURFACES IN THE RANGELANDS OF UGANDA -- S. Mugerwa**; National Agricultural Research Organization: National Livestock Resources Research Institute, Uganda

Thursday, July 31, 2014 | 1:30pm – 3:00pm

79

Session #79: Reef Restoration

[Salon J]

Moderator: Jason Shackelford, SWCA Environmental Consultants, Baton Rouge, LA

1:30 Session Overview

1:40 **EVALUATING SUCCESS ON RESTORED OYSTER REEF SANCTUARIES IN THE CHESAPEAKE BAY -- Susan L. Conner[1],** Rom Lipcius[2], Stephanie Westby[3]; [1]U.S. Army Corps of Engineers-Norfolk District, Norfolk, VA, USA; [2]Virginia Institute of Marine Science, Gloucester, VA, USA; [3]National Oceanic and Atmospheric Administration, Annapolis, MD, USA

2:00 **OYSTER REEF RESTORATION IN AREAS WITH SIGNIFICANT BOATING ACTIVITY -- Linda Walters**[1], Paul Sacks[1], Jody Palmer[2], Stephanie Garvis[1] and Kirk Fusco[2]; [1]University of Central Florida, Orlando, FL, USA; [2]Brevard Zoo, Melbourne, FL, USA

2:20 **22 YEARS OF WORLDWIDE REEF BALL COASTAL RESTORATION -- Jim McFarlane**; Reef Ball Foundation, Gainesville, FL, USA

2:40 **REBUILDING CORAL REEFS THROUGH THE GARDENING CONCEPT: ACTIVE REEF RESTORATION MAY LEAD TO SUSTAINABLE REEFS -- Baruch Rinkevich**; National Institute of Oceanography, Haifa, Israel

80

Session #80: Importance and Role of Groundwater in Restoration

[Salon K]

Moderator: Adrienne Mason, Pine River Watershed Initiative Network, Ontario, Canada

1:30 Session Overview

1:40 **ITERATIVE PLANNING OF ECOLOGICAL RESTORATION AND ITS INCORPORATION INTO SOIL AND GROUNDWATER REMEDIATION -- Monica LaSelva[1]**, Karina J. Tipton[2], Adam Sherman[3] and Stephen Kessel[4]; [1]Brown and Caldwell, Cherry Hill NJ, USA; [2]Brown and Caldwell, Upper Saddle River NJ, USA; [3]Brown and Caldwell, Albany NY, USA; [4]Brown and Caldwell, Upper Saddle River NJ, USA

2:00 **INNOVATIVE WATER SOLUTIONS AND RESTORATION USING THE ENVISION™ SUSTAINABLE INFRASTRUCTURE RATING SYSTEM -- Dan Billman** and Meg O'Mullane; HDR, Anchorage, AK, USA

2:20 **LIFE TO AD(D)MIRE; MIRERESTORATIONS IN SWEDEN -- L.Tenning[1]**, A. Lundgren[2], F. Lundin[3], J. Rova[4], S. Lamme[5], K. Lindström[6] and T. Hansson[7]; [1]County administrative board of Jämtland, Sweden; [2]County administrative board of Östergötland, Sweden; [3]County administrative board of Dalarna, Sweden; [4]County administrative board of Jönköping, Sweden; [5]County administrative board of Kronoberg, Sweden; [6]County administrative board of Västernorrland, Sweden; [7]County administrative board of Skåne, Sweden

2:40 **MANAGING SALINITY AND SOIL MOISTURE ALONG REGULATED RIVERS: APPLIED RESEARCH TO ENHANCE RESTORATION SUCCESS -- Matthew R. Grabau[1]**, Michael A. Milczarek[1], Lindsey Hovland[1] Ashlee Rudolph[2], and Barbara Raulston[2]; [1]GeoSystems Analysis, Inc., Tucson, AZ, USA; [2]US Department of Interior, Bureau of Reclamation, Boulder City, NV, USA

Thursday, July 31, 2014 | 3:30pm – 5:00pm

81

Session #81: Using the Mississippi River for Large Scale Ecosystem Restoration: Innovations in Land Building

[Salon B]

Moderator: Cynthia Duet, Audubon Louisiana, Baton Rouge, LA

3:30 Session Overview

3:40 **ENGINEERING AND DESIGN MID-BARATARIA SEDIMENT DIVERSION PROJECT -- T. Neil McLellan[1]**, Micaela Coner[2], Bob Beduhnl[1], and Kodi Collins[2]; [1]HDR Engineering Inc., Lafayette, LA, USA; [2]Coastal Protection and Restoration Authority, Baton Rouge, LA, USA

4:00 **WHAT'S NEXT FOR LOUISIANA DREDGED BARRIER ISLANDS? -- William H. Hanson**; Great Lakes Dredge & Dock Company, LLC, Oak Brook, IL, USA

4:20 **SUSTAINABLY BUILDING WETLANDS WITH RIVER SEDIMENT: THE MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE -- Paul Tschirky**; Moffatt & Nichol, Baton Rouge, LA, USA

4:40 **ANALYSIS AND LESSONS LEARNED FROM MARDI GRAS PASS (MGP) WITHIN THE BOHEMIA SPILLWAY, SE LOUISIANA -- John Lopez** , Theryn Henkel, Andy Baker, Eva Hillmann, and Andreas Moshogianis; Lake Pontchartrain Basin Foundation (LPBF), New Orleans, LA, USA

82

Session #82: Community Approaches to Restoration

[Salon C]

Moderator: Nick Aumen, US Geological Survey, Davie, FL

3:30 Session Overview

3:40 **DISCOVERY HILL OUTDOOR LEARNING CENTER: A PUBLIC DEMONSTRATION GARDEN USING RESTORATION PRINCIPLES -- Stan Wilson[1]**, Judy Walther[2]; [1]Environmental Survey Consulting, Austin, TX, USA; [2]Society for Ecological Restoration, Washington, D.C., USA; [3]Native Plant Society of Texas, Austin, TX, USA

4:00 **LIVING ON THE WATER'S EDGE - A NEIGHBORHOOD APPROACH TO STORMWATER MANAGEMENT -- Robert D. Wright**; Sarasota County Water Resources, Sarasota, FL, USA

4:20 **COMMUNITY REDEVELOPMENT OF SOCIAL ECOLOGICAL SYSTEMS TO ENHANCE COMMUNITY RESILIENCE USING ECOLOGICAL RESTORATION -- Arlene Hopkins;** Arlene Hopkins & Associates, Santa Monica, CA, USA

4:40 **RESTORING AN URBAN ECOSYSTEM: THE URBAN WATERS FEDERAL PARTNERSHIP-PHILADELPHIA AND THE URBAN DELAWARE RIVER -- Simeon P Hahn[1]**, Lisa Pelstring[2], Michael Leff[3] and Jenny Greenberg[4]; [1]National Oceanic and Atmospheric Administration, Philadelphia, PA, USA; [2]Department of Interior, Washington, DC, USA; [3]USDA Forest Service/Davey Institute Philadelphia, PA, USA; [4]Delaware River Waterfront Corporation, Philadelphia, PA, USA

83

Session #83: Restoring Water Quality in the Florida's Everglades and Florida Keys

[Salon D]

Moderator: Henry Briceño, Florida International University, Miami, FL

3:30 Session Overview

3:40 **SAV Communities Of Western Biscayne Bay, Miami, Florida, USA: Human And Natural Drivers Of Seagrass And Macroalgae Abundance and Distribution -- D. Lirman[1]**, T. Thyberg[1], R. Santos[1], S. Schopmeyer[1], C. Drury[1], L. Collado-Vides[2], S. Bellmund[3], J. Serafy[1,4]; [1]University of Miami, Miami, FL, USA; [2]Florida International University, Miami, FL, USA; [3]Biscayne National Park, Homestead, FL, USA; [4]NOAA/NMFS/ SEFSC, Miami, FL, USA

4:00 **IMPROVEMENTS TO FATHOM, A SALINITY AND WATER QUALITY MODEL FOR FLORIDA BAY – LESSONS LEARNED FOR EVERGADES RESTORATION -- F. Marshall[1]**, B.J. Cosby[2], W. Nuttle[3], S. Kemp[4], and E. Stabenau[5]; [1]Cetacean Logic Foundation, New Smyrna Beach, FL, USA; [2]Centre for Ecology and Hydrology, Bangor, Gwynedd, UK; [3]Eco-hydrology, Ottawa, ON, Canada; [4]U.S. Geological Survey, Corvallis, OR, USA; [5]Everglades National Park, Homestead, FL, USA

4:20 **APPLICATION OF A SALINITY PERFORMANCE MEASURE FOR EVERGLADES RESTORATION PLANNING -- Patrick A. Pitts[1]**, Susan Kemp[2], David Rudnick[3], Frank Marshall[4], and Lynn Wingard[5]; [1]U.S. Fish and Wildlife Service, Vero Beach, Florida, USA; [2]U.S. Geological Survey, Corvallis, Oregon, USA; [3]National Park Service, Homestead, Florida, USA; [4]Cetacean Logic Foundation, New Smyrna Beach, Florida, USA; [5]U.S. Geological Survey, Reston, Virginia, USA

4:40 **ASSESSING WATER QUALITY CHANGES DUE TO RESTORATION ALTERNATIVES: COASTA EVERGLADES, FLORIDA -- H. Briceno[1]**, J. N. Boyer[2]; [1]Southeast Environmental Research Center, Florida International University, Miami, FL, USA; [2]Center for the Environment, Plymouth State University, Plymouth, NH, USA

84

Session #84: Indicators of Functional Equivalency for Assessing Restoration Success

[Salon E]

Moderator: Matthew Harwell, USEPA - Gulf Ecology Division, Gulf Breeze, FL

3:30 Session Overview

3:40 **ASSESSING ECOSYSTEM FUNCTIONAL EQUIVALENCE BETWEEN CONSTUCTED AND NATURAL OYSTER REEFS WITH STABLE ISOTOPES -- Kevin S. Dillon** and Mark S. Peterson; University of Southern Mississippi, Gulf Coast Research Lab, Ocean Springs, MS USA

4:00 **SEAGRASS RESTORATION AND ECOSYSTEM SERVICES: CHALLENGES OF MEASURING THE NECESSARY ECOSYSTEM FUNCTIONS -- Susan S. Bell**; Department of Integrative Biology, University of South Florida, Tampa, FL USA

4:20 **SURFACE ELEVATION CHANGE AND VERTICAL ACCRETION IN CREATED MANGROVES IN TAMPA BAY, FLORIDA, USA -- Nicole Cormier[1]**, Michael J. Osland[1], Ken W. Krauss[1], Camille L. Stagg[1], Darrin D. Dantin[2], Andrew S. From[3], Marc J. Russell[2] and Alejandro E. Almario[2]; [1]U.S. Geological Survey, National Wetlands Research Center, Lafayette, LA, USA; [2]U.S. Environmental Protection Agency, Gulf Ecology Division, Gulf Breeze, FL, USA; [3]Five Rivers Services, LLC, Lafayette, LA, USA

4:40 **MEASURING FUNCTIONAL EQUIVALENCY IN RESTORED TIDAL WETLANDS: ARE WE THERE YET? -- John C. Callaway**; University of San Francisco, San Francisco, CA, USA

Thursday, July 31, 2014 | 3:30pm – 5:00pm

85

Session #85: Innovative Approaches, Methods, and Techniques

[Salon F]

Moderator: Chuck Perrodin, CPRA of Louisiana, Baton Rouge, LA

3:30 Session Overview

3:40 **RESTORATION REQUIRES RETROSPECTION: PALEOECOLOGICAL APPLICATIONS SUPPORT MANAGEMENT OF THE LAURENTIAN GREAT LAKES -- Euan D. Reavie[1]**, Adam J. Heathcote[2], Victoria L. Shaw Chraïbi[3], Amy R. Kireta[4], Lisa E. Allinger[1], Richard P. Barbiero[5], Glenn J. Warren[6]; [1]University of Minnesota Duluth, Duluth, MN, USA; [2]Université du Québec à Montréal, Montréal, QC, Canada; [3]University of Nebraska-Lincoln, Lincoln, NE, USA; [4]University of Maine, Orono, ME, USA; [5]CSC and Loyola University Chicago, Chicago, IL, USA; [6]USEPA Great Lakes National Program Office, Chicago, IL, USA

4:00 **IMPLICATIONS OF ORGANIC SOIL COMBUSTION FOR FIRE MANAGEMENT IN WETLANDS -- David A. Kaplan[1]**, Casey A. Schmidt[2], Daniel L. McLaughlin[3], and Adam C. Watts[1]; [1]Department of Environmental Engineering Sciences, University of Florida, Gainesville, FL, USA; [2]Division of Hydrologic Sciences, Desert Research Institute, Reno, NV, USA; [3]School of Forest Resources and Conservation, University of Florida, Gainesville, FL, USA; [4]Division of Atmospheric Sciences, Desert Research Institute, Reno, NV, USA

4:20 **CREATING INTERTIDAL SUBMERGED AQUATIC VEGETATION HABITAT FROM FALLOW FARMLAND -- Michael A.G. Burton, CEP[1]**, Ryan Horstman[2]; [1]Stantec Consulting Services Inc., Sarasota, FL, USA; [2]Stantec Consulting Services Inc., Tampa, FL, USA

4:40 **APPLICATION OF A HABITAT CONSERVATION PLAN TO LARGE-SCALE ECOSYSTEM RESTORATION AND WATER SUPPLY RELIABILITY IN CALIFORNIA: THE BAY DELTA CONSERVATION PLAN** -- David B. Zippin[1], **Jennifer Pierre[2]**, Marin Greenwood[2], Ellen Berryman[2], Carl Jensen[2], and Lenny Grimaldo[1]; [1]ICF International, San Francisco, CA, USA; [2]ICF International, Sacramento, CA, USA

86

Session #86: Stream Restoration Strategies and Considerations

[Salon G]

Moderator: Kelly Mattfield, Brown and Caldwell, Milwaukee, WI

3:30 Session Overview

3:40 **THE IMPACTS OF STREAM RESTORATION ON THE SOILS AND VEGETATION OF RIPARIAN ZONES IN CENTRAL NORTH CAROLINA, U.S.A.** -- Megan Malone and **Theodore Shear**; Restoration Ecology Program, Department of Forestry and Environmental Resources, North Carolina State University, Raleigh, North Carolina, USA

4:00 **A FIVE YEAR STUDY OF CONTAINER AND BAREROOT TREE SURVIVAL ON A STREAM RESTORATION PROJECT IN CENTRAL NORTH CAROLINA -- Karen R. Hall**, Jean Spooner, and Jamie Blackwell; Biological and Agricultural Engineering Department, NC State University, Raleigh, NC, USA

4:20 **ASSESSING THE IMPACT OF CULVERT DESIGN ON THREE ECOSYSTEM FUNCTIONS IN NORTHERN WISCONSIN STREAMS -- James Olson[1]**, Amy Marcarelli[1], Sue Eggert[2], Anne Timm[2], Randy Kolka[2]; [1]Michigan Technological University, Houghton, MI, USA; [2]USDA Forest Service, Grand Rapids, MN, USA

4:40 **SCHOHARIE COUNTY STREAM RESTORATION PROJECT: RESTORING NATURAL STREAM FUNCTION -- Bryan Dick[1]**, Karen Appell[2], Richard Hey[3]; [1]Lotic Solutions LLC, Graham, NC, USA; [2]AECOM, New York, NY, USA; [3]Streamwise Ltd, Norwich, United Kingdom

87

Session #87: Ecosystem Assessment and Restoration: Current Principles and Practices, Innovative Tools and Emerging Trends

[Salon H]

Moderator: Sarah J. Miller, U.S. Army Engineer Research and Development Center (ERDC), Vicksburg, MS

3:30 Session Overview

3:40 **REFERENCE CONCEPTS IN ECOSYSTEM RESTORATION AND ENVIRONMENTAL BENEFITS ANALYSIS (EBA): PRINCIPLES AND PRACTICES** -- Bruce A. Pruitt[1], **Sarah J. Miller[2]**, Chuck H. Theiling[3] and J. Craig Fischenich[4]; [1]U.S. Army Engineer Research and Development Center (ERDC), Athens, GA, USA; [2] U.S. Army Engineer Research and Development Center (ERDC), Vicksburg, MS, USA; [3]U.S. Army Corps of Engineers, Rock Island District, Rock Island, IL, USA; [4] U.S. Army Engineer Research and Development Center (ERDC), Vicksburg, MS, USA

4:00 **WHAT IS AN APPRORIATE REFERENCE FRAMEWORK FOR ECOLOGICAL ASSESSMENT, RESTORATION, AND MONITORING? -- R.D. Rheinhardt**; East Carolina University, Greenville, NC, USA

4:20 **MOBILE BAY NATIONAL ESTUARY PROGRAM THREE MILE CREEK WATERSHED MANAGEMENT PLAN -- Tom Herder[1]**, Jerri Daniels[2]; [1]Mobile Bay National Estuary Program, Mobile, AL, USA [2]Dewberry, Fairfax, VA, USA

4:40 **TOPOGRAPHIC DIVERSITY INDEX FOR FLOODPLAIN FOREST RESTORATION BENEFIT ASSESSMENT AT HURON ISLAND, UPPER MISSISSIPPI RIVER -- Charles Theiling**, Mike Siadak, Lucie Sawyer, Nathan Richards, and Jon Schultz; U.S. Army Corps of Engineers, Rock Island District, Rock Island, IL, USA

88

Session #88: Gulf Coast Mangrove Restoration: A Regional Perspective for a Changing World

[Salon I]

Moderator: Carey Perry, Coalition to Restore Coastal Louisiana, Baton Rouge, LA

3:30 Session Overview

3:40 **MANGROVE RESTORATION AND MIGRATION IN A CHANGING CLIMATE: CLIMATIC DRIVERS AND SHIFTING ECOTONES -- Michael J. Osland** and Richard H. Day; U.S. Geological Survey, Lafayette, LA, USA

4:00 **THE ECOLOGICAL BENEFITS AND POTENTIAL RISKS OF MANGROVE RESTORATION WITHIN THE TEXAS SALT MARSH-MANGROVE ECOTONE -- Anna R. Armitage[1]**, Steven C. Pennings[2], Patrick Louchouarn[1]; [1]Texas A&M University at Galveston, Galveston, TX, USA; [2]University of Houston, Houston, TX, USA

4:20 **ENVIRONMENTAL CONSTRAINTS ON THE RESTORATION SUCCESS OF BLACK MANGROVE HABITATS IN THE NORTHERN GULF OF MEXICO** -- Mark W. Hester, Lauren Alleman, Christine N. Pickens, Laura C. Hundy, and **Jonathan M. Willis**; University of Louisiana at Lafayette, Lafayette, LA, USA

4:40 **ECOLOGICAL MANGROVE RESTORATION: HYDROLOGIC RESTORATION IS CRITICAL, PLANTING MANGROVE SEEDLINGS IS NOT -- Roy R. "Robin" Lewis III**; Coastal Resources Group, Inc., Salt Springs, FL, USA

Thursday, July 31, 2014 | 3:30pm – 5:00pm			
89	**90**		
Session #89: Land Conservation in the Age of Shrinking Budgets **[Salon J]** **Moderator: Juan Moya**, Freese & Nichols, Inc., Austin, TX 3:30 Session Overview 3:40 **TARGETED APPROACHES FOR PRIVATE LANDS CONSERVATION -- Michael Sullivan**; USDA Natural Resources Conservation Service, Little Rock, AR, USA 4:00 **PROTECTING PANTHER HABITAT IN FLORIDA -- Garrett Wallace**; Alico Inc., Fort Myers, FL, USA 4:20 **TROPHIC CASCADES, HABITAT FRAGMENTATION AND CLIMATE CHANGE - THE NEED TO RECONNECT, REWILD AND RESTORE TERRESTRIAL LANDSCAPES ACROSS NORTH AMERICA -- Keith Bowers**; Biohabitats, Inc, Baltimore, MD, USA 4:40 **ACCOUNTING FOR PRIVATE BENEFITS IN TARGETING ECOLOGICAL RESTORATION -- Maksym Polyakov** and David Pannell; University of Western Australia, Crawley, WA, Australia	**Session #90: Coastal Modeling and Mapping** **[Salon K]** **Moderator: Michelle Orr**, ESA, San Francisco, CA 3:30 Session Overview 3:40 **GEDDES BROOK AND NINEMILE CREEK CHANNEL AND WETLAND RESTORATION AT ONONDAGA LAKE** -- Ryan C. Davis[1], **Tracy Drury[2]**, John Gaffney[2] and Ray D'Hollander[3]; [1]Anchor QEA, Glens Falls, NY, USA; [2]Anchor QEA, Bellingham, WA, USA; [3]Parsons, Syracuse, NY, USA 4:00 **DEVELOPMENT AND ADAPTATION OF THE CASM TO EVALUATE FOOD WEB DYNAMICS AND SPECIES RESPONSES IN BARATARIA BASIN -- Kate Shepard Watkins**, Shaye Sable, Erol Karadogan, and Chris Wallen; Dynamic Solutions, LLC, Baton Rouge, LA, USA 4:20 **MODELING SPATIO-TEMPORAL RESPONSES OF WADING BIRD INDICATOR SPECIES ACROSS RESOURCE GRADIENTS FOR WETLAND RESTORATION -- James M. Beerens[1]**, Erik Noonburg[1], Dale E. Gawlik[1], Doug Donalson[2]; [1]Florida Atlantic University, Boca Raton, FL, USA; [2] US Army Corps of Engineers, Jacksonville, FL, USA 4:40 **DISCUSSION**		

Notes

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