

# Wednesday, June 2, 2021

9:00 - 10:00

## Exhibit Hall

10:00 - 10:50

## Opening Plenary Session

Sponsored by The Coalition to Restore Coastal Louisiana

Concurrent Session - 1

11:00 - 11:50

Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8
<b>2023 Coastal Master Plan Part 1: Process and Framework</b>	<b>Building a Workforce Pipeline for Coastal Restoration</b>	<b>Katrina 15: Road to Restoration in the Mississippi River Gulf Outlet MRGO Ecosystem</b>	<b>Where Culture and Tradition Meet Research: The United Houma Nation's View of Meaningful Research</b>	<b>RESTORE Lowermost Mississippi River Management Program LMRMP I: Modeling</b>	<b>Putting the Pieces Back Together: Restoring for Deepwater Horizon Impacts in Coastal Louisiana</b>	<b>Louisiana Watershed Initiative, Data and Modeling</b>	<b>Evolution of Marsh Creation Design and Construction</b>
<b>Ashley Cobb</b> CPRA	<b>Jasmine Brown</b> GNO Inc.	<b>Amanda Moore</b> National Wildlife Federation	<b>Lanor Curole</b> United Houma Nation	<b>Honora Buras</b> CPRA	<b>Mel Landry</b> NOAA Restoration Center	<b>Alex Carter</b> Louisiana Office of Community Development	<b>Russ Joffrion</b> CPRA
<b>Stuart Brown</b> CPRA  2023 Coastal Master Plan Framework - Uncertainty and Adaptive Management	<b>Robert Habans</b> The Data Center <b>Tina Tinney</b> Nunez Community College <b>Laci Melancon</b> Louisiana Coastal Technical Assistance Center <b>Taylor Watts</b> Louisiana Workforce Commission	<b>Arthur Johnson</b> Lower 9th Ward Center for Sustainable Engagement and Development CSED <b>Micaela Coner</b> CPRA <b>Guy McInnis</b> St. Bernard Parish Government <b>John Lopez</b> Delta Science LLC	<b>Mathew Bethel</b> Louisiana Sea Grant <b>Shanondora Billiot</b> University of Illinois <b>Brandon Keller</b> United Houma Nation  This panel will focus on the experiences from a tribal perspective in being a research partner for meaningful research efforts for communities. The panel will share the experiences from previous and current projects and their unique perspective as either community members or researchers or in some instances both.	<b>Carol Parsons Richards</b> CPRA  RESTORE Lowermost Mississippi River Management Program: Overview and Status	<b>Brian Lezina</b> CPRA <b>Doug Jacobson</b> US EPA Region 6 <b>Courtney Schupp</b> NOAA Restoration Center  This panel will focus on updates on progress in restoration for injuries associated with the Deepwater Horizon oil spill in Louisiana and information on how to be engaged in the restoration planning process.	<b>Emad Habib and Ehab Meselhe</b>  Statewide H&H Modeling, PFEs update, river and rain gauge enhancements and MUSM- Part 1 public review	<b>Rudolph Simoneaux</b> CPRA  Historical Overview of Past Marsh Creation Design and Construction Efforts
<b>Catherine Fitzpatrick</b> CPRA  2023 Coastal Master Plan Framework - New Project Development	Louisiana's coastal restoration is creating a wave of new job opportunities requiring specialized workforce pipelines. However, given the novel scale and scope of many coastal projects, workforce providers, educational institutions and economic developers are seeking to clarify the labor demand of restoration. This session will explore how the State of Louisiana is working with these stakeholders to ensure workforce needs are met and economic benefits of restoration are maximized.			<b>Kazi Sadid</b> CPRA  Session combined with <b>Brendan Yuill</b>		<b>Hugh Roberts</b> LWI  Modeling in the Transition Zone	<b>Kevin Roy</b> United States Fish and Wildlife Service  Planning and Development of Marsh Creation Projects
<b>Krista Jankowski</b> CPRA  2023 Coastal Master Plan Framework – Developing Scenarios				<b>Brendan Yuill</b> The Water Institute of the Gulf  <b>Kazi Sadid</b> CPRA  Multi-model investigation of sand transport patterns through the LMR		<b>Sam Martin</b> CPRA  LWI Project Funding	<b>Thomas McLain</b> CPRA  Improvements and Innovations in Marsh Creation Design
<b>Denise Reed</b> University of New Orleans  2023 Coastal Master Plan Framework – Selecting Projects with the Planning Tool				<b>Travis Dahl</b> US Army Corps of Engineers-ERDC  Designing a Real-time Forecasting System for Nitrogen and Sediment in the Lowermost Mississippi River		<b>Pat Forbes</b> OCD  Long-term framework for regional watershed management and Round 1 RSC recommendations	<b>Venu Tammineni</b> Adaptive Management Engineering, LLC.  Improvements in Dredge Slurry and Fill Monitoring and Analysis

# Wednesday, June 2, 2021

## Lunch

Enjoy the amazing music of Sweet Crude - a local New Orleans band with a passion for the coast, music, and Louisiana French.  
Sponsored by Restore the Mississippi River Delta

## Roundtable Discussion

12:00 - 12:50

12:40 - 1:00

Concurrent Session - 2

1:00 - 1:50

# Wednesday, June 2, 2021

Wednesday, June 2, 2021								
Concurrent Session - 3  2:00 - 2:50  Sponsored by Ducks Unlimited and ConocoPhillips	Session 17	Session 18	Session 19	Session 20	Session 21	Session 22	Session 23	Session 24
	2023 Coastal Master Plan Part 3: Risk Assessment	Disaster Impacts on Public Health	Using Models to Analyze Flood Depths and Risk to Inform Design	RESTORE Lowermost Mississippi River Management Program LMRMP II: Informing Decision-Making	Constructed Marsh Terraces as a Restoration Technique: Advances in our Understanding	Monitoring, Modeling and Adaptive Management of Large-Scale Restoration Projects	Climate Change and Adaptation: Can We Walk the Walk Not Just Talk the Talk?	Louisiana Coastal Geology
	Krista Jankowski CPRA	Dr. Katie Cherry Louisiana State University	Mikaela Meyer, Carnegie Mellon University	Ioannis Georgiou The Water Institute of the Gulf	Mike Brasher Ducks Unlimited, Inc.	Mel Landry NOAA Fisheries	Pamela Jenkins University of New Orleans	Chris McLindon McLindon Geosciences, LLC
	Zach Cobell Water Institute of the Gulf  Storm Surge and Wave Model Updates for the 2023 Coastal Master Plan	Adrienne Katner Louisiana State University  Identifying and Addressing Drinking Water Challenges in Well-Reliant Communities After Natural Disasters: Lessons from a Louisiana Flood	Diana Di Leonardo The Water Institute of the Gulf  Role of Neotectonics in Mississippi River Delta Plain Evolution and Implications for Management: Update from Expert Panel Workshops	Jeffrey Danielson US Geological Survey  The USGS Coastal National Elevation Database CoNED : Integrated Topobathymetric Model for the Northern Gulf of Mexico NGOM2	Raul Osorio Mississippi State University  Marsh Terraces Assessment Using a Remote Sensing Approach and a Wave Model	Whitney Thompson APTIM  Golden Triangle Marsh Creation Project - Studying the Effects of Marsh Construction Using Delft3D	Monica Farris University of New Orleans Liz Williams Russell Foundation for Louisiana Bobbie Hill Concordia  The session provides a context for how we go forward facing the increased consequences from climate change. Through funding from the Rockefeller Foundation, UNO-CHART, Concordia, and the Foundation for Louisiana created a collaborative effort that sponsored five convenings focused on climate change and adaptation. Using the convenings' major themes, the workshop asks the participants to engage in an analysis of the major themes and how these themes might be implemented a call to action .	Elizabeth McDade Chinn-McDade Associates LLC  Geology of the Biloxi Marsh Complex: Implications for Stabilization and Restoration
	David Johnson Purdue University  2023 Coastal Master Plan - Coastal Louisiana Risk Assessment Model	Kim Mosby Louisiana State University  Frameworks of Recovery: Health Caught at the Intersection of Housing, Education, and Employment Opportunities After Hurricane Katrina	Jingya Wang Purdue University  An Efficient Model to Inform Risk-Based Levee Design Standards	Chris Massey US Army Corps of Engineers  Overview of ERDC'S Coastal Storm Modeling System, CSTORM, as Applied to the Coast of Louisiana for Computing Annual Exceedance Probabilities for Storm Water Levels and Wave Heights	Marie Mathews Tulane University  The Sedimentary Effectiveness of Marsh Terracing as a Restoration Technique in Coastal Marshes in Southeastern Louisiana	Joel Tillery Duplant Design Group, PC  Use of Remote Sensing and Geospatial Analysis to Enhance Design of the Lake Borgne Marsh Creation Increment One PO-0180 And Applicability to Future Large-Scale Marsh Creation Projects	Robert Mohollen UNO Earth and Environmental Sciences  Rates of Displacement and Lateral Continuity of the Baton Rouge Fault System segments: Evidence of Holocene Displacement near the East Orleans Land Bridge	
	Nathan Geldner Purdue University  2023 Coastal Master Plan – Impacts of Updates to Risk Assessment Modeling	Kevin Conrad Ochsner Health Systems  Deep Water Horizon Oil Spill: An Update on the Long-Term Human Health Consequences for Residents of Coastal Louisiana	Mikaela Meyer Carnegie Mellon University  Analyzing the Variability of Best-Estimate Coastal Flood Depth Return Periods in Louisiana	Chris Esposito The Water Institute of the Gulf  Dredging is a dominant geomorphic process in the LMR	Joseph French Mississippi State University  The Effect of Tropical Storm and Frontal Passage on Marsh Terrace Efficacy in Coastal Louisiana	Agnimitro Chakrabarti FTN Associates  Morphology Modeling of the West Bay Diversion Crevasse: An Analogue Model for the Mid-Barataria Sediment Diversion Outfall Evolution	David Culpepper The Culpepper Group, LLC  Synthesis of Fault Traces in Southeast Louisiana Relative to Infrastructure	
	Sam Martin CPRA  2023 Coastal Master Plan – Non-EAD Metrics for Storm Surge-based Flood Risk	Jakevia Green Institute of Women & Ethnic Studies, UNO  Caring For Those Who Care For Us: Examining Mental And Emotional Impacts Of The Covid-19 Pandemic On Essential Workers	Trung Do University of Louisiana at Lafayette  Fragility Methodology for Flood Risk and Loss Assessment Under Future Climate Projections– A Case Study In The Vermilion River Watershed	John Swartz The Water Institute of the Gulf  Reach Scale Analysis of Sediment Transport in the Lowermost Mississippi River from Dredge-Support Surveys	Madelyn McFarland Mississippi State University  An Evaluation of Avian Use of Marsh Terraces in Gulf Coastal Wetlands	Tim Carruthers The Water Institute of the Gulf  Improving Restoration Project Adaptive Management: Practical Steps	Chris McLindon McLindon Geosciences, LLC Geological assessment of the vicinity of the proposed Mid-Barataria Sediment Diversion	
3:00 - 3:50	<b>Plenary Session</b> Sponsored by Louisiana Sea Grant							
5:30 - 7:30	<b>Pop Up Receptions in Baton Rouge and New Orleans</b>							

# Thursday, June 3, 2021

## Women's Leadership Event

Sponsored by Shell

## Plenary Session

Sponsored by The Water Institute of the Gulf

## Exhibit Hall

## Lunch

## Roundtable Discussion

9:00 - 9:50

10:00 - 10:50

11:00 - 11:50

12:00 - 12:50

12:40 - 1:00

Concurrent Session - 4

1:00 - 1:50

# Thursday, June 3, 2021

Thursday, June 3, 2021								
Concurrent Session - 5  2:00 - 2:50	Session 33	Session 34	Session 35	Session 36	Session 37	Session 38	Session 39	Session 40
	Hydraulic and Channel Dynamics of the Lower Mississippi River and Atchafalaya River	Quantifying the Wider Benefits of Natural and Nature Based Features	Emerging Legal Conflicts	Mobilizing Research for the Betterment of the Future of the Gulf Coast	Nutrient Cycling from the Mississippi River to the Basins	Response of Deltaic Plain Wetlands to River Diversions: Synthesis of the State of the Science - Part 2	Regional Strategies for Climate Resilience	Insights into the Responses of Birds to Coastal Restoration & Subsidence
	Gary Brown USACE	Nigel Pontee Jacobs	Chris Dalbom Tulane University	Don Bosch Gulf Research Program	John White Louisiana State University	Angelina Freeman CPRA	Jeff Hebert HR&A Advisors	Erik Johnson National Audubon Society
	<p style="text-align: center;"><b>Gary Brown</b> USACE</p> <p>Numerical Model Analysis of Proposed Lateral Bar Dredging on Sedimentation in the Lowermost Mississippi River</p>	<p style="text-align: center;"><b>Steven Scyphers</b> Northeastern University <b>Todd M. Swannack</b> USACE <b>Justin Kozak</b> Center for Planning Excellence <b>Hilary Stevens</b> Restore America's Estuaries</p> <p>Resilience solutions involving NNBF solutions are increasingly popular on the worlds coasts. NNBF solutions are often promoted on the basis that they create a number of additional benefits in addition to decreasing flood and erosion risk. This discussion panel will help draw out what these benefits are, will illustrate how such benefits can be quantified e.g. by referring to examples where this has been done and will explore the areas where further work is needed. Key aspects to cover will be recreation, well-being, fisheries, water quality and carbon sequestration.</p>	<p style="text-align: center;"><b>Daniel Bosch</b> LSU Paul M. Hebert Law Center, Advocacy Programs</p> <p>Louisiana's 'Elephant in the Room': What Legal Remedies Would be Available Amid Failure of the Old River Control Structure</p>	<p style="text-align: center;"><b>Laura Windecker</b> The National Academies of Sciences, Engineering, and Medicine <b>Christopher Esposito</b> The Water Institute of the Gulf <b>Krista Jankowski</b> The Coastal Protection and Restoration Authority <b>Olivia Sugarman</b> Louisiana State University <b>Jill Trepanier</b> Louisiana State University</p> <p>This panel will highlight some of the \$16M investments that the Gulf Research Program has made in the State of Louisiana through grants and fellowships on research and capacity enhancements related to human dimensions, deltaic processes, and ecosystem condition and restoration</p>	<p style="text-align: center;"><b>Alan Shiller</b> University of Southern Mississippi</p> <p>Use of Stable Isotopes to Trace Mississippi River Discharge in Louisiana and Mississippi Coastal Waters</p>	<p style="text-align: center;"><b>Sibel Bargu</b> Louisiana State University</p> <p>Mississippi River Diversions and Phytoplankton Dynamics in Deltaic Gulf of Mexico Estuaries: A Review</p>	<p style="text-align: center;"><b>Adam Hosking</b> Jacobs</p> <p>Integrated Solutions for Coastal City Climate Resilience</p>	<p style="text-align: center;"><b>Kiah Williams</b> Tulane University</p> <p>Nest Success and Beach Renourishment: A Comparison of Three beach-nesting birds in Coastal Louisiana</p>
	<p style="text-align: center;"><b>Bo Wang</b> Louisiana State University</p> <p>Large River Diversion Effects on Downstream Channel Dynamics – A Case Study of the Upper Atchafalaya River</p>		<p style="text-align: center;"><b>Naomi Yoder</b> Healthy Gulf</p> <p>Researching LNG Development in Louisiana and Texas</p>		<p style="text-align: center;"><b>Bingqing Liu</b> Louisiana State University</p> <p>Multi-Decadal Environmental and Land Cover Change Impacts on Dissolved Organic Carbon Distribution in the Barataria Basin, Louisiana from In-Situ and Satellite Observations</p>	<p style="text-align: center;"><b>Kehui Xu</b> Louisiana State University</p> <p>A Review of Sediment Diversion in the Mississippi River Deltaic Plain</p>	<p style="text-align: center;"><b>Chris Levitz</b> AECOM</p> <p>Coastal Resiliency Planning: Defining and Moving Towards Resilience on the Coast</p>	<p style="text-align: center;"><b>Erik Johnson</b> National Audubon Society</p> <p>Habitat Associations of Black Rail in Coastal Louisiana Marshes – Implications for Permitting and Restoration</p>
	<p style="text-align: center;"><b>Ming Tang</b> Louisiana State University</p> <p>Channel Deformation in the Lower Atchafalaya River from 1977 to 2006</p>		<p style="text-align: center;"><b>Mark Davis</b> Tulane Institute</p> <p>The Role of Law and Policy in Harmonizing Mississippi River Nutrient Management with Coastal Restoration and Flood Protection</p>		<p style="text-align: center;"><b>Hoonshin Jung</b> The Water Institute of the Gulf</p> <p>Evaluation of Potential Impacts of Nutrients and Primary Production in the Barataria Basin in Response to Proposed the Mid-Barataria Sediment Diversion</p>	<p style="text-align: center;"><b>Sam Bentley</b> Louisiana State University</p> <p>Deltaic Morphodynamics and Stratigraphic Evolution of Middle Barataria Bay and Middle Breton Sound Regions, Louisiana, USA: Implications for River-Sediment Diversions</p>	<p style="text-align: center;"><b>Amanda Taylor</b> Geosyntec Consultants</p> <p>Coastal Watershed Planning and Climate Change</p>	<p style="text-align: center;"><b>Mead Allison</b> Tulane University</p> <p>Quantifying Land Subsidence in the Mississippi Delta Region Through In-SAR Time-Series Analysis</p>
	<p style="text-align: center;"><b>T. Mitchell Andrus</b> Royal Engineers and Consultants</p> <p>Projected Long-Term Delta Building Responses to Potential Flow Modifications at the Mississippi-Atchafalaya Bifurcation</p>		<p style="text-align: center;"><b>Megan Terrell</b> Plauch &amp; Carr LLP</p> <p>Coastal Landloss Lawsuits; future settlement potential and framework</p>		<p style="text-align: center;"><b>Peter Mates</b> Louisiana State University</p> <p>Wetland Soil Phosphorus Forms and Cycling in the Barataria Basin Within the Area of Impact of the Planned Mid-Barataria Sediment Diversion</p>	<p style="text-align: center;"><b>Navid Jafari</b> Louisiana State University</p> <p>Wetland Soil Strength with Emphasis on the Impact of Nutrients and Sediments of Case Studies in The Mississippi Delta and New England</p>	<p style="text-align: center;"><b>Rachelle Trahan</b> Rachelle Trahan Design</p> <p>Inland from the Coast: Capturing Local Knowledge Through Visualization to Increase Adaptive Capacity in Communities Facing Climate Change</p>	
	3:00 - 3:50	Poster Session						
4:00 - 5:00	Virtual Reception							

# Friday, June 4, 2021

## Exhibit Hall

### Plenary Session

Sponsored by the Coastal Restoration and Protection Authority

9:00 - 9:50

10:00 - 10:50

Concurrent Session - 6

11:00 - 11:50

# Friday, June 4, 2021

## Lunch

## Roundtable Discussion

12:00 - 12:50

12:40 - 1:00

Concurrent Session - 7

1:00 - 1:50

# June 4, 2021

Concurrent Session - 8

2:00 - 2:50

9:00 - 10:00