Wednesday, June 2, 2021

9:00 - 10:00 — **Exhibit Hall**

10:00 - 10:50 — **Opening Plenary Session**
Louisiana Governor John Bel Edwards, Chip Kline, CPRA Chairman & Kimberly Reyher, CRCL Executive Director
Sponsored by The Coalition to Restore Coastal Louisiana

11:00 - 11:50 — **Concurrent Session - 1**

Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8
2023 Coastal Master Plan Part 1: Process and Framework	**Building a Workforce Pipeline for Coastal Restoration**	**Katrina 15: Road to Restoration in the Mississippi River Gulf Outlet MRGO Ecosystem**	**Where Culture and Tradition Meet Research: The United Houma Nation's View of Meaningful Research**	**RESTORE Lowermost Mississippi River Management Program LMRMP I: Modeling**	**Putting the Pieces Back Together: Restoring for Deepwater Horizon Impacts in Coastal Louisiana**	**Louisiana Watershed Initiative, Data and Modeling**	**Evolution of Marsh Creation Design and Construction**
Ashley Cobb CPRA	**Jasmine Brown** GNO Inc.	**Amanda Moore** National Wildlife Federation	**Lanor Curole** United Houma Nation	**Honora Buras** CPRA	**Mel Landry** NOAA Restoration Center	**Alex Carter** Louisiana Office of Community Development	**Russ Joffrion** CPRA
Stuart Brown CPRA 2023 Coastal Master Plan Framework - Uncertainty and Adaptive Management	**Robert Habans** The Data Center **Tina Tinney** Nunez Community College **Laci Melancon** Louisiana Coastal Technical Assistance Center **Taylor Watts** Louisiana Workforce Commission 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.	**Arthur Johnson** Lower 9th Ward Center for Sustainable Engagement and Development CSED **Micaela Coner** CPRA **Guy McInnis** St. Bernard Parish Government **John Lopez** Delta Science LLC This panel will focus on restoration and protection progress made 15 years post-Hurricane Katrina. Panelists will discuss ecosystem conditions post-closure of the MRGO and restoration projects that will help protect communities.	**Mathew Bethel** Louisiana Sea Grant **Shanondora Billiot** University of Illinois **Brandon Keller** 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.	**Carol Parsons Richards** CPRA RESTORE Lowermost Mississippi River Management Program: Overview and Status	**Brian Lezina** CPRA **Doug Jacobson** US EPA Region 6 **Courtney Schupp** 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.	**Emad Habib** and **Ehab Meselhe** Statewide H&H Modeling, PFEs update, river and rain gauge enhancements and MUSM- Part 1 public review	**Rudolph Simoneaux** CPRA Historical Overview of Past Marsh Creation Design and Construction Efforts
Catherine Fitzpatrick CPRA 2023 Coastal Master Plan Framework - New Project Development				**Kazi Sadid** CPRA Session combined with **Brendan Yuill**		**Hugh Roberts** LWI Modeling in the Transition Zone	**Kevin Roy** United States Fish and Wildlife Service Planning and Development of Marsh Creation Projects
Krista Jankowski CPRA 2023 Coastal Master Plan Framework – Developing Scenarios				**Brendan Yuill** The Water Institute of the Gulf **Kazi Sadid** CPRA Multi-model investigation of sand transport patterns through the LMR		**Sam Martin** CPRA LWI Project Funding	**Thomas McLain** CPRA Improvements and Innovations in Marsh Creation Design
Denise Reed University of New Orleans 2023 Coastal Master Plan Framework – Selecting Projects with the Planning Tool				**Travis Dahl** US Army Corps of Engineers-ERDC Designing a Real-time Forecasting System for Nitrogen and Sediment in the Lowermost Mississippi River		**Pat Forbes** OCD Long-term framework for regional watershed management and Round 1 RSC recommendations	**Venu Tammineni** Adaptive Management Engineering, LLC. Improvements in Dredge Slurry and Fill Monitoring and Analysis

Wednesday, June 2, 2021

12:00 - 12:50

Lunch

Music by Lost Bayou Ramblers, sponsored by Restore the Mississippi River Delta. These bards of the bayous blend traditional Cajun music with rockabilly and punk rock. They won a Grammy for their 2017 album Kalenda.
Sponsored by Restore the Mississippi River Delta

12:40 - 1:00

Concurrent Session - 2

1:00 - 1:50

Session 9	Session 10	Session 11	Session 12	Session 13	Session 14	Session 15	Session 16
2023 Coastal Master Plan Part 2: Integrated Compartment Model ICM	**Sous les Paves, la Plage!: Transforming the Urban Water Management Paradigm**	**2019 Mississippi River Flood Event: Impact and Future Considerations**	**Tipping Points for Coastal Louisiana: Migration and Economic Shifts in Vulnerable Communities**	**Maintaining Culture in a Changing Environment**	**Challenges and Logistics of Implementing Large-Scale Ecosystem Restoration Projects**	**From Climate Change to Climate Crisis – What's next for Louisiana**	**Blue Carbon Markets: Mainstreaming a Funding Mechanism for Restoration**
Stuart Brown CPRA	**Ramiro Diaz** Waggonner & Ball Architecture/ Environment	**Ehab Meselhe** Tulane University	**Caressa Chester** Foundation for Louisiana	**Faye Matthews** National Wildlife Federation	**Rudolph Simoneaux** CPRA	**Denise Reed** University of New Orleans	**Rick Johnson** Entergy
Yushi Wang Water Institute 2023 Coastal Master Plan Integrated Compartment Model - Hydrology	**Joshua Lewis** Tulane Bywater Institute **Claire Anderson** Ripple Effect Water Literacy Project This panel will focus on transformations in urban water management that will be required in response to climate change—spatial, cultural, economic—and how coastal cities can learn to live with water. Original description: The slogan of the 1968 French protest movement—"Beneath the paving, there is a beach!	**Christopher Esposito** The Water Institute of the Gulf Rapid Changes to Controls on Sedimentation in a River-Dominated Marsh	**Robert Habans** The Data Center **Scott Hemmerling** The Water Institute of the Gulf **Mark Davis** Tulane University This panel will focus on the increasing importance and impacts that investments will have on community viability as coastlines change.	**Lindsey Walsworth** HNTB Corporation Preservation Potential of Louisiana's 2017 Coastal Master Plan Restoration Projects and Historic Third System Forts	**John Foret** C.H. Fenstermaker and Associates, LLC **Maury Chatellier** CPRA **Russ Joffrion** CPRA **Chuck Broussard** Weeks Marine, Inc. This panel will focus on the challenges encountered throughout all phases of restoration project implementation. Topics includes permitting, landrights, ecological criteria, oil/gas infrastructure, geotechnical design, and constructability issues.	**Camille Manning Broome** Center for Planning Excellence Adapting to Climate Change in Louisiana	**Rick Johnson** Entergy Climate Change Coastal Impact Mitigation: Entergy's Efforts to Decarbonize the Gulf South Economy and Address Wetlands Loss
Maddie Foster-Martinez University of New Orleans 2023 Coastal Master Plan Integrated Compartment Model - Wetlands, Vegetation, and Soils		**Ehab Meselhe** Tulane University Utilizing Upper Diversions in River Water Management Case Study: 2019 Mississippi Flood Event		**Earl Melancon** Louisiana Sea Grant Salinity and How Oystermen Have Traditionally Responded to its Stochastic, yet Somewhat Predictable Nature, in Managing Their Private Lease Fishery in Barataria Bay		**Charles Sutcliffe** Governor's Office: Coastal Activities Current State Efforts Towards Adaptation and Resilience	**Sarah Mack** Tierra Foundation Status and Challenges of Wetlands in Carbon Markets
Eric White CPRA 2023 Coastal Master Plan Integrated Compartment Model - Morphology				**Carolina Bourque** LDWF Current Status of oysters in Louisiana and a path for recovery		**Joni Hammons** Center for Planning Excellence Designing Tools for Governance Adaptation	**Robert Lane** Comite Resources The World's First Wetland Carbon Project
David Lindquist CPRA Habitat Suitability Models for the 2023 Coastal Master Plan		**Dr. Kelin Hu** Tulane University Modeling The Effect Of Roseau Cane Dieback On Navigation Dredging In The Mississippi River Bird's Foot Delta		**Rebecca Snedeker** Tulane University The Anthropocene in Louisiana		**Jeannette Dubinin** Center for Planning Excellence Tools for Community Adaptation	**Karly A Kyzar** Louisiana Sea Grant Legal Considerations for Blue Carbon

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** Duplantis 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 Diverson 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

Plenary Session
Colette Pichon Battle, The Gulf Coast center for Law & Policy Founder & Director
Sponsored by Louisiana Sea Grant

5:30 - 7:30

Pop Up Receptions in Baton Rouge and New Orleans

Thursday, June 3, 2021

9:00 - 9:50 — **Women's Leadership Event**
Sponsored by Shell

10:00 - 10:50 — **Plenary Session**
Fireside chat with Janet McCabe, EPA & Justin Ehrenwerth, The Water Institute of the Gulf
Sponsored by The Water Institute of the Gulf

11:00 - 11:50 — **Exhibit Hall**

12:00 - 12:50 — **Lunch**
Movies: *What Remains* and *Saving Louisiana's Coast Never Tasted So Good* look at a sustainable seafood that is playing a role in the restoration of Louisiana's coast.
Lincoln Beach tells the story of Sage Michael, an activist leading the charge to restore a once-segregated public park on the shore of Lake Pontchartrain.

Concurrent Session - 4

1:00 - 1:50

Session 25	Session 26	Session 28	Session 29	Session 30	Session 31	Session 32
Advancing Regional Sediment Management Practices for Coastal Restoration	**Risk Communication and Language: Challenges in Engaging Coastal Communities**	**RESTORE Act Center of Excellence for Louisiana: Research to support Louisiana's Coastal Master Plan**	**Marsh Dynamics**	**Response of Deltaic Plain Wetlands to River Diversions: Synthesis of the State of the Science - Part 1**	**Resilient Communities and Climate Change**	**Restoring Colonial Waterbird Nesting Habitat: Challenges, Solutions, and Continuous Improvement**
Mike Miner The Water Institute of the Gulf **Syed Khalil** CPRA	**Jacques Hebert** Environmental Defense Fund	**Melissa Baustian** Co-Moderator: **Bingqing Liu** The Water Institute of the Gulf	**Giovanna McClenachan** Nicholls State University	**James Pahl** CPRA	**Jessica Dandridge** Water Collaborative	**John Andrew Nyman** Louisiana State University
Jeff Andrews APTIM Building a Comprehensive Sediment Database Foundation to Support Louisiana Barrier Island and Marsh Restoration	**Rev. Clavijo** Bishop's Environmental Commission for the Episcopal Diocese of Louisiana A Faith Based Response to Coastal Erosion - A Time for Interfaith Churches to Act Together	**Frank Tsai** Louisiana State University Impacts of Groundwater Dynamics on Mississippi River Delta During Severe Hydrologic Events	**Brian Roberts** Louisiana Universities Marine Consortium Oiling Impacts on Salt Marsh Ecosystem Processes: Insights from a Large-Scale Marsh Mesocosm Experiment	**Robert Twilley** Louisiana Sea Grant Ecogeomorphology of Coastal Deltaic Floodplains and Estuaries in an Active Delta: Insights from the Atchafalaya Coastal Basin	**Jessica Watts** CDM Smith New Orleans Green Infrastructure – From Concept to Constructability	**Paul Leberg** University of Louisiana Trends and Challenges Faced by Brown Pelicans and Other Seabirds Nesting on Louisiana's Coastal Islands
Ben Beasley Applied Coastal Research and Engineering, Inc. Use of an Operational Sediment Budget for Planning, Management, and Evaluation of Barrier Island Restoration in South Louisiana	**Jim Keith** Freese and Nichols The Problem With 'Unprecedented': Mitigating Misinformation and Improving Risk Communication	**Claire Jeuken** **Jasper Dijkstra** Deltares USA Louisiana Storm Surge Effects Predicted by High-Resolution Vegetation Cover Derived From Satelline Remote Sensing	**Giulio Mariotti** Louisiana State University The Many Faces of Marsh Loss and Gain	**John White** Louisiana State University Consequences of Mississippi River Diversions on Nutrient Dynamics of Coastal Wetland Soils and Estuarine Sediments		**Todd Baker** CPRA Addressing Habitat Needs and Threats for Brown Pelicans and Other Colonial Nesting Water Birds
Soupy Dalyander The Water Institute of the Gulf A Structured Decision-Making Approach to Regional Sediment Management: Informing Louisiana's Barrier Island System Management BISM Program		**Scott Hagen** Louisiana State University A Path to Assessing Risk in Flood Transition Zones of Coastal Louisiana	**Yadav Sapkota** Louisiana State University Mechanism of Wetland Loss Via Marsh Edge Erosion in Coastal Louisiana: Implication for Restoration	**Tracy Quirk** Louisiana State University Mississippi River Sediment Diversions and Coastal Wetland Sustainability: Synthesis of Responses to Freshwater, Sediment and Nutrient Inputs	**Kim Mosby** Louisiana State University Designing Resilient Communities in an Era of Climate Change: The Multi-Scalar Connection Between Government Policies, Local Development Practices, and Community Wellbeing	**Katie Freer** CPRA Case Study: Queen Bess Island Restoration Project
Andrew McQueen USACE Restoring Coastal Louisiana Marsh Habitat in West Bay Employing Beneficial Use of Dredged Sediment and Engineering with Nature Principles	**Chris Mack** Freese & Nichols Science of Effective Outreach Communication	**Jim Chen** Northeastern University Integrating High-Fidelity Models with Field Observations to Predict Storm Impacts on Louisiana Barrier Islands and Wetlands: Caminada Headlands	**Carol Wilson** Louisiana State University The Role of Shoreline Cannibalization for Sustaining Louisiana Marshes: Land Loss to Long-Term Accretion and Mineral Accumulation in Barataria Basin	**John Day** Louisiana State University Can Denitrification Explain Coastal Wetland Loss: A Review of Case Studies in The Mississippi Delta and New England	**Ria Mukerji** Louisiana State University Changing Geographies of Flood Mitigation Policies - A Case Study of Central Louisiana	**William Vermillion** Gulf Coast Joint Venture Colonial Waterbird Restoration: Lessons Learned and Future Directions

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	**Corey Miller** **CRCL**	**Erik Johnson** National Audubon Society
Gary Brown USACE Numerical Model Analysis of Proposed Lateral Bar Dredging on Sedimentation in the Lowermost Mississippi River	**Steven Scyphers** Northeastern University **Todd M. Swannack** USACE **Justin Kozak** Center for Planning Excellence **Hilary Stevens** Restore America's Estuaries 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.	**Daniel Bosch** LSU Paul M. Hebert Law Center, Advocacy Programs Louisiana's 'Elephant in the Room': What Legal Remedies Would be Available Amid Failure of the Old River Control Structure	**Laura Windecker** The National Academies of Sciences, Engineering, and Medicine **Christopher Esposito** The Water Institute of the Gulf **Krista Jankowski** The Coastal Protection and Restoration Authority **Olivia Sugarman** Louisiana State University **Jill Trepanier** Louisiana State University 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	**Alan Shiller** University of Southern Mississippi Use of Stable Isotopes to Trace Mississippi River Discharge in Louisiana and Mississippi Coastal Waters	**Sibel Bargu** Louisiana State University Mississippi River Diversions and Phytoplankton Dynamics in Deltaic Gulf of Mexico Estuaries: A Review	**Adam Hosking** Jacobs Integrated Solutions for Coastal City Climate Resilience	**Kiah Williams** Tulane University Nest Success and Beach Renourishment: A Comparison of Three beach-nesting birds in Coastal Louisiana
Bo Wang Louisiana State University Large River Diversion Effects on Downstream Channel Dynamics – A Case Study of the Upper Atchafalaya River		**Naomi Yoder** Healthy Gulf Researching LNG Development in Louisiana and Texas		**Bingqing Liu** Louisiana State University Multi-Decadal Environmental and Land Cover Change Impacts on Dissolved Organic Carbon Distribution in the Barataria Basin, Louisiana from In-Situ and Satellite Observations	**Kehui Xu** Louisiana State University A Review of Sediment Diversion in the Mississippi River Deltaic Plain	**Chris Levitz** AECOM Coastal Resiliency Planning: Defining and Moving Towards Resilience on the Coast	**Erik Johnson** National Audubon Society Habitat Associations of Black Rail in Coastal Louisiana Marshes – Implications for Permitting and Restoration
Ming Tang Louisiana State University Channel Deformation in the Lower Atchafalaya River from 1977 to 2006		**Mark Davis** Tulane Institute The Role of Law and Policy in Harmonizing Mississippi River Nutrient Management with Coastal Restoration and Flood Protection		**Hoonshin Jung** The Water Institute of the Gulf Evaluation of Potential Impacts of Nutrients and Primary Production in the Barataria Basin in Response to Proposed the Mid-Barataria Sediment Diversion	**Sam Bentley** Louisiana State University Deltaic Morphodynamics and Stratigraphic Evolution of Middle Barataria Bay and Middle Breton Sound Regions, Louisiana, USA: Implications for River-Sediment Diversions	**Amanda Taylor** Geosyntec Consultants Coastal Watershed Planning and Climate Change	**Mead Allison** Tulane University Quantifying Land Subsidence in the Mississippi Delta Region Through In-SAR Time-Series Analysis
T. Mitchell Andrus Royal Engineers and Consultants Projected Long-Term Delta Building Responses to Potential Flow Modifications at the Mississippi-Atchafalaya Bifurcation		**Megan Terrell** Plauchй & Carr LLP Coastal Landloss Lawsuits; future settlement potential and framework		**Peter Mates** Louisiana State University Wetland Soil Phosphorus Forms and Cycling in the Barataria Basin Within the Area of Impact of the Planned Mid-Barataria Sediment Diversion	**Navid Jafari** Louisiana State University Wetland Soil Strength with Emphasis on the Impact of Nutrients and Sediments of Case Studies in The Mississippi Delta and New England	**Rachelle Trahan** Rachelle Trahan Design Inland from the Coast: Capturing Local Knowledge Through Visualization to Increase Adaptative Capacity in Communities Facing Climate Change	

3:00 - 3:50 — **Poster Session**

4:30 - 6:00 — **Virtual Reception**

Friday, June 4, 2021

9:00 - 9:50 — **Exhibit Hall**

10:00 - 10:50 — **Plenary Session**
Marcia McNutt, National Academy of Sciences
Student Awards
Sponsored by the Coastal Restoration and Protection Authority

Concurrent Session - 6

11:00 - 11:50

Session 41

Mid-Basin Sediment Diversion Program I - Overview of Project Details, Features, and Status

Dain Gillen
CPRA

Bruce Lelong
AECOM
Ranjit Jadhav
FTN Associates, Ltd.

Design of the Mid-Barataria Sediment Diversion Project

Scott Peyton
Stantec Consulting Services Inc.

Design of the Mid-Breton Sediment Diversion Project

Session 42

Multi-Dimensional Considerations in Planning for Managed Retreat

Jessica Simms
Office of Community Development

Balakrishnan Balachandran
University of Illinois at Urbana Champaign
Craig Colten
Louisiana State University
Colette Pichon Battle
Gulf Coast Center for Law & Policy

“
This panel will explore and unpack the complex challenges and elements of planning for managed retreat, including climate-related risks and prioritization of risk tradeoffs; community, state and federal leadership, livelihood sustainability, place attachment, and restorative community development.”

Session 43

Educating Louisiana's Next Generation of Coastal and Environmental Lawyers

Beaux Jones
The Water Institute of the Gulf

Edward Richards
Louisiana State University
Jim Wilkins
Louisiana Sea Grant
David Peterson
CPRA

This panel brings together a group of highly-respected academics and practitioners with wide-ranging experiences in the legal field to engage in a robust discussion about what the next generation of lawyers should be focusing on in their education and how current lawyers can expand their practice and skillsets to better meet the legal and policy challenges facing coastal Louisiana.

Session 44

Using Large-Scale Monitoring Data to Inform Future Planning

Rachel Rhode
Environmental Defense Fund

Shaye Sable
Dynamic Solutions, LLC

The CASM Food Web Model for Evaluating Biomass Responses and Energy Cycling in Louisiana’s Estuaries

Torbjorn Tornqvist
Tulane University

Tipping Points of Louisiana’s Coastal Marshes Due to Accelerated Sea-Level Rise – Has the Ship Sailed?

Angelina Freeman
CPRA

Implementing Agency-Coordinated Water Quality Monitoring in Coastal Louisiana: Challenges and Lessons Learned

Josh Carter
Mott McDonald

Coastal Analysis and Restoration Applications of Machine Learning Methods

Session 45

Remote Sensing Applications for Monitoring

Alisha Renfro
NWF

Marc Simard
Jet Propulsion Laboratory

NASA’s Airborne and Field Campaign in the Mississippi River Delta: DELTA-X

Brendan Brown
CDM Smith

The Use of Drones In Coastal Restoration Projects: Benefits and Challenges

Brady Couvillion
USGS

Assessing the Efficacy of Coastal Wetland Planning, Protection and Restoration Act CWPPRA Restoration Projects Intended to Create or Sustain Land

Alexandra Christensen
Jet Propulsion Lab

Multi-Source Remote Sensing Of Vegetation Dynamics In The Mississippi River Delta

Session 46

Integrating Social Science with Natural Sciences in Gulf Coast Communities and Beyond

Natalie Snider
Environmental Defense Fund

Nina Berlin Rubin
Stanford University
Jason Holley
Cornell University
Simone Domingue
University of Colorado - Boulder
Elyse Mason
Policy Research Group
Corey Miller
Coalition to Restore Coastal Louisiana

Communities face mounting threats to their homes, health, and livelihoods from climate change, therefore scientific analysis of how social systems perceive, respond, and adapt to extreme ecological changes on a broad scale is needed. This panel will focus on ongoing research to inform community adaptation efforts for more effective and scalable solutions to assist decision-makers in understanding and integrating the socio-ecological system.

Session 47

Climate-Proofing our Communities for the 21st Century

Steve Mathies

John Malueg
Stantec

Community Shift from Disaster Response to Damage Prevention

Marius Sokolewicz
Royal Haskoning DHV

Innovative Approaches in Coastal Flood Protection to Increase Efficiency and Reduce Costs

Dan Grandal
Stantec

Blue and Green Infrastructure for a Resilient Future in New Orleans

Brian Snyder
Louisiana State University

Preparing Coastal Communities for Decarbonization-Induced Socio-Ecological Stress

Session 48

Modeling and Restoration Potential of Forested Wetlands

Shelby Barrett
Pontchartrain Conservancy

Victor Rivera-Monroy
Louisiana State University

Louisiana’s Mangroves Carbon Storage Capacity in the Context of Increasing Subsidence and Sea Level Rates: Management Constraints and Economic Implications

Katie Percy
National Audubon Society

Can Coastal Restoration Projects Preserve Bald Eagle Haliaeetus leucocephalus Breeding Habitat in Coastal Louisiana?

Gary Shaffer
Southeastern Louisiana University

Hydrologic Restoration of Two Baldcypress - Water Tupelo Swamps in Coastal Louisiana

Soroush Sorourian
FTN-Associates, Ltd

Hydrodynamic and Water Quality Modeling of Mississippi River Reintroduction into Maurepas Swamp

Friday, June 4, 2021

12:00 - 12:50

Lunch

Music by *Sweet Crude.* This indie pop band, which formed in 2012, performs songs in English and Louisiana French. Their latest album is *Officiel-Artificiel.*

Concurrent Session - 7

12:40 - 1:00

1:00 - 1:50

Session 50	Session 51	Session 52	Session 53	Session 54	Session 55	Session 56	Session 57
Pushing Back and Moving Forward: A Story of Resilience in Barataria-Lafourche-Terrebonne	**Louisiana's Climate Initiatives Task Force Overview and Update**	**Cultural Heritage Tools for Coastal Restoration**	**Science and Planning at the Watershed Scale**	**Coastal Education and Water literacy: Louisiana's Nonformal Educational Ecosystem**	**Improving Resiliency Through Mapping: Using TEK to Determine Vulnerability and Sustainability**	**Processes and Responses on Barrier Islands**	**Modeling, Monitoring, and Adaptive Management of Diversions**
John Doucet Nicholls State University	**Charles Sutcliffe** Louisiana Office of the Governor	**Ella Camburnbeck** GCR, Inc.	**Allison DeJong** Water Institute of the Gulf	**Claire Anderson** Ripple Effect	**Laura Kelley** Tulane University	**Julie Bernier** USGS	**Brian Lezina** CPRA
John Doucet Nicholls State University Sediment, Settlement, and Cyclone: The Fall and Rise of Southeast Coastal Louisiana at the Turn of the 20th Century	**Harry Vorhoff** Louisiana Office of the Governor Climate Initiatives Task Force Overview	**Dr. Charles McGimsy** Louisiana Department of Culture **Chris Cook** Pontchartrain Conservancy **Nathan Lott** Preservation Resource Center of New Orleans **Kim Walden** Tribal Historic Preservation Officer, Chitimacha Tribe of Louisiana This panel will focus on the inherent synergy between cultural heritage preservation and ecosystem restoration in Southeast Louisiana with a focus on practical tools for identifying and protecting special places.	**Rachelle Sanderson** Capital Region Planning Commission Transforming Challenges of Uncertainty and Fragmentation into Opportunities for Regional Watershed Governance and Collaboration	**Sarah DeBacher** Louisiana Endowment for the Humanities Increasing Community Awareness of Coastal Impacts through Prime Time Family Reading	**Matthew Bethel** Louisiana Sea Grant **DeWitt Braud** Louisiana State University **Donald Dardar** Pointe-au-Chien Indian Tribe **Patricia Ferguson-Bohnee** Arizona State University and Pointe-au- Chien Indian Tribe **Tara Lambeth** Terrebonne Parish Consolidated Government Louisiana Sea Grant has worked with the Pointe-au-Chien Indian Tribe to document the Tribe's TEK and has developed maps based on this data to better understand the dominant factors contributing to the community's physical vulnerability to coastal hazards and to provide data to help the Tribe with its plans of sustainability.	**James McMenis** CPRA West Grand Terre Island and the Need for Beach Nourishment and Stabilization	**Gongqiang He** FTN Associates, Ltd. Flow-3D Modeling of Hydraulic Design of Sediment Diversions: The Mid-Barataria Sediment Diversion
Susan Testroet-Bergeron Barataria-Terrbonne National Estuary Program Louisiana's Coastal Citizens: Looking Back, Adapting, and Moving Forward	**Dr. Alyssa Dausman** The Water Institute of the Gulf Utilizing Structured Decision Making to Develop Climate Policy		**Haihong Zhao** Arcadis Study of the Combined Effects of Rainfall and Storm Surge in Upper Barataria Basin	**Murt Conover** Louisiana Universities Marine Consortium An Introduction to LUMCON Education and Outreach Programs		**Julie Bernier** USGS Landscape Evolution of the Northern Chandeleur Islands Driven by Storms and Human Modification	**Agnimitro Chakrabarti** FTN Associates, Ltd. Numerical Modeling of Hydrodynamics and Sediment Transport for Sediment Diversion Design: Challenges and Lessons Learnt from the Mid-Barataria Sediment Diversion
Gary LaFleur Nicholls State University Integrating the Louisiana Coast into the College Curriculum	**Lindsay Cooper** Louisiana Office of the Governor **Colleen McHugh** The Water Institute of the Gulf Climate Strategies and Actions & Evaluating the Potential Outcomes		**Randy Bushey** Jacobs Engineering Group Watershed-Based Flood Reduction and Habitat Restoration Lessons Learned	**Brian Gautreau** LSU AgCenter Taking Coastal Education and Water Literacy Statewide through Teacher Trainings and Field Experiences		**Jennifer Miselis** U.S. Geological Survey Natural and Human-Related Variability in Sediment Flux at the Chandeleur Islands, LA	**Natalie Snider** Environmental Defense Fund Enabling Robust Adaptive Management for Sediment Diversions
Windell Curole South Lafourche Levee District Evacuation, Elevation, and Innovation: Community Survival in a Subsiding Delta	**Harry Vorhoff** Louisiana Office of the Governor Offshore Wind Development in the Gulf of Mexico		**Thomas Douthat** Louisiana State University Analyzing the State of Multi-Jurisdictional Watershed Planning in the Upper Pontchartrain Basin	**Heather Fox David** Louisiana Department of Wildlife & Fisheries Aquatic Outreach and Education Program			**Marc Neliz** ESSA Enabling Adaptive Management of Diversions with a Real-Time Operations Tool

June 4, 2021

Concurrent Session - 8

2:00 - 2:50

Session 58	Session 59	Session 60	Session 61	Session 62	Session 63	Session 64
Forever Home on the Frontlines of Louisiana's Coastal Crisis: Consideration for Implementation of Nonstructural Solutions	**Inland from the Coast: Preparing for Environmental Change**	**Creating Social Value in Restoration Projects**	**The Louisiana Watershed Initiative and Coastal Flood Transition Zones: Modeling**	**Lamentations: Water in Two Natural States**	**Reflections on Building Resilient Communities in the Wake of Disasters**	**Strategies for Success: Different Design Approaches for Island Restoration**
Grace Morris Sierra Club	**Craig Colten** Louisiana State University	**Edwin Pinero** EcoMetrics	**Matthew Bilskie** Louisiana State University	**Russell Lord** New Orleans Museum of Art	**Robin Keegan** Deputy Assistant Secretary for Economic Development, U.S. Department of Housing and Urban Development	**Andrew Beall** CPRA
Darilyn Turner Zion Travelers Cooperative Center **Andrea Declouet** Ironton, LA **Jessi Parfait** Water Institute of the Gulf **Bette Billiot** United Houma Nation What does forever home look like in coastal Louisiana? Panelists will share insights of Black and Indigenous coastal communities and explore an expansive discussion on solutions at the intersection of home, community and economic justice.	**Craig Colten** Louisiana State University Fluid Environments and Fixed Borders: Reconciling Changing Environments and Fixed Boundaries Inland from the Coast	**Anastasia Behr** Dow **Mart Black** Terrebonne Parish **Rick Johnson** Entergy **Taylor Marshall** Restore the Earth Foundation This session will demonstrate how coastal restoration projects create quantifiable market and social value for stakeholders including funders, host communities, and local government. The session will focus on innovative means of identifying, quantifying, and valuing the social and environmental co-benefits derived from restoration projects.	**Hugh Roberts** The Water Institute of the Gulf Louisiana Watershed Initiative: Flood Transition Zones	**David Muth** National Wildlife Federation **Tina Freeman** The Decatur Studio **Colette Pichon Battle** Gulf Coast Center for Law & Policy **Brent Goehring** Department of Earth and Environmental Sciences, Tulane University This is panel will focus on the Louisiana wetlands and Arctic and Antarctic glaciers. "Lamentations" demonstrates how the rising waters along the coast of Louisiana are both visually and physically connected to the melting glaciers at the poles, despite the separation of vast distances. The panelists will explore the ecological, social and political impact of the impending sea level rise.	**Clair Hebert Marceaux** Cameron Parish Port **Fallon Samuels Aidoo** University of New Orleans **Pat Forbes** State of Louisiana Office of Community Development **Robin Barnes** Resilience Resolutions Drawing on experiences here in Louisiana as well as nationally, this panel will focus on practical tools and lessons learned to create resilient communities in the wake of disasters. Panelists will touch on multiple dimensions of resilience including the social, economic, and environmental in discussing concrete strategies for building resilient communities.	**Michael Poff** Coastal Engineering Consultants, Inc. CEC North Breton Island Restoration: It's for the Birds!
	Nicki Pace and Melissa Daigle Louisiana Sea Grant Local Governments: Building a Safer Future		**Felix Santiago-Collazo** Louisiana State University Simulation of Idealized Compound Flood Events in Low-gradient Coastal Watersheds			**Jacques Boudreaux** CPRA **Todd Baker** Rabbit Island Restoration: Mitigating Risks and Producing Solutions Throughout Project Implementation
	Traci Birch LSU Coastal Sustainability Studio **Kathleen Gordon** AIA Louisiana Reimagining the Watershed: Speculative Design for Envisioning Sustainable Water Systems		**Matthew Bilskie** Louisiana State University Coastal Flood Transition Zone Modeling: An Historical Perspective to Future Possibilities			**Jessica Mallindine** Bureau of Ocean Energy Management BOEM The Marine Minerals Program: Supporting Coastal Restoration through Partnerships and Resource Management
	Marla Nelson UNO Department of Regional and Urban Planning Assisting Adaptive Migration for Just Outcomes					**April Newman** CPRA Scaling Up: Combining Multiple Islands Into One Project in the Terrebonne Basin

3:00 - 3:50

Closing Plenary Session

Richard Campanella, Tulane University

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