### Day One Opening Plenary Session (Exhibit Hall C)
- Welcome by Galveston Bay Estuary Program Manager, Lisa M. Marshall
- Address by Regional Administrator, U.S. Environmental Protection Agency Region 6, Ken McQueen
- Presentation of Resolutions by Galveston Bay Council Member, Lori Trawek
- State of the Bay Presentation by Houston Advanced Research Center President, Lisa Gonzales

### Concurrent Session I

**Public Awareness and Action (Room A1)**

- **The Galveston Bay Report Card: Five Years of Cultivating Action**
  - Erin Kinney, Houston Advanced Research Center

- **The Galveston Bay Foundation’s Oyster Gardening Program and its Impact on Volunteers, the Community, and the Bay**
  - Michael Netubich, Galveston Bay Foundation

- **Increasing Awareness Through Awards Programs**
  - Andrea Tantillo, Houston-Galveston Area Council

**Oyster Restoration and Regulation (Room A2)**

- **Restoration efforts are underway. This session will focus on the current state of the resource as well as address public policy and on the ground efforts.**

- **Oyster Restoration in Galveston Bay**
  - Bill Rodney, Texas Parks and Wildlife Department

- **From Restaurants to Reefs – The Galveston Bay Foundation’s Oyster Shell Recycling Program, Past, Present, and Future**
  - Halle Leja, Galveston Bay Foundation

- **The State of Galveston Bay Oysters from a Manager’s Perspective**
  - Emma Clarkson and Christine Jensen, Texas Parks and Wildlife Department

- **The Proposed Design of the Oyster Mariculture Program**
  - Texas Parks and Wildlife Department

**Coordinated Monitoring in the Wake of Hurricane Harvey Lightning Round**

- **This session will focus on data collection efforts organized and executed immediately following Hurricane Harvey and the lessons learned from scientific and logistical standpoints that can be applied to future disasters.**
  - Facilitated by Stephanie Glenn, Houston Advanced Research Center

- **Panels include:**
  - Jamie Stiechen, Texas A&M University at Galveston
  - Caimes Schonbauchler, Texas Water Development Board
  - Kristen Thyng, Texas A&M University at Galveston
  - Kathryn E. F. Shamberger, Texas A&M University at Galveston
  - Hui Liu, Texas A&M University at Galveston
  - Gerardo Gold-Bouchot, Texas A&M University at Galveston
  - George Guille, Environmental Institute of Houston
  - Michael T. Lee, U.S. Geological Survey

**Emerging Contaminants in an Estuarine Environment (Room A4)**

- **Toxic and Nutrient Metals in Galveston Bay: A Quarterly Time-Series 2017–2019**
  - Jessica Fitzsimmons, Texas A&M University at Galveston

- **The Evaluation of Legacy and Emerging Pollutants in Galveston Bay**
  - David Hala, Texas A&M University at College Station

- **Role of Extreme Weather Events, Pollutants and Freshwater Inflows on Phytoplankton Community Composition in Galveston Bay, Texas**
  - Antonietta Quigg, Texas A&M University at Galveston

- **Distribution of Halogenated Volatile Organic Compounds (VOCs) in Galveston Bay, Texas**
  - Garrett Walsh, Texas A&M University at College Station

### Concurrent Session II

**Galveston Bay Watershed Trash Action Plan: Partners in Litter Prevention (PLP) (Room A1)**

- **A lightning round** presentation session that highlights the formation of PLP, the purpose and goals of the Action Plan, and efforts of PLP stakeholders across the three goals of the Action Plan in the lower Galveston Bay watershed.

- **Panelists include:**
  - Trash Tracker and Pledge on Don’ttrashagoodthing.org
  - Amanda Hackney, Black Cat GIS and Biological Services

**Species Monitoring and Research – Reptiles and Mammals (Room A2)**

- **Monitoring Bottlenose Dolphins in Galveston Bay, Texas**
  - Kristy Fazioli, Environmental Institute of Houston

- **Status of Galveston Bay Terrapin Populations and Potential Threats to the Species**
  - George Guille, Environmental Institute of Houston

**Soil Health Management for Crops, Livestock, and Wildlife (Room A3)**

- **Coastal Zone Soil Survey in Texas**
  - Jon Weidenfeld, Natural Resources Conservation Service

- **Activities with Coastal Conservation and Aquaculture**
  - Roberti Zehr, Natural Resources Conservation Service

**Coastal Restoration and Resilience (Room A4)**

- **Large Scale Coastal Restoration Concepts for the Texas Upper Coast: How Much Sediment Is Needed?**
  - Carla Kattman and Juan Moya, Texas General Land Office

- **Coastal Planning Program**

- **Coastal Texas Protection and Restoration Feasibility Study: Large Scale Ecosystem Restoration Along the Texas Coast**
  - Dianna Ramirez, Texas General Land Office

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**Notes**: Thank you for attending!
• Bayou Preservation Association’s Partnership with the City of Houston’s Bureau of Pollution Control and Prevention, Houston Health Department on their Community Health Improvement Plan (CHIP) Efforts to Decrease Nonpoint Source Pollution
  Sarah P. Bernhardt, Bayou Preservation Association
• Developing and Implementing a Marine Debris Action Plan for Galveston
  Karla Klay, Artist Boat
• Plastic Pollution Prevention Partnership Update
  Stennie Meadours, Galveston Bay Chapter – Texas Master Naturalist
• Trash Bash
  Kendall Guidroz, Houston-Galveston Area Council
• Galveston Bay Regional Litter and Marine Debris Database
  Erin Kinney
• Macroplastic Citizen Science Monitoring Program for Galveston Bay
  Nick Ellis, Galveston Bay Foundation

Movement Patterns and Habitat Use of Sea Turtles on the Upper Texas Coast: Protecting and Sustaining Living Resources
  Chris Marshall, Texas A&M University at Galveston
Impact of Salinization Events on American Alligators
  Lene Petersen, Texas A&M University at Galveston
Building Healthy Soils in a Backyard
  Brian Koch, Texas State Soil and Water Conservation Board

Overview of the 2019 Texas Coastal Resiliency Master Plan
  Tony Williams, Texas General Land Office, Coastal Resources

Fishing Line Recycling Campaign
  Cynthia Clevenger, Galveston Bay Estuary Program
Galveston Bay Report Card
  T Noya Thompson, North American Association for Environmental Education
Breaking Down Barriers in Environmental Education
  Cindy Wilams, Galveston Bay Foundation
Predator and Salinity Effects on Invertebrate Communities in Galveston Bay
  Laura Jorgens, Texas A&M University at Galveston
Understanding the Ecology of Atlantic Rangia in Galveston Bay: Deciphering the Role of Freshwater Inflows
  Mohammad Shor, Environmental Institute of Houston, University of Houston Clear Lake
Monitoring the Movements and Habitat Use Patterns of Coastal Fishes in Galveston Bay, Texas Using Acoustic Telemetry
  Marco Liverinos, Texas A&M University at Galveston
The Seawater Carbonate Chemistry of Galveston Bay and Implications for Oyster Reef Health
  Tacey Hicks, Texas A&M University at Galveston

Large debris cleanup after Hurricane Harvey was a multiagency effort across federal and state offices. Panelists in this session will share information about those efforts and the communication strategies that have been developed since Harvey in preparation of the next event.

Panelists include:
• Sarah K. Rousseau, U.S. Coast Guard
• Tricia Campbell, U.S. Army Corps of Engineers Galveston District
• Tara Whittle/Christina Solis, Texas General Land Office
• Caitlin Wessel, National Oceanic and Atmospheric Administration Texas Marine Debris Emergency Response Guide
• Emily Ford, Galveston Bay Foundation

Gis Resources for The Mappily Challenged: Tools, Programs and Field Data Collection Apps for Beginners
  Amanda Hackney, Black Cat GIS and Biological Services
Mumps (Multi-species, Multinutrient Plankton Model) - A Modeling Tool for the Prediction of Algal Biomass and Dissolved Oxygen in Texas Bays
  Daniel Roelke, Texas A&M University at Galveston
A New Approach to Functionally Assess Estuarine Fish Communities in Response to Hydrologic Change
  Lisa Gonzalez, Houston Advanced Research Center
Ecosystem Health Assessment for the Coastal Gulf of Mexico: Opportunities for Downscaling to Galveston Bay
  Daniel Roelke, Texas A&M University at Galveston

5:00 p.m.
Evening Reception (Floral Ballroom A)

*A lightning round is a time-limited and slide-limited presentation format. This fast-paced program is intended to focus on the heart of the issue and engage the audience.*
Day 2 Opening Plenary Session (Exhibit Hall C)
- Welcome by Galveston Bay Council Chair, Glenn Cingerapel
- Address by Texas Commission on Environmental Quality Executive Director, Toby Baker
- Update on the Deepwater Horizon Restoration Funds for Texas
  - Accomplishments and Upcoming Opportunities, by the Bucket
  - Toby Baker, Executive Director, Texas Commission on Environmental Quality and Governor Abbott’s appointee to the RESTORE Council
- Working with the National Fish and Wildlife Foundation Gulf Environmental Benefit Fund in Coastal Texas
  - Robin Riechers, Coastal Fisheries Division Director, Texas Parks and Wildlife Department
- Natural Resource Damage Assessment and Restoration for the Deepwater Horizon Oil Spill by the Texas Trustee Implementation Group
  - David Green, Deputy Director, Coastal Resources Division, Texas General Land Office
- Summary of Deepwater Horizon Related Actions Benefiting the Galveston Bay Ecosystem
  - Jamie Schubert, Marine Habitat Resource Specialist, National Oceanic and Atmospheric Administration Restoration Center

Morning Break – Opportunity to network and visit the exhibits and poster presentations (Exhibit Hall B)

Concurrent Session IV

Engaging Communities in Citizen Science (Room A1)
- Texas Estuarine Resource Network: Citizen Science in Conservation
  - Kari Howard, Audubon Texas Coastal Program
- Community Benefits of a Citizen Science Water Monitoring Program
  - Nick Ellis, Galveston Bay Foundation
- Chasing Flood Waters on the Lower Trinity River
  - Tom Douglas, Citizen

Habitat Restoration and Enhancement for Birds (Room A2)
- Happy Homes for Nesting Waterbirds
  - David Buzan, Frenze and Nichols, Inc.
- Protecting Public Beaches and Nature Preserved to Stabilize Imperiled Coastal Bird Populations in Coastal Texas
  - Marla Van De, American Bird Conservancy
- New Technologies for Monitoring Birds in the Galveston Bay Watershed
  - Anna Valley, Houston Audubon
- High Island Rookery Resiliency and Enhancement
  - Peter Deichmann, Houston Audubon

Research and Management Techniques to Protect and Sustain Living Resources (Room A3)
- Houston Parks and Recreation Department's Riparian Restoration Initiative
  - Keli Ondracek, City of Houston Parks and Recreation Department
- Don’t Throw it Away: Beneficial Use of Vegetative Debris After a Storm
  - Tara Whittle, Texas General Land Office
- Should Galveston Bay Wetland Management Priorities and Strategies Change in Response to Increasing Mangrove Cover?
  - Anna Armitage, Texas A&M University at Galveston
- The Age of Restoration: Impacts on Freshwater Wetland Species Composition and Richness
  - Colleen O’Harte, Texas A&M AgriLife Extension Service

Funding and Financing Projects (Room A4)
- This panel will focus on identifying non-traditional or emerging funding sources, leveraging efforts with related programs, and examining success stories in sustained funding. Panelists will give short introductions to their efforts and a case study of a unique funding challenge or achievement. The panel will then discuss questions related to funding as raised by the moderators or audience. Panelists will represent local government, regional planners, nonprofits, and/or other related participants.
- Facilitated by Justin Brower, Houston-Galveston Area Council

Luncheon: Student Conservation Association – Youth Leadership in Conservation (Exhibit Hall C)

Concurrent Session V

Environmental Education in the Watershed Panel (Room A1)
- Having an environmentally aware community is essential for protecting Galveston Bay. Both formal and informal educators are working toward this goal; however, communities need easy, multidimensional access to quality local watershed programs. This panel discussion will focus on the Houston Environmental Resources for Educators (HERE) initiative and local programs that engage underrepresented and diverse communities.
- Facilitated by Alicia Mein-Johnson, Citizens Environmental Coalition
- The Quiet Invasion: A Guide to Invasive Species of the Galveston Bay Area
  - Erin Kenney, Houston Advanced Research Center
- Removal and Management of Chinese Tallow and Brazilian Peppergrass
  - Matt Singer, Galveston Bay Foundation
- Houston Audubon's Invasive Species Management in High Island
  - Peter Deichmann, Houston Audubon
- Stream Corridor Restoration: Techniques in Exotic Invasive Plant Species Removal
  - Sarah P. Bermant/Erin Rackstraw, Bayou Preservation Association

Water Quality and Hydrology (Room A2)
- The Impacts of Assimilative Capacity of Reservoirs on Coastal Inflows
  - Ryan Bane, Houston Advanced Research Center
- Monitoring Freshwater Inflow and Nutrient and Sediment Loading into Galveston Bay
  - Zulimar Lucena, U.S. Geological Survey
- The Changing Hydrology of The Trinity River
  - Webster Mangham, Trinity River Authority of Texas
- Water Quality and Species Response After Extreme Weather Events (Room A4)
  - Changes in the Water Quality and Microbial Community in Galveston Bay Following the Extreme Flooding Event Produced by Hurricane Harvey
  - Jamie Steichen, Texas A&M University at Galveston
- Dramatic Response and Slow Salinity Recovery of Galveston Bay to Hurricane Harvey: Observation and Modelling
  - Keyong Park, Texas A&M University at Galveston

Resilience of Estuarine Prolific Communities to Catastrophic Natural Disasters
- Hao Liu, Texas A&M University at Galveston
- Cyclone Driven Sediment Flux Within an Urban Estuary: Impact of Hurricane Harvey on Galveston Bay
  - Tim Dellapenna, Texas A&M University at Galveston

Invasive Plant Species Management (Room A2)
- Sarah P. Bermant/Erin Rackstraw, Bayou Preservation Association
- The Great Monofilament Fishing Line Recycling Adventure
  - Rick Becker, Galveston Bay Chapter–Texas Master Naturalist

Water Based Planning (Room A3)
- Making the Watershed Connection for Healthy Stream Corridors
  - Sarah P. Bermant, Bayou Preservation Association
  - Justin Bower, Houston-Galveston Area Council
- Utilizing a Basin-Wide Approach to Address Water Quality Impairments
  - Steven Johnston, Houston-Galveston Area Council

Hazard Mitigation and Planning (Room A4)
- Local Community Planning for Resilience and Mitigation with Texas Citizen Planner
  - Celia Guathier-Lowry, Texas A&M AgriLife Extension Service
- Green Infrastructure for Texas: Managing Stormwater Across the Landscape Spectrum
  - Charris York, Texas A&M AgriLife Extension Service
- Stormwater Treatment Wetland Success Stories and Where We Go from Here
  - Christina Taylor, Texas A&M AgriLife Extension Service

Afternoon Break – Opportunity to network and visit the exhibits and poster presentations (Exhibit Hall B)

Concurrent Session VI

Promoting Beneficial Use of Dredged Material (Room A1)
- Community-Centered Approaches to Boater Waste Education
  - Ted Drosch, Galveston Bay Foundation
- Oyster Gardening – A Partnership of Schools, Nonprofits, and Community
  - Maureen Nolan-White, Galveston Bay Chapter–Texas Master Naturalist
- The Great Monofilament Fishing Line Recycling Adventure
  - Rick Becker, Galveston Bay Chapter–Texas Master Naturalist

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Adaptive Change Management in Environmental Planning
- Todd Running, Houston-Advanced Area Council

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### How Are We Doing?###
**SPEAKER AND OVERALL EVALUATIONS AT:**
www.tceq.texas.gov/goto/evaluations

### Save the Date!###
**ENVIRONMENTAL TRADE FAIR & CONFERENCE**
MAY 12-13, 2020 | AUSTIN CONVENTION CENTER
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- Welcome by Galveston Bay Council Chair, Glenn Clingenpeel
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Research and Management Techniques to Protect and Sustain Living Resources (Room A3)
- Houston Parks and Recreation Department’s Riparian Restoration Initiative
  - Kelli Onofrech, City of Houston Parks and Recreation Department
- Don’t Throw it Away: Beneficial Use of Vegetative Debris After a Storm
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  - Hui Liu, Texas A&M University at Galveston
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### Concurrent Session III

| 1:30 p.m. – 3:00 p.m. | Fishing Line Recycling Campaign Cynthia Clevenger, Galveston Bay Estuary Program  
Galveston Bay Report Card T Noya Thompson, North American Association for Environmental Education  
Breaking Down Barriers in Environmental Education Cindy Wilmers, Galveston Bay Foundation | Behavior Change for the Bay – Challenges, Successes, and Moving Forward Together (Room A1) | Predatory and Salinity Effects on Invertebrate Communities in Galveston Bay Marinas Laura Jorgens, Texas A&M University at Galveston | Predator and Salinity Effects on Invertebrate Communities in Galveston Bay Marinas Laura Jorgens, Texas A&M University at Galveston  
Understanding the Ecology of Atlantic Rangia in Galveston Bay: Deciphering the Role of Freshwater Inflows Mohammad Shahr, Environmental Institute of Houston, University of Houston Clear Lake | Species Monitoring and Research – Invertebrates and Fish (Room A2)  
Monitoring the Movements and Habitat Use Patterns of Coastal Fishes in Galveston Bay, Texas Using Acoustic Telemetry Mariah Lovernos, Texas A&M University at Galveston | Species Monitoring and Research – Invertebrates and Fish (Room A2)  
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The Seawater Carbonate Chemistry of Galveston Bay and Implications for Oyster Reef Health Tacey Hicks, Texas A&M University at Galveston | Movement Patterns and Habitat Use of Sea Turtles on the Upper Texas Coast: Protecting and Sustaining Living Resources Chris Marshall, Texas A&M University at Galveston | Movement Patterns and Habitat Use of Sea Turtles on the Upper Texas Coast: Protecting and Sustaining Living Resources Chris Marshall, Texas A&M University at Galveston  
Building Healthy Soils in a Backyard Brian Koch, Texas State Soil and Water Conservation Board | Building Healthy Soils in a Backyard Brian Koch, Texas State Soil and Water Conservation Board  
Impact of Salinization Events on American Alligators Leni Peterson, Texas A&M University at Galveston | Impact of Salinization Events on American Alligators Leni Peterson, Texas A&M University at Galveston  
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GIS Resources for The Mappily Challenged: Tools, Programs and Field Data Collection Apps for Beginners Amanda Hackney, Black Cat GIS and Biological Services  
A New Approach to Functionally Assess Estuarine Fish Communities in Response to Hydrologic Change Lisa Gonzalez, Houston Advanced Research Center | A New Approach to Functionally Assess Estuarine Fish Communities in Response to Hydrologic Change Lisa Gonzalez, Houston Advanced Research Center  
Ecosystem Health Assessment for the Coastal Gulf of Mexico: Opportunities for Downscaling to Galveston Bay Jenny Oakley, Environmental Institute of Houston, University of Houston Clear Lake | Ecosystem Health Assessment for the Coastal Gulf of Mexico: Opportunities for Downscaling to Galveston Bay Jenny Oakley, Environmental Institute of Houston, University of Houston Clear Lake  
Eco-Logical: Linking Environmental Resources and Transportation Planning for Sustainable Development Thushara Gunathunga, Houston-Galveston Area Council | ECO-LOGICAL: Linking Environmental Resources and Transportation Planning for Sustainable Development Thushara Gunathunga, Houston-Galveston Area Council |

| 5:00 p.m. | Evening Reception (Floral Ballroom A) | }
Day One Opening Plenary Session (Exhibit Hall C)
- Welcome by Galveston Bay Estuary Program Manager, Lisa M. Marshall
- Presentation of Resolutions by Galveston Bay Council Member, Lori Traweek
- State of the Bay Presentation by Houston Advanced Research Center President, Lisa Gonzalez

Morning Break – Opportunity to network and visit the exhibits and poster presentations (Exhibit Hall B)

Public Awareness and Action (Room A1)
- The Galveston Bay Report Card: Five Years of Cultivating Action Erin Kinney, Houston Advanced Research Center
- The Galveston Bay Foundation’s Oyster Gardening Program and Its Impact on Volunteers, the Community, and the Bay Michael Netherton, Galveston Bay Foundation
- Increasing Awareness Through Awards Programs Andrea Tantillo, Houston-Galveston Area Council

10:30 a.m. – 12:00 p.m
- Morning Break – Opportunity to network and visit the exhibits and poster presentations (Exhibit Hall B)

Concurrent Session I

10:30 a.m. – 12:00 p.m
- Oyster Restoration and Regulation (Room A2)
  Restoration efforts are underway. This session will focus on the current state of the resource as well as address public policy and on the ground efforts.

- The Galveston Bay Report Card: Five Years of Cultivating Action Erin Kinney, Houston Advanced Research Center
- The Galveston Bay Foundation’s Oyster Gardening Program and Its Impact on Volunteers, the Community, and the Bay Michael Netherton, Galveston Bay Foundation
- Increasing Awareness Through Awards Programs Andrea Tantillo, Houston-Galveston Area Council

12:00 p.m. – 1:15 p.m
- Luncheon (Exhibit Hall C), Keynote Speaker – Judy Braus, North American Association for Environmental Education

Concurrent Session II

Galveston Bay Watershed Trash Action Plan: Partners in Litter Prevention (PLP) (Room A1)
- A lightning round* presentation session that highlights the formation of PLP, the purpose and goals of the Action Plan, and efforts of PLP stakeholders across the three goals of the Action Plan in the lower Galveston Bay watershed.

- Species Monitoring and Research – Reptiles and Mammals (Room A2)
  Monitoring Bottlenose Dolphins in Galveston Bay, Texas
  Kristo Fazoli, Environmental Institute of Houston, University of Houston Clear Lake

- Status of Galveston Bay Terrapin Populations and Potential Threats to the Species George Guelden, University of Houston Clear Lake

- Soil Health Management for Crops, Livestock, and Wildlife (Room A3)
  Coastal Zone Soil Survey in Texas
  Jon Weidenfeld, Natural Resources Conservation Service

- Activities with Coastal Conservation and Aquaculture Robert Zehr, Natural Resources Conservation Service

- Soil Health Activities Along the Coast
  Alan Stahrke, Natural Resources Conservation Service

Coastal Restoration and Resilience (Room A4)
- Coastal Zone Soil Survey in Texas
  Jon Weidenfeld, Natural Resources Conservation Service

- Activities with Coastal Conservation and Aquaculture Robert Zehr, Natural Resources Conservation Service

- Soil Health Activities Along the Coast
  Alan Stahrke, Natural Resources Conservation Service

Emerging Contaminants in an Estuarine Environment (Room A4)
- Toxic and Nutrient Metals in Galveston Bay: A Quarterly Time-Series 2017–2019
  Jessica Fitzsimmons, Texas A&M University at Galveston

- The Evaluation of Legacy and Emerging Pollutants in Galveston Bay
  David Hala, Texas A&M University at Galveston

Distribution of Per-and Polyfluorinated Alkyl Substances (PFAS) in Galveston Bay, Texas
- Yina Liu, Texas A&M University at College Station

Role of Extreme Weather Events, Pollutants and Freshwater Inflows on Phytoplankton Community Composition in Galveston Bay, Texas
- Antonietta Quigg, Texas A&M University at Galveston

Distribution of Halogenated Volatile Organic Compounds (VOCs) in Galveston Bay, Texas
- Garrett Walsh, Texas A&M University at College Station

Thank you for attending!
STATE OF THE BAY SYMPOSIUM

2020 Vision for Galveston Bay

ELEVENTH

January 22-23, 2020

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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