Welcome to the

Coastal & Ocean Science at Work for Texans 2019 Texas Sea Grant Research Symposium



HOSTED ON THE CAMPUS OF Texas A&M University

at the **Texas A&M Hotel and Conference Center** Century Ballroom III and IV **April 9th, 2019 4 – 7 p.m.**

Resilient Communities &	Healthy Coastal
Economies	Ecosystems
Sustainable Fisheries &	Environmental Literacy &
Aquaculture	Workforce Development
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#COSW	T2019

Group A (4 – 4:50 p.m.)

Poster ID	Name	Institution	Project Title
HCE-1	Katherine Adams	Texas A&M University	Reproductive Histology of Blacktop Sharks, <i>Carcharhinus</i> <i>limbatus</i> , in the Northwestern Gulf of Mexico
RCE-1	Mohammad Aghababaei (Pl: Dr. Maria Koliou)	Texas A&M University	Long-Term Recovery Assessment of Infrastructure Systems and Communities Following Hurricane Harvey: Case Study for The City of Port Aransas
SFA-1	Hailey Boeck	Texas A&M University- Corpus Christi	<i>Bonamia:</i> Does it Mess with Texas? Survey for the Oyster Parasite <i>Bonamia</i> and MSX in Texas Bay Systems
HCE-4	Cesar Castillo	Texas A&M University	Assessing Hydrologic Connectivity Between a Coastal River and Its Floodplain Using a Field-Based Data Logger Array
HCE-7	Patricia Faulkner	Texas A&M University	Physiological Effects of Salinity Stress in Juvenile American Alligators (<i>Alligator</i> <i>mississippiensis</i>)
RCE-4	Dr. Jens Figlus	Texas A&M University at Galveston	If We Lose Follett's Island, We Lose Coastal Communities and Christmas Bay: A Geological Framework and Numerical Model Study of the Sustainability of Follett's Island
HCE-10	Dr. Chris Gabler	University of Texas Rio Grande Valley	Testing Macroclimate Models of Coastal Wetland Plant Communities

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Poster ID	Name	Institution	Project Title
	Dr. Xinping Hu	Texas A&M	Identification of Organic Matter
HCE-13	(Co-PI:	University- Corpus	Sources Contributing to Hypoxia Formation in Two South Texas
	Dr. Michael Wetz)	Christi	Estuaries
	Jin-Young Kim		Study of Wetland Erosion Due
RCE-10	(PI: Dr. Kuang-An	Texas A&M University	to Storms Through Combined Field, Laboratory, and Numerical
	Chang)		Investigations
	Dr. Kaijun Lu	University of Texas	Bioavailability and Chemical
HCE-16	(Pl: Dr. Zhanfei Liu)	Marine Science	Characterization of Dissolved Organic Nitrogen in South Texas
	(PI. DI. Zhaniei Liu)	Institute	Rivers
		Texas A&M	Evaluating Groundwater/Surface-
HCE-19	Dr. Dorina Murgulet	University- Corpus	Water Inflow and Nutrient Transport to Texas Coastal
		Christi	Embayments
		University	Mangroves are Invading Texas
HCE-22	Dr. Steven Pennings	of Houston	Salt Marshes: What Are the Consequences?
		Padre	
HCE-25	Dr. Donna Shaver	Island National	Cold Stunned Green Sea Turtles in Texas
		Seashore	
		Texas A&M University-	Evaluating Methane Production
HCE-28	Rachel Weisend	Corpus Christi	from Texas Coastal Mangroves
		Cillisti	
		T	Mapping Hydrologic Variability through Measuring Hydrogen
HCE-31	Anne Tamalavage	Texas A&M University	Isotopic Signatures within Blackwood Sinkhole, Abaco,
			Northern Bahamas

Group B (4:50 – 5:40 p.m.)

Poster ID	Name	Institution	Project Title
HCE-2	Ali Al-Badran	Texas A&M University	Experimental Evaluation of the Ecotoxicological Effects of Common Agricultural and Household Pesticide on Aquatic Organisms Using Shrimp and Fish
RCE-2	Dr. Kuang-An Chang (Co-Pl: Dr. Rusty Feagin)	Texas A&M University	Study of Wetland Erosion Due to Storms Through Combined Field, Laboratory, and Numerical Investigations
HCE-5	Dr. Kerri Crawford	University of Houston	Sand Dune Restoration: Do Plant Diversity and Soil Microbial Amendments Enhance Ecosystem Services?
HCE-8	Dr. Rusty Feagin (Co-Pl: Dr. Kuang-An Chang)	Texas A&M University	Study of Wetland Erosion Due to Storms Through Combined Field, Laboratory, and Numerical Investigations
SFA-2	Dr. Lee Fuiman	University of Texas Marine Science Institute	Refining Pigfish Fingerling Production for Commercial Aquaculture: Captive Spawning, Feeding and Fingerling Production
HCE-11	Rachel Glazner	Texas A&M University	The Effects of Plant Structure on Predation Success of <i>Callinectes</i> <i>sapidus</i> : Implications of Mangrove Expansion
RCE-5	Dr. Burak Güneralp	Texas A&M University	Community Resilience Collaborative: A Systems-Oriented Post-Event Assessment of Community Resilience
HCE-14	Dr. Luis Hurtado	Texas A&M University	Conservation Genomics of The Critically Endangered Kemp's Ridley Sea Turtle <i>(Lepidochelys kempii</i>)

Poster ID	Name	Institution	Project Title
HCE-31	Noah Luecke (Pl: Dr. Kerri Crawford)	University of Houston	Sand Dune Restoration: Do Plant Diversity and Soil Microbial Amendments Enhance Ecosystem Services?
HCE-17	Mark McKay	Texas A&M University- Corpus Christi	Changes in the Late Holocene Paleoenvironment of Southeast Texas Reverse Estuaries Evidenced by Multiple Proxy Observations: Request for Funds to Perform Isotopic Analysis of Foraminiferal Microfossils
HCE-20	Brie Myre	Texas A&M University	A Novel Method for Assessment of Feeding State in Loggerhead Sea Turtles (<i>Caretta caretta</i>)
HCE-23	Lee Pinnell	Texas A&M University- Corpus Christi	Microbial Colonization and Degradation of Polyethylene Terephthalate (PET) Plastic Debris in Corpus Christi Bay
RCE-7	Benjamin Ritt	Texas A&M University at Galveston	Using UAS Based Photogrammetry for the Study of Beach Replenishment Projects in Galveston, Texas
HCE-26	Matthew Streich	Texas A&M University- Corpus Christi	Assessing the Impact of a Newly Constructed Artificial Reef off Port Aransas, Texas: What are We Missing?
HCE-29	Thomas TinHan	Texas A&M University at Galveston	Feeding Ecology of Bull Sharks in the Northwestern Gulf of Mexico

Group C (5:40 – 6:30 p.m.)

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Poster ID	Name	Institution	Project Title
HCE-3	Dr. Lisa Campbell	Texas A&M University	A New Early Warning Tool to Mitigate the Impacts of <i>Dinophysis</i> , an Emerging Threat in Coastal Ecosystems
HCE-32	Scott Clark (Pl: Dr. Kerri Crawford)	University of Houston	Sand Dune Restoration: Do Plant Diversity and Soil Microbial Amendments Enhance Ecosystem Services?
HCE-6	Audrey Douglas	Texas A&M University- Corpus Christi	Submarine Groundwater Discharge Derived Dissolved Organic Nitrogen: The Overlooked Component in Coastal Systems and Nutrient Budgets
RCE-3	Nicole Elledge	Texas A&M University- Corpus Christi	Quantifying the Effect of Stormwater Runoff on <i>Enterococcus</i> <i>faecalis</i> Population Structure and Antibiotic Resistance in Corpus Christi Bay, Texas.
HCE-9	Christine Figgener	Texas A&M University	Mate Choice and Chemical Communication in Sea Turtles as Mechanism to Avoid Inbreeding and Hybridization
SFA-3	Dr. Masami Fujiwara	Texas A&M University	Economic Valuation of Brown and White Shrimps as Forage Species in the Coastal Areas of Texas
RCE-9	Dr. Kirby Goidel	Texas A&M University	Perceptions of Community Resilience in Texas Coastal Shoreline Counties & Rapid Hurricane Harvey Survey Project
RCE-6	Bimal Gyawali	Texas A&M University- Corpus Christi	Evaluation of Coastal Groundwater Storage Variability: Implications of the Effects on Climate Anomalies on Submarine Groundwater Discharge
HCE-12	Kenneth Hayes	Texas A&M University- Corpus Christi	Importance of Dissolved Organic Nitrogen and Phosphorus for Microbial Growth in a Eutrophic Estuary (Baffin Bay, Texas)
HCE-15	Dr. Andrea Kealoha	Texas A&M University	The Influence of Oceanic Particulate Organic Matter Uptake on Coral Reef Calcification: Implications for Ocean Acidification

Poster ID	Name	Institution	Project Title
HCE-18	Megan Mullis	Texas A&M University- Corpus Christi	Antimicrobial Production and Resistance Gene Expression in Mission-Aransas National Estuary Research Reserve, Texas
HCE-21	Chelsea Pavliska (Pl: Dr. Diego Figueroa)	The University of Texas Rio Grande Valley	The South Texas Banks Ecosystem: Oceanography, Biodiversity, and Genetics
HCE-24	Noura Randle	Texas A&M University	Uk' 37 Reconstructions of Surface Water Temperatures During the Eocene-Oligocene Transition to the Late Miocene: A North Western Pacific Perspective on the Onset of Antarctic Glaciation
HCE-27	Germán Torres (Pl: Dr. Diego Figueroa)	The University of Texas Rio Grande Valley	The South Texas Banks Ecosystem: Oceanography, Biodiversity and Genetics
HCE-30	Dr. Richard Woodward	Texas A&M University	Economic Valuation of Brown and White Shrimps as Forage Species in the Coastal Areas of Texas

PLEASE JOIN US FOR THE <u>Awards Ceremony</u>

at 6:30 p.m., featuring Dr. Mark A. Barteau, Vice President for Research at Texas A&M University

Most Cited Funded Publication Most Cited Funded Student Publication Most Engagement on Social Media Post: Principal Investigator Most Engagement on Social Media Post: Graduate Student Poster Presentation People's Choice Award: Best Principal Investigator Poster Presentation People's Choice Award: Best Student Inspire to Influence Award Research to Application Award

TEXAS SEA GRANT RESEARCH SUPPORT AT A GLANCE

