



RESEARCH DAY

Friday, November 8, 2024 – Marine Education Center

9:15 am	Opening Remarks	Dr. Kelly Lucas	Walkway
	Research Highlights		
9:30 am	Session 1	Dr. Robert Leaf, Moderator <i>Director, School of Ocean Science and Engineering</i>	Turtle B182
	“Quantifying the Viral Shunt in the North Atlantic” <u>Dr. Kristina Mojica</u> , Assistant Professor <i>Marine Science</i>		
	“Conservation CSI: How High-tech Environmental DNA Tools are Supporting Conservation of Imperiled Aquatic Species” <u>Dr. Nicole Phillips</u> , Associate Professor <i>Biology</i>		
	“Embryonic Stem Cells: What We Know and What We Don't - Innate Immunity Development during Embryogenesis” <u>Dr. Yanlin Guo</u> , Professor <i>Cell Biology</i>		
	“Coastal Dynamics in a Changing Climate” <u>Dr. Diana Berstein</u> , Assistant Professor <i>Marine Science</i>		
	Session 2	Dr. Christopher Hayes, Moderator <i>Interim Associate Director, Marine Science</i>	Whale B181
	“Multibeam Sonars: Marine Habitat Mapping and Potential for Stock Assessment” <u>Dr. Anand Hiroji</u> , Assistant Professor <i>Hydrography</i>		
	“Atlantis Massif, Building Blocks of Life IODP Expedition 399: Petrophysical Properties of the Longest Mantle Section in the Oceanfloor” <u>Dr. Jeremy Deans</u> , Associate Professor <i>Geology</i>		
	“Continuous Nature Factory of One-Dimensional (1D) Silver and Palladium Nanostructures” <u>Dr. Shohreh Hemmati</u> , Assistant Professor <i>Chemistry</i>		
	“Raman Microspectroscopic Mapping with Multivariate Curve Resolution-alternating Least Squares (MCR-ALS) for Analyzing Illicit Xylazine-containing Fentanyl Mixtures” <u>Dr. Xuyang He</u> , Assistant Professor <i>Forensic Science</i>		
10:30 am	Break		



RESEARCH DAY

10:45 am	<p>Session 3</p> <p>“Native American Women Leaving their Marks in Colonial Spanish Narratives of the Caribbean and the Coastal South” <u>Dr. Jeanne Gillespie</u>, Professor <i>Spanish</i></p> <p>“Okla Achokma (Healthy People): Four Directions-Based Healthy Ways Programming” <u>Dr. Tammy Greer</u>, Assistant Professor <i>Psychology</i></p> <p>“Medieval and Modern Technologies: Understanding the Past through Virtual Reality” <u>Dr. Courtney Luckhardt</u>, Associate Professor <i>History</i></p> <p>“Prolific Ground: Landscape and British Women's Writing, 1690-1790” <u>Dr. Nicolle Jordan</u>, Associate Professor <i>English</i></p>	<p>Dr. Jeff Hinton, Moderator <i>Associate Provost for Gulf Coast and Life-Long Learning Success</i></p>	Turtle B182
10:45 am	<p>Session 4</p> <p>“Building Restorative Schools: Dispelling Myths and Shifting the Paradigm with a Balanced Discipline Approach” <u>Dr. Summer Pannell</u>, Assistant Professor <i>Education</i></p> <p>“Impact of the Affordable Care Act on Participation in the Supplemental Nutrition Assistance Program among Low-income Older Medicare Beneficiaries” <u>Dr. Hyunmin Kim</u>, Assistant Professor <i>Health Policy & Administration</i></p> <p>“Leveraging Technology to Support Teachers' Fidelity of Universal Classroom Management Interventions” <u>Dr. Stephanie Smith</u>, Associate Professor <i>Psychology</i></p> <p>“NExUS-Mississippi: Engaging Complex Perspectives of Science Education & Outreach” <u>Dr. Maria Wallace</u>, Associate Professor <i>Science Education</i></p>	<p>Dr. Leila Hamdan, Moderator <i>Associate Vice President for Research, Coastal Operations</i></p>	Whale B181
11:45 am	<p>Lunch</p> <p>Innovation Programs and Opportunities Dr. Brian Cuevas, Director Natalie Guess, Program Manager <i>Office of Innovation Management</i></p> <p>2024 Lifetime Research Recipient Dr. Andrew Wiest <i>General Buford “Buff” Blount Professor of Military History Distinguished Professor of History Founding Director of the Dale Center for the Study of War and Society</i></p>	<p>MEC Conference Center</p>	



RESEARCH DAY

Research Showcase

Poster

101	“Intensive rearing of Southern Flounder (<i>Paralichthys lethostigma</i>) in recirculating systems: perspectives, status, and future challenges”	Angelos Apeitos Hatchery Manager <i>Thad Cochran Marine Aquaculture Center</i>
102	“Vessel-Based Education Impact of Vessel Based Education on Student Attitudes”	Samantha Capers Project Manager, Marine Education Center <i>Education and Human Sciences</i>
103	“Projected effects of coastal restoration on biomass and distribution of living resources depend on species, location and sea level rise”	Dr. Kim de Mutsert Associate Professor <i>Ocean Science and Engineering</i>
104	“Supporting Student Nurse Writing Confidence”	Dr. Lila de Tantillo Associate Professor <i>Leadership and Advanced Nursing Practice</i>
105	“Revising and Updating the United States Constitution”	Dr. Michael DeArmey Moorman Distinguished Professor, <i>Philosophy</i>
106	“Bridging Theory and Practice with Mixed Reality in Construction Management Education”	Dr. Mohsen Foroughi Sabzevar Assistant Professor <i>Construction and Design</i>
107	“Comparative Analysis of Terrestrial LiDAR Scanning and UAV Photogrammetry for Coastal Dune Surveying”	Lewis Jarvis <i>Gulf Coast Geospatial Center</i>
108	“AI-Driven Flood Level Monitoring via UAVs for Accelerated Recovery Operations”	Dr. Mirsalar Kamari Assistant Professor <i>Construction and Design</i>
109	“Strategies to Enhance Your Work/Life Balance”	Dr. Oscar "Danny" Lee Associate Professor <i>Leadership and Advanced Nursing Practice</i>
110	“Between the Devil and the Deep Blue Sea: Liminal performances and artistic identity in the work of Cab Calloway”	Dr. Paul Linden Professor <i>Communication</i>
111	“Exploring Machine Learning and Data Collection Methods for Underwater Magnetic Target Detection”	Joseph Luttrell Data Scientist <i>Ocean Science and Engineering</i>
112	“Sampling High dynamic Shallow Waters, using an Underwater Glider”	Kevin Martin Senior Marine Instrumentation Specialist <i>Ocean Science and Engineering</i>
113	“The Intersection of Ceramics and High-Performance Polymers”	Dr. Olivia McNair Assistant Professor <i>Polymer Science and Engineering</i>
114	“Reproductive Biology of the Bull Shark (<i>Carcharhinus leucas</i>) in the Gulf of Mexico and South Atlantic Bight”	Anna Millender Research Associate <i>Coastal Research Operations</i>
115	“2024 Accomplishments: Science Center for Marine Fisheries”	Dr. Eric Powell



RESEARCH DAY

Director, Center for Marine Fisheries
Ocean Science and Engineering

116 “Supporting sustainable oyster restoration and resource use through the Mississippi Based RESTORE Act Center of Excellence”

Jessica Pruett
Postdoctoral Research Associate
Ocean Science and Engineering

117 “Security and Privacy of Emerging Networks”

Dr. Ahmed Sherif
Associate Professor
Computing Sciences and Computer Engineering

118 “Applying Communication Theories to the Media and Communication Phenomenon in the Age of Artificial Intelligence”

Dr. Jae-Hwa Shin
Professor
Communications

119 “VRonSite: Using Online Virtual Site Visits to Enhance Students’ Collaborative Problem-Solving in Construction Management”

Dr. Yuan Sun
Assistant Professor
Construction and Design

120 “Smart Collision Alerting and Collision Avoidance System for USVs”

Vishwamithra Sunkara
Data Scientist
Ocean Science and Engineering

121 “Accelerating Operational Oceanography with Uncrewed Systems: Hypoxia Mapping in the Gulf of Mexico”

James Thompson
Hydrographer and Uncrewed Systems Specialist
Ocean Science and Engineering

122 “Tiny Homes Southern Charm Initiative”

Dr. Cindy Walls
Assistant Professor
Construction and Design

123 “Operations and Development of USM’s Deep Seafloor Mapping AUVs”

Max Woolsey
Research Engineer
Hydrographic Science Research Center

124 “Cross-Cultural Sources of Pregnancy Advice”

Dr. Sharon Young
Assistant Professor
Anthropology

Dr. Michelle Escasa-Dorne
Associate Professor
Anthropology, U of Colorado – Colorado Springs

Dr. Chimène Gesewicz
Assistant Professor
Social Science and Global Studies

2:45 pm Research Showcase Awards