

# Agenda

Monday, November 7

<p><b>8:00 a.m.</b></p>	<p><b>Registration Opens</b>  <i>Speakers and attendees check in, set up posters and exhibits in Room 2A/B, and enjoy coffee and morning refreshments.</i></p>
<p><b>9:00 – 9:35 a.m.</b>   <b>Room 2C</b></p>	<p><b>Welcome and Opening Remarks</b>  <b>Susan White</b>, Executive Director  <i>North Carolina Sea Grant, the North Carolina Water Resources Research Institute, and NC Space Grant</i>  <b>Elizabeth S. Biser</b>, Secretary  <i>North Carolina Department of Environmental Quality</i>  <b>Jonathan Pennock</b>, Director  <i>National Sea Grant College Program</i></p>
<p><b>9:35 – 10:15 a.m.</b>   <b>Room 2C</b></p>	<p><b>Opening Plenary</b>  <b>Elizabeth Frankenberg</b>, Director  <i>Carolina Center for Population Aging and Health (UNC-Chapel Hill)</i></p>
<p><b>10:15 – 10:30 a.m.</b></p>	<p><b>Networking Break in Room 2 A/B</b></p>
<p><b>10:30 a.m. – noon</b></p>	<p><b>Concurrent Session I</b></p>
<p><b>Room 3</b></p>	<p><b>Developing Community Viability</b>          (Scott Baker, North Carolina Sea Grant, moderator)  <b>Eric Herbst</b>, North Carolina Sea Grant  <i>The North Carolina Shellfish Farming Academy: An Aquaculture Training and Workforce Development Initiative</i>  <b>Holly Benton</b>, NC State University and North Carolina Sea Grant  <i>Labor Volatility in a Time of Crisis: Examining NC Coastal Communities During COVID-19</i>  <b>Ann Savage</b>, NC State University  <i>Critical Elements of a Community-Driven Disaster Recovery and Resilience Information Hub</i>  <b>David Griffith</b>, East Carolina University  <i>Sound Values: Livelihood Constellations, Networks, and Communicating Risk Along North Carolina’s Coast</i></p>
<p><b>Room 4</b></p>	<p><b>Innovations in Wastewater Treatment</b>          (Jane Harrison, North Carolina Sea Grant, moderator)  <b>Julia Harrison</b>, NC State University  <i>Using In-Situ Sensing Data to Predict Fecal Contamination in Estuarine Waters</i></p>

# Agenda (continued)...

	<p><b>Jane Harrison</b>, North Carolina Sea Grant <i>Tipping Points: Onsite Wastewater Treatment and Climate Change</i></p> <p><b>Holly Miller</b>, Tetra Tech <i>Town of Nags Head Decentralized Wastewater Management Plan Update</i></p> <p><b>Patrick Carroll</b>, UNC Wilmington <i>Multi-Trophic Waste Management for Marine Finfish Aquaculture in Land-Based Recirculating Aquaculture Systems Using the Salt-Tolerant Halophyte <i>Salicornia virginica</i></i></p>
<b>Room 6</b>	<p><b>Planning for a Resilient Future</b> (Chris Ellis, NOAA, moderator)</p> <p><b>Brian Byfield</b>, N.C. Office of Recovery and Resiliency <i>Lessons from Regional Resilience Planning in North Carolina</i></p> <p><b>Lisa Montefiore</b>, NC State University <i>From National to Local Scales: Integrated Approaches for Mapping Coastal and Estuarine Vulnerability to Projected Change</i></p> <p><b>Narcisa Pricope</b>, UNC Wilmington <i>Wetland Vulnerability Metrics as a Rapid Indicator in Identifying Nature-Based Solutions to Mitigate Coastal Flooding</i></p> <p><b>Mike O'Driscoll</b>, East Carolina University <i>Developing Coastal Plain Ecological Flow Guidance in the Albemarle-Pamlico Basin: Examples from Trent River</i></p>
<b>12:00 – 1:30 p.m.</b>	<b>Lunch and Networking Break in Room 2C</b>
<b>1:30 – 3:00 p.m.</b>	<b>Concurrent Session II</b>
<b>Room 3</b>	<p><b>Buying Time Along the Coast</b> (Sara Mirabilio, North Carolina Sea Grant, moderator)</p> <p><b>Karen Ampacher</b>, Saltwater Connections <i>"Buying Time" Down East</i></p> <p><b>Lydia Sellers</b>, Duke University <i>Landscape-level changes in Coastal NC: Using a documentary to understand perceptions of change</i></p> <p><b>Karl Dudman</b>, Oxford University <i>Institutional Blind Spots in Community Engagement</i></p> <p><b>Georgette Tso</b>, East Carolina University <i>Wave Attenuation Over Oyster Reef Breakwaters on Waterfront Properties in NC</i></p>
<b>Room 4</b>	<p><b>Bridging the Gap: Prioritizing Equity</b> (Christy Perrin, North Carolina Sea Grant, moderator)</p> <p><b>Bethany Cutts</b>, NC State University <i>Shifting Terrains: Society-Nature and Hazard Information for Fair-Minded Transdisciplinary Impact</i></p>

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	<p><b>Frank López</b>, North Carolina Sea Grant <i>Hurricane Florence Aftermath in New Bern: Extension Support for Recovery</i></p> <p><b>Hannah Tuckman</b>, UNC-Chapel Hill <i>The Use of Mobile and Social Media Data to Improve Disaster Management</i></p> <p><b>Isabella Kemp</b>, NOAA Hollings Scholar <i>Defining and Identifying Vulnerable Communities: A Practical Guide for Weather Forecast Offices</i></p>
<b>Room 6</b>	<p><b>Research Applications at the Intersection of Ecosystem and Community Resilience</b> (Cayla Cothron, North Carolina Sea Grant, moderator)</p> <p><b>Anne Smiley</b> and <b>Helena Garcia</b>, UNC-Chapel Hill <i>An Interdisciplinary Approach to Quantifying Flood Mitigating Ecosystem Services and Identifying Beneficiaries in New Bern, NC</i></p> <p><b>Curtis Smalling</b>, Audubon NC <i>Integrating the Needs of Coastal Birds and Vulnerable Communities in Climate Resilience Planning</i></p> <p><b>Adam Gold</b>, Environmental Defense Fund <i>North Carolina's Adaptation Journey to Flood Resilience</i></p> <p><b>Mallory Eastland</b>, South Atlantic Salt Marsh Initiative <i>Marsh Forward: A Collaborative Effort to Conserve the Salt Marsh in the Southeast</i></p>
<b>3:00 – 3:15 p.m.</b>	<b>Networking Break in Room 2 A/B</b>
<b>3:15 – 4:45 p.m.</b>	<b>Concurrent Session III</b>
<b>Room 3</b>	<p><b>Coastal Resilience and Sustainability for Rural Communities</b> Erin Seekamp, NC State University</p>
<b>Room 4</b>	<p><b>Near-Term Monitoring and Data Needs for Assessing Sea Level Rise Impacts</b> Natalie Nelson, NC State University</p>
<b>Room 6</b>	<p><b>Lightning Talks</b> (Frank Lopez, North Carolina Sea Grant, moderator)</p> <p>Presenters: <b>Lin Xiong</b>, East Carolina University, <b>Mackenzie Douglas</b>, UNC-Chapel Hill, <b>Evan Ferguson</b>, Cape Hatteras Secondary School, <b>Megan Geesin</b>, East Carolina University, <b>Frank Graff</b>, UNC-TV, <b>Josh Himmelstein</b>, UNC-Chapel Hill, <b>David Lagomasino</b>, East Carolina University, <b>Ryan Mitchell</b>, DRMP, <b>Ashley Oliver</b>, North Carolina Sea Grant, <b>Nick Corak</b>, Wake Forest University</p>
<b>5:00 – 7:00 p.m.</b>	<p><b>Poster Session and Reception in Room 2 A/B</b></p> <p><i>Join us for research poster presentations and a chance to network with conference participants and exhibitors. Enjoy heavy hors d'oeuvres, wine, and beer.</i></p>

# Agenda (continued)...

Tuesday, November 8	
8:00 a.m.	<p><b>Registration Opens</b> <i>Enjoy coffee and morning refreshments.</i></p>
9:00 – 9:25 a.m. Room 2C	<p><b>Welcome and Opening Speakers</b></p> <p><b>Susan White</b>, Executive Director <i>North Carolina Sea Grant, the North Carolina Water Resources Research Institute, and North Carolina Space Grant</i></p> <p><b>Randy Woodson</b>, Chancellor <i>NC State University</i></p> <p><b>Mladen Vouk</b>, Vice Chancellor for Research <i>NC State University</i></p>
9:25 – 9:45 a.m.	<b>Networking Break in Room 2 A/B</b>
9:45 – 11:45 a.m.	<b>Concurrent Session IV</b>
Room 3	<p><b>Enhancing the Resilience of the North Carolina Seafood Industry</b> (Barry Nash, North Carolina Sea Grant, moderator)</p> <p><b>Eric Edwards</b>, NC State University <i>Economic Impact of the Commercial Fishing Industry in North Carolina</i></p> <p><b>Sara Mirabilio</b>, North Carolina Sea Grant <i>Refinement and Testing of a Microprocessor-Based Shark Bycatch Reduction Device (M-B BRD) Using an Academic-Industry Partnership</i></p> <p><b>Ann Savage</b>, NC State University <i>Leveraging Direct-to-Consumer Marketing &amp; Tourism to Diversify Income Streams for Seafood Producers</i></p> <p><b>Angel Cruz</b>, NC State University <i>Supporting Fisheries with Student Interns</i></p> <p><b>Scott Baker</b>, North Carolina Sea Grant <i>Sea Grant's Angler Outreach: What's Working and Where Do We Go Next?</i></p>
Room 4	<p><b>Management of Seagrass Habitat and the Blue Crab Fishery Under Changing Climate</b> (Whitney Jenkins, North Carolina National Estuarine Research Reserve, moderator)</p> <p><b>Jessie Jarvis</b>, <b>Martin Posey</b>, <b>Troy Alphin</b>, <b>Michael Wheeler</b>, and <b>George Easterly</b>, UNC Wilmington, and <b>Anne Deaton</b>, NC Division of Marine Fisheries</p>

# Agenda (continued)...

<p><b>Room 6</b></p>	<p><b>Cross Cutting Coastal Resilience Efforts and Building Strategic Climate Partnerships</b>          (Sarah Spiegler, North Carolina Sea Grant, moderator)</p> <p><b>Jacob Boyd</b>, NC Division of Marine Fisheries, <b>Andrea Webster</b>, NC Office of Recovery and Resiliency, <b>Mackenzie Todd</b>, NC Division of Coastal Management, <b>Lora Eddy</b>, The Nature Conservancy, <b>Holly White</b>, NC Office of Recovery and Resiliency</p>
<p><b>11:45 a.m. – 1:15 p.m.</b></p>	<p><b>Lunch in Room 2C</b>  <i>Enjoy the Poster Awards Ceremony. Feast on striped bass from Locals Seafood, courtesy of StriperHub. And hear a presentation from StriperHub's Ben Reading. You can help the StriperHub team learn more by rating your striped bass lunch using the QR code on the inside back cover of this program.</i></p>
<p><b>1:15 – 3:05 p.m.</b></p>	<p><b>Concurrent Session V</b></p>
<p><b>Room 3</b></p>	<p><b>The Big Picture: Healthy Coastal Ecosystems</b>          (Erika Young, North Carolina Sea Grant, moderator)</p> <p><b>Erin Voigt</b>, NC State University  <i>Spatial Variation in Nursery Habitat Use by Juvenile Blue Crabs in a Shallow, Wind-Driven Estuary</i></p> <p><b>Stacy Trackenberg</b>, East Carolina University  <i>Assessing Faunal Community Composition in Newly Restored Seagrass Beds Across a Depth Gradient</i></p> <p><b>Alexander Smith</b>, UNC Wilmington  <i>Least Tern (<i>Sternula antillarum</i>) Disturbance Responses to Human-Related Activities on Hatteras Island</i></p> <p><b>Nick Funnell</b>, UNC-Chapel Hill  <i>Determining the Ecological Impacts of Shellfish Relay in North Carolina</i></p> <p><b>Megan Carr</b>, NC State University  <i>Quantifying Bacterial Water Quality Impacts of Sunny-Day Floods</i></p>
<p><b>Room 4</b></p>	<p><b>Marsh Interface: Edges of the Land and Sea</b>          (John Fear, North Carolina Sea Grant, moderator)</p> <p><b>Antonio Rodriguez</b>, UNC-Chapel Hill  <i>Salt Marsh Ontogeny Drives the Wide Range of Carbon Accumulation Rates</i></p> <p><b>Mollie Yacano</b>, UNC-Chapel Hill  <i>Impact of Eradication Methods on Nitrogen Cycling Associated with Invasive <i>Phragmites Australis</i></i></p> <p><b>Molly Bost</b>, NOAA  <i>Response of Fringing Salt Marsh Accretion and Carbon Burial to Land-Use Change of Tidal Creek Watersheds</i></p>

# Agenda (continued)...

	<p><b>Christina Salerno</b>, UNC Wilmington <i>Predation Amplifies the Effects of Parasite Infection on the Personality of a Keystone Grazer</i></p> <p><b>Sean Charles</b>, East Carolina University <i>Sediment and Marsh Vulnerability in Sediment-Starved Marshes in Currituck Sound, NC</i></p>
<b>Room 6</b>	<p><b>Emerging Technologies for Coastal Change</b> (Gloria Putnam, North Carolina Sea Grant, moderator)</p> <p><b>Ryan Mieras</b>, UNC Wilmington <i>Continuous Beach Morphology Observations Under Active Storm Forcing Using Compact 3D LiDAR Scanners</i></p> <p><b>Joe Long</b>, UNC Wilmington <i>Building a Webcam Observing Network to Support Coastal Communities</i></p> <p><b>Logan Howard</b>, National Weather Service <i>The Impact of the Gulf Stream on Marine Forecasting</i></p> <p><b>Matthew Scalora</b>, National Weather Service <i>New Wave Information Included in the NWS Coastal Waters Forecast</i></p> <p><b>Krissy Hopkins</b>, USGS <i>Can Green Stormwater Infrastructure Reduce Stream Stressor Impacts in Suburbanizing Landscapes?</i></p>

***The 2022 North Carolina Coastal Conference adjourns at 3:05 p.m. to allow some time to vote.  
Thank you for participating.***



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Use this QR code or visit [go.ncsu.edu/win-25](https://go.ncsu.edu/win-25).**