

FRIDAY, March 20th

*indicates student presentation

Time	Event	
7:30-8:15	Registration and Coffee	
8:15-8:30	Welcome and Announcements	
	Room A: Plants	Room B: Microbes/eDNA
8:30-8:45	Jay Pinckney <i>Marsh elevation effects on benthic microalgal biomass, community composition, and primary production in North Inlet Estuary, SC</i>	Richard Kane <i>Pilot community science campaign shows variation in biodiversity in the Lower Hudson Raritan Estuary and nearshore Atlantic Ocean using eDNA metabarcoding</i>
8:45-9:00	Lori Morris <i>What happens when Caulerpa prolifera becomes less prolific?</i>	*Carter Stancil <i>Reemergent populations of an invasive Rhizocephalan parasite in Long Island Sound</i>
9:00-9:07	Andrew Tweel <i>Quantifying key constraints on marsh resilience in South Carolina</i>	Melanie Cohn <i>Introducing TEAL-SHIPS: a coast-to-gulf stream transect of seasonal and annual ecosystem features</i>
9:07-9:15	Neil Ganju <i>Predicting salt marsh loss in Chesapeake Bay: multi-model synthesis and management applications</i>	*Aidan Leahy <i>The abundance of ammonia oxidizing Archaea in the Gulf Stream</i>
9:15-9:30	*Emily Hill <i>Comparing coastal freshwater wetland plant communities to identify patterns of resilience to saltwater intrusion</i>	*Mikayla Brueshaber <i>Metal and wooden wrecks: understanding heavy metals, environmental conditions, and microbial community</i>
9:30-9:45	*Mina Surprenant <i>How can we use uncrewed aerial vehicles (UAVs) to forecast marsh stability?</i>	*Essence Tomabene <i>Epiphyte dynamics on Sporobolus alterniflorus (Spartina alterniflora): implications for salt marsh primary productivity</i>
9:45-9:52	Byron Toothman <i>Invasive macroalgal mats catalyze mercury assimilation in salt marsh estuaries</i>	*Rebecca English (9:45-10:00) <i>Hypoxia induced changes in the phosphorus retention rates of sediments In Indian River Lagoon</i>
9:52-10:00	Molly Bost <i>Impacts of historical mosquito ditching on modern marsh dynamics</i>	
10:00-10:30	Break	
	Room A: Plants	Room B: Microbes/eDNA
10:30-10:45	Wilson Freshwater <i>Much ado about something – elucidating North Carolina Ulva diversity</i>	Tahera Attarwala <i>Assessing eastern oyster (Crassostrea virginica) predation and biodiversity utilizing real-time monitoring, eDNA analysis, and water quality in the Delaware Inland Bays</i>
10:45-10:52	Anna Weber <i>Complementary survey methods effectively characterize seagrass bed condition in the Albemarle-Pamlico National Estuary</i>	*Camille Michaud <i>The dynamics of estuarine optical properties and phytoplankton communities in Winyah Bay, SC</i>
10:52-11:00	*Shilpa Rao <i>The effects of H. wrightii on Z. marina seed germination</i>	*Henry Guy <i>Measuring anthropogenic impacts on estuarine benthic microalgal communities using sister estuaries</i>
11:00-11:15	*Madison Lytle <i>Temporal mismatch of seagrass structural and physiological indicators of stress to environmental conditions</i>	*Ima Hosseinzadeh <i>Prey quality consistency of phytoplankton cultures in hatchery systems</i>

11:15-11:30	*Lindsay Curl <i>Do mixed meadows matter? A stress-gradient approach to seagrass restoration success</i>	*Madison Eastburn <i>Factors influencing the distribution of diatoms on goose-beaked whales (<i>Ziphius cavirostris</i>)</i>
11:30-11:37	*Elyn Willse <i>Impacts of Sargassum inundation on nearshore water quality in the Florida Keys</i>	*Lucas White <i>Single reach mechanistic modeling of cyanobacteria in the Shenandoah River</i>
11:37-11:45	Lauren Hall <i>Patterns in the distribution of seagrass seeds in the Indian River Lagoon, Florida, USA</i>	*Ciara Daly <i>eDNA detection of <i>R. cuneata</i> in Lake Mattamuskeet</i>
11:45-1:00	Lunch	
	Room A: Biogeochemistry	Room B: Vertebrates
1:00-1:15	*Zlatka Minerva Rebodello Sanchez <i>Carbon and vegetation spatial variability in Virginia salt marshes</i>	*Emily Farrell <i>What fish do we miss? Comparing seine surveys and eDNA for fish detection in the Indian River Lagoon</i>
1:15-1:30	Michael Mallin <i>Long-term degradation in the Cape Fear River Estuary by anthropogenic impacts, 2000-2024</i>	*David Brooks <i>Characterizing spatiotemporal chorusing patterns of the silver perch (<i>Bairdiella chrysoura</i>) in Beaufort Inlet, NC, USA</i>
1:30-1:37	Karen Knee <i>What can radon tell us about methane emissions from cypress knees?</i>	Melissa LaCroce <i>Post restoration monitoring of oyster cultch reefs as essential fish habitat in Pamlico Sound, North Carolina, USA</i>
1:37-1:45	*Sebastian Diaz-Cortes <i>Methane emissions from soil and trees in forested wetlands of the Atlantic Coast (NC, USA)</i>	*Alexis Longmire <i>Do large-scale living shorelines effectively maintain seaward-landward connectivity for predatory fishes in nearshore landscapes?</i>
1:45-2:00	*Darlan Ng <i>Greenhouse gas and energy fluxes from contrasting towers within a forested riverine wetland</i>	*Shannon Powers <i>Investigating benthic microalgal contributions to diets of larval and juvenile mummichogs (<i>Fundulus heteroclitus</i>) in North Inlet Estuary, SC</i>
2:00-2:30	Break	
	Room A: Biogeochemistry	Room B: Vertebrates
2:30-2:45	*Benson Ossai <i>Dominant mechanism controlling secondary circulation on the oligohaline reach of Delaware River Estuary</i>	*Jennifer Angel <i>Stable isotope insights into the nursery ecology of juvenile sandbar sharks in Winyah Bay, SC</i>
2:45-3:00	*Gavin Madgett <i>Nutritional quality of surface sediment organic matter in North Inlet Estuary</i>	*Liam Batchelder <i>Nekton community and trophic dynamics across southeastern estuaries with varying salinities</i>
3:00-3:07	Zackary Johnson <i>The Piver's Island Coastal Observatory: >15 years of weekly+ observations reveal the press and pulse of a changing temperate coastal marine system</i>	*Mark Fuchs <i>Fish schooling behavior during the changing of the tides</i>
3:07-3:15	Camilo Rey-Sanchez <i>Water level controls on methane emissions in a restored wetland in coastal North Carolina</i>	<i>Withdrawn</i>
3:15-3:30	*Molly Frattasio <i>Integrating methane emissions into blue carbon budgets of restored tidal marshes in the Chesapeake Bay</i>	Michelle Brodeur <i>Validation of nominated Strategic Habitat Areas in the White Oak and Cape Fear regions</i>
3:30-4:30	AERS Business Meeting	SEERS Business Meeting
4:30-6:30	Poster Session	
6:30-9:30	Banquet (catered on site) and Music!	

SATURDAY, March 21st

*indicates student presentation

Time	Event	
7:30-8:00	Registration and Coffee	
	Room A: Biogeochemistry and Education	Room B: Invertebrates
8:00-8:15	Hans Paerl <i>What's the potential for harmful cyanobacterial bloom proliferation in North Carolina's Albemarle-Pamlico Sound and other freshwater-marine continua?</i>	*Jessie Rivera Lafreniere <i>The influence of localized water quality on eastern oysters (<i>Crassostrea virginica</i>) amidst changing environmental conditions</i>
8:15-8:30	*Mary Kate Rinderle <i>Characterizing phytoplankton dynamics within cyanobacteria-dominated Lake Mattamuskeet, NC</i>	*Jessica Izaguirre <i>Assessing spatiotemporal drivers of oyster restoration performance in Pamlico Sound, North Carolina</i>
8:30-8:37	*Grace Lower <i>Improved understanding of a valuable ecosystem service: analysis of 15 years of oyster-mediated denitrification experiments</i>	*Mic Schulte <i>Examining population trends and parasitism along the expanded range of <i>Petrolisthes armatus</i> in the southeastern U.S.</i>
8:37-8:45	*Ling Ren <i>Advancing harmful algal bloom management: development and performance of North Carolina's statewide reporting system</i>	*Josie Bryan <i>Spatial variation in resource use and species-level trophic niches of white and brown shrimp in Winyah Estuary, SC</i>
8:45-9:00	*Diandre Richie <i>Evaluating long-term coastal resilience: a case study analysis of the North Carolina Resilient Coastal Community program</i>	*Charlotte Bickley <i>Comparing population structure of an invasive parasitic barnacle and its mud crab host</i>
9:00-9:15	Lynn Wilking <i>A novel immobilized algicide for controlling red tide: incorporating a stakeholder-driven communication and engagement strategy to facilitate transition to end-users</i>	*Georgia Atcheson <i>Community succession on living shorelines</i>
9:15-9:30	Break	
	Room A: Education	Room B: Invertebrates
9:30-9:45	Nick Hendrix <i>Applied resource management strategies of artificial reefs and estuarine habitats in North Carolina utilizing side-scan SONAR and multibeam echosounder hydrographic surveys</i>	Gloria Massamba N'Siala <i>Mechanisms of resilience to thermal variability in coastal invertebrate populations</i>
9:45-10:00	Pamela Marcum <i>Applications for long-term estuarine habitat quality monitoring along the South Carolina coast</i>	<i>Withdrawn</i>
10:00-10:07	Quentin Walker <i>A modern and open source Wave Exposure Model (WEMo)</i>	Rachel Brewton <i>Herbivory and population structure of <i>Elysia subornata</i> associated with <i>Caulerpa prolifera</i> in the Indian River Lagoon</i>
10:07-10:15	Alyssa LeClaire <i>Empirical evidence for the performance of natural infrastructure: a web experience</i>	Justin Ridge <i>Utilizing drone-derived metrics to examine oyster reef dynamics in the southeast</i>
10:15-10:30	Kerryanne Newman <i>Evaluating performance of a hybrid living shoreline incorporating eco-positive structural elements</i>	Stephen Skrabal <i>Trace metals in oyster tissues, southeastern North Carolina: current distributions and changes over a decade</i>

10:30-10:45	Break	
	Room A: Restoration	Room B: Invertebrates
10:45-11:00	A. Loren Matthews <i>Using salinity to monitor restoration efforts in an artificially cut estuary in Georgia</i>	Jeffrey Cornwell <i>Nutrient removal on engineered surfaces: denitrification by oyster and biofouling communities</i>
11:00-11:15	Jenny Davis and Dawn York <i>Living with water at the USS North Carolina</i>	Bennett Paradis <i>Summarizing 18 years of monitoring data with multi-model inference to evaluate Pamlico Sound's oyster sanctuaries</i>
11:15-11:22	April Blakeslee <i>If you build it, they will come: parasites as biodiversity surrogates for habitat restoration</i>	Raleigh Hawk <i>Assessing the spatial and analyst variation of oyster reef image classification using UAS-based imagery in South Carolina, USA</i>
11:22-11:30	Ben Fertig <i>The many hats of restoration scientists: a stormwater BMP retrofit implementation case study</i>	Hans Prevost <i>Effects of location and hand harvest of intertidal oyster (<i>Crassostrea virginica</i>) reefs on oyster populations and habitat characteristics</i>
11:30-11:45	Brandon Puckett <i>Where protection meets biodiversity: evaluating performance and tradeoffs in living shorelines</i>	Nathan Hall <i>Negative impacts of raphidophyte algal blooms on eastern oyster (<i>Crassostrea virginica</i>) recruitment</i>
11:45-12:00	Trevyn Toone <i>Incorporating secondary foundation species in coastal restoration</i>	Kristina Flanigan <i>Shellfish leasing as spatial ecology in practice: translating habitat data into management decisions</i>
12:15-1:00	Awards and Closing Remarks	