

UNCW Coastal & Marine October 2017 Science News

A note from the director of CMS, Dr. Martin Posey:

Coastal and marine sciences and the CREST campus have received some significant attention over the past month. Members of the UNC Board of Governors visited CMS and received presentations from the Chancellor, Dean Volety and Dean Vetter describing some of the significant accomplishments achieved by our coastal and marine programs. We hosted several conferences during the past month, including most recently the Global Marine Summit which brought researchers from around the world to discuss issues related to sustainability, resilience, and the blue economy. We have also developed some additional informational brochures targeting professionals and prospective graduate students to complement our existing general information literature. The FAC and CAC are working hard on implementation of the Self Study and we hope to have a proposal on the Coastal and Marine Council at our next coastal and marine science faculty/staff meeting (27 November). Best wishes to everyone as you enter the final weeks of the fall semester!

- Martin

Outreach, Recognitions, & Other Notables

- ◆ Mike Mallin (Center for Marine Science) is the new President-Elect of the North Carolina Lake Management Society.
- ◆ Mike Mallin and grad student Nick Iraola (CMS) were interviewed by [Port City Daily](#) on the problems and solutions for Greenfield Lake water quality.
- ◆ Mike Mallin (CMS) presented “Storm water runoff pollution and protecting our waterways” to the Osher Lifelong Institute on Oct. 19, 2017.
- ◆ Rotenberg’s (Environmental Sciences) research on harpy eagles in Belize was highlighted by the [Star News](#). Photos [here](#).
- ◆ Dr. Craig Bailey (Biology and Marine Biology) hosted the 39th Annual Southeastern Phycological Colloquy on Friday, October 27th and Saturday, October 28th at the Center for Marine Science.
- ◆ Christopher Dumas’ (EVS) work on the economic significance of inlets was featured by the [Star News](#).

Outreach, Recognitions, & Other Notables

- ◆ The Coastal Ocean Research and Monitoring Program (CORMP) has partnered with the Florida Fish and Wildlife Research Institute, Smithsonian Environmental Research Center and Georgia DNR to incorporate acoustic receivers mounted to three CORMP buoys and one bottom frame located in Onslow Bay. This acoustic receiver array will provide these institutions with data to track cobia, sharks, and other tagged fish species that swim within a few hundred meters of the receiver. The first receiver was recently deployed at CORMP's bottom frame known as OB27 located 23 miles off Wrightsville Beach. (Brett Bolton, Chris LaClair, Lynn Leonard; CMS and EOS)
- ◆ The Undersea Vehicles Program spent 29 days in Galveston, Texas during late September and early October. The team spent 79 hours on the bottom with the ROV during 12 operational days. They collected over 7600 still photographs and collected 163 samples while visiting 10 different offshore banks. UVP had the privilege to work with some leading scientist in the field during these cruises including Dr. Mercer Brugler from New York City Tech, Dr. Santiago Herrera from Lehigh University, and Dr. Peter Etnoyer from NOAA's Deep Sea Coral branch. The Flower Garden Banks National Marine Sanctuary gets 30 days of free ROV use every year from UNCW's UVP team in accordance with our MOA together. Please see their Facebook page for highlight images from our trip (Jason White, Eric Glidden, Lance Horn; CMS).
- ◆ UNCW's work on GenX and related compounds was featured in several articles as well as being the subject of a legislative hearing. Researchers from Chemistry and Biochemistry (e.g. Ralph Mead and others), Biology and Marine Biology (e.g. Larry Cahoon), as well as several others from UNCW were referenced. [StarNews article](#). [NC Health News article](#).
- ◆ Pamela Evers (Cameron School of Business) was admitted to [U.S. Supreme Court Bar](#).
- ◆ Narcisa Pricope (EOS), Alina Szmant (CMS), Roger Shew (EOS), and William Hart participated in a [panel discussion](#) about climate change, titled "Mitigation through Education."
- ◆ Roger Shew (EOS) was featured in an [article](#) on the Clean Power Plan and EPA.
- ◆ Brian Arbogast (BMB): Two 5-10 min videos about Wildsumaco Biological Station on Sumaco Volcano, Ecuador have been produced. UNCW is one of the founding partners of WBS, along with Francis Marion University. These videos give an overview of the history of the station and focus on the joint summer courses we taught at WBS in [2015](#) and [2016](#).

Presentations

- ◆ Patricia Kelley (EOS) led a workshop on “Teaching Evolution with Sensitivity and Integrity” and gave a Paleontological Society Distinguished lecture on “Why We Need Conservation Paleobiology: Just Ask Johnny Depp” at University of Texas Austin. She also gave the Conservation Paleobiology talk for Southport Partners for Peace and Justice at Indiana University and Purdue University Indianapolis. At the national Geological Society of America meeting in Seattle, she presented “Training Tomorrow’s Conservation Paleobiologists to Function Effectively in the Conservation World.” This talk was coauthored with former CMS postdoc Greg Dietl and Christy Visaggi (PhD Marine Biology 2012).
- ◆ Joni Backstrom (EVS) was co-author for a poster presentation at the American Wind Energy Association (AWEA) Offshore Windpower 2017 conference in NY, Oct 24-25, 2017: “Environmental Impacts of Offshore Wind Farms - Lessons Learned from European Monitoring.”
- ◆ Roger Shew (EOS) gave several presentations:
 - ◇ Presentation at the North Carolina Society of Engineers Annual Conference, Beaufort, NC; “Energy Issues for NC: Current and Projected Needs and Offshore Volumes/Issues”
 - ◇ Presentation at Climate Solutions for North Carolina forum: “Resource Use, Transition from Fossil Fuels, and Solutions to Climate Change”
 - ◇ Presentation at the Cape Fear Arch Conservation Collaboration Meeting: “Coastal Processes and Stressors on Coastal Ecosystems”
- ◆ Mallin, M.A. and B. Saul. 2017. “Cyanobacterial blooms in the lower Cape Fear River”. U.S. Army Corps of Engineers Sustainable Rivers Workshop, Moncure, NC (CMS)
- ◆ Iraola, N.D., M.A. Mallin, L.B. Cahoon and D. Gamble. 2017 “Combatting eutrophism in Greenfield Lake, North Carolina”. North Carolina Lake Management Society Workshop, Wilmington, NC (CMS, BMB, EOS)
- ◆ Mallin, M.A. 2017. “Rural and urban stormwater pollution and its drivers”. North Carolina Solid Waste Enforcement Officers Association Conference, Wilmington, NC (CMS)
- ◆ Gantt SE, McMurray SE, Stubler AM, Finelli CM, Pawlik JR, Erwin PM. “Microbial symbionts and carbon cycling in Caribbean coral reef sponges”. American Society for Microbiology - North Carolina Branch Annual Meeting, Raleigh, NC (BMB)

Presentations

- ◆ Presentation by MMS student Melissa LaCroce from Freshwater's Marine Phycology Lab (CMS):
 - ◇ LaCroce M.E., Freshwater D.W. & Long Z. 2017. Seasonality and recruitment of the epibenthic community on an Onslow Bay, North Carolina hard bottom. 39th Annual Southeastern Phycological Colloquy, Wilmington, NC, 28 October 2017.
- ◆ Several UNCW faculty and former students presented at the North Carolina Beach Inlet & Waterway Association (NCBIWA) Annual Conference:
 - ◇ James Leutze (Chancellor Emeritus)
 - ◇ Kenneth Riley (former BMB student, now with Habitat Conservation Division, National Marine Fisheries Service Southeast Region)
 - ◇ Jim Herstine, (Health and Applied Human Services, CHHS)

Publications & Grants

- ◆ Alison Taylor and Susanne Brander (BMB), along with co-PIs Wade Watanabe (CMS), Pam Seaton (CHM), Bonnie Monteleone (CHM), and NCSU faculty Tony Andrady received \$298K from the NOAA Marine Debris Program to research the effects of marine plastics on the black sea bass (*Centropristis striata*).
- ◆ Tattersall, G. J., J. A. Chaves and R. M. Danner. 2017. Thermoregulatory windows in Darwin's finches. *Functional Ecology* DOI: 10.1111/1365-2435.12990 (BMB)
- ◆ Myrina Boulais, Kyle John Chenevert, Ashley Taylor Demey, Elizabeth S. Darrow, Madison Raine Robison, John Park Roberts & Aswani Volety "Oyster reproduction is compromised by acidification experienced seasonally in coastal regions"; [Scientific Reports](#). October 2017.
 - ◇ Myrina is a postdoctoral researcher working with Dean Volety and several of the other co-authors are undergraduate honors students and BMB graduate students.
- ◆ Laura M. Treible, Kylie A. Pitt, Shannon G. Klein, Robert H. Condon; "Exposure to elevated pCO₂ does not exacerbate reproductive suppression of *Aurelia aurita* jellyfish polyps in low oxygen environments". [Marine Ecology Progress Series](#). (BMB)
 - ◇ This work represents Laura Treible's first dissertation chapter.

CMS & Partners

- ◆ Ebbtide Cafe is now setup with a new app called Tapingo. You place an order via the app, then it notifies you when your order is ready. Several main campus locations already use this technology.
- ◆ The North Carolina Lake Management Society held its meeting at CMS.
- ◆ Members of the Board of Governors visited the CREST campus where they received presentations from the Chancellor, Dean Volety and Dean Vetter describing some of the significant accomplishments achieved by our coastal and marine programs.
- ◆ The 39th Annual Southeastern Phycological Colloquy was held at CMS.
- ◆ MARBIONC is planning a revised proposal to NIIMBL for Workforce Training, in partnership with Alcami in Wilmington NC. The Workforce plan includes GMP/GP classroom work, GMP/GLP laboratory training, and summer internships at UNCW and Alcami.
 - ◇ The program will intercalate with other workforce training program within NIIMBL's reach of the Eastern Seaboard. UNCW faculty and Alcami members are involved in delivery of the program. We anticipate a December submission.
- ◆ From MarineQuest:
 - ◇ MarineQuest has opened registration for summer 2018! Our website is up to date with pricing, program offerings, and information. That being said we are beginning the process of identifying faculty interested in collaborating with our capstone program, Oceans 17, and other programing. Any interested faculty or researchers are more than welcome to contact me at morane@uncw.edu. We love working with faculty for 1-2 hour outreach activities up to multi day research objectives highlighting the marine science done in the labs at UNCW.
 - ◇ MarineQuest will also be participating in the Wilmington Holiday parade with a float. We are looking for colorful plastic bags and old, but still functioning, strings of lights.
 - ◇ This year, as you know, we will be hosting the Blue Heron Bowl. The MarineQuest team and Dr. Jessie Jarvis will be coordinating the event. In preparation we are looking for sponsors and volunteers. Faculty, staff, and students interested in volunteering should fill out the form [here](#).

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The content of this publication was created by the UNCW Center for Marine Science.

Questions? Contact blizzardb@uncw.edu.