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

As another academic semester draws to a close, it’s worth noting the many accomplishments we have had: after a very thoughtful process we established guidelines for a new Coastal and Marine Council that will have its first meeting in a few weeks; we are moving forward with other recommendations from last year’s self-study; we had a very successful open house along with hosting numerous other meetings over the course of the year; we have been able to take care of some important infrastructure needs thanks to assistance from the College of Arts and Sciences Dean’s Office; we are expanding the courses that are making use of the CREST campus facilities; we have had numerous tours of the facilities for folks ranging from UNC administration, legislative representatives, and regional leaders, to community members and student groups; and most importantly we have had another excellent year of research productivity as evidenced by grants, publications, and presentations; extensive involvement of students in hands-on research; and service to the profession and region. Thanks to everyone!!

- Martin

Outreach, Recognitions, & Other Notables

- Jay Styron (CMS), Ami Wilbur (Shellfish Research Hatchery and Biology and Marine Biology), Troy Alphin (CMS and BMB), and SRH students / technicians were mentioned in a Coastwatch magazine article on mariculture.

- Ralph Mead (Chemistry and Biochemistry) has been appointed as an Associate Editor for the journal Marine Chemistry as well as the journal Estuarine, Coastal and Shelf Sciences.

- 2018 Oyster spawning season opened March 14 at the Shellfish Research Hatchery with the production of 11 million Cedar Island embryos. This is part of their larger effort to develop broodstock for the North Carolina oyster mariculture industry.

- UNCW oysters from the SRH were enjoyed at the North Carolina Aquaculture Development Conference in New Bern and at the UNC Board of Governors meeting at the Center for Marine Science.

- Martin Posey was inducted into the Order of Isaac Bear.
Outreach, Recognitions, & Other Notables

- Wilson Freshwater (CMS) will be co-teaching a course on marine botany at the Friday Harbor Laboratories this summer, “Barcoding Seaweeds: the Intersection of Teaching and Research.”
- Roger Shew (Earth and Ocean Sciences) appeared on WHQR Coastline (March 9th) – this time, unlike Feb appearance on offshore oil and gas, the show was a discussion of Renewable Energy onshore and offshore.
  - Roger was previously a guest on WHQR Coastline February 15th: Offshore Energy and Seismic Issues.
- Roger Shew (EOS) was interviewed on Spectrum News for information on Venus Flytraps to discuss the prey/pollinator studies recently published as well as resiliency studies.
- Roger Shew (EOS) was interviewed for UNCW’s TEALTV for a discussion of Beach Renourishment Benefits and Issues.
- Dean Volety’s (CAS) work examining impacts of GenX on oysters was highlighted in a feature on WECT news.
- As part of a program directed by Chris Dumas (Environmental Sciences) hundreds of households have responded to a survey examining the household economic impact of GenX.
- Larry Cahoon (BMB) was interviewed regarding potential impacts of a proposed new industrial plant permit.
- UNCW’s Marine Mammal Stranding team (BMB) was featured in a WTKR article on a stranded dolphin found washed up on Nags Head.
- Jay Styron (CMS) was interviewed regarding the state of the oyster fishery.
- Pam Seaton and Bonnie Monteleone (CHEM) were interview on their work with offshore plastics impacts.
- Fifth-graders at Morehead City Elementary School studied the negative impacts of the nets, known as ghost nets, during “Ghost Net Busters,” a program presented by UNC Wilmington MarineQuest.
- Jessica Gray (MS Coastal and Ocean Policy) was interviewed regarding the NC Coastal Federation Ambassador Program.
Presentations

♦ Roger Shew (EOS):
  ◊ Roger Shew presented to the Bald Head Island Conservancy: Coast to Offshore Energy Resources and Issues.
  ◊ Roger Shew participated in Navassa Superfund Site discussions on remedial investigations for possible use/development of superfund site post-cleanup.
  ◊ Conference talk on “Venus Flytraps (Dionaea muscipula): Monitoring Studies (Fire, Poaching, Numbers of Plants) at the Green Swamp Preserve” at the Cooperative Ecosystem Study Units (CESU) Southeast Regional Conference
  ◊ Guest speaker (Talk on Offshore Energy) at the St. James 9th Annual Oyster Roast Dinner Celebration. This event was attended by over 120 St. James residents and residents from surrounding Brunswick County areas. Students in the benthic ecology laboratory (Martin Posey and Troy Alphin) presented posters and described ongoing work related to living shorelines and wetlands.

♦ Patricia Kelley (EOS) - Presentations related to her distinction as Paleontological Society Distinguished Lecturer:
  ◊ Keynote speaker at the 7th Biennial Symposium sponsored by the University of Alberta Paleontological Society. “Why we need Conservation Paleobiology: Just ask Johnny Depp.”
  ◊ North Carolina Fossil Club in Raleigh on “The arms race from a snail’s perspective: evolution of the naticid gastropod predator-prey system.” She also spoke on that topic at the University of Pennsylvania Geology Colloquium.
  ◊ Bryn Mawr College on “Evolution and Creation: Conflicting or Compatible?”

♦ Mike Mallin (CMS): “The hidden impacts of phosphorus loading to streams and rivers” - Water Resources Research Institute Annual Conference, Raleigh, NC.


♦ Chris Dumas (EVS):
  ◊ “The future of fish” - NC Catch presentation.
Presentations

- Shellfish Research Hatchery / Ami Wilbur:
  - Ami Wilbur (SRH and BMB) presented an update on Shellfish Research at UNCW to the Joint Legislative Oversight Committee on Agriculture and Natural and Economic Resources in Pine Knoll Shores.
  - Wilbur Lab members traveled to Seattle to attend the 110th National Shellfisheries Association meetings:
    - Dr. Robin Varney (SRH post-doc) gave a talk entitled “Comparison of Genetic variation and inbreeding among three lines of hatchery-reared Crassostrea virginica broodstock” and presented a poster “Prevalence and intensity of three oyster parasites (Perkinsus marinus, Haplosporidium nelsoni and Bonamia sp.) in wild and cultured oysters (Crassostrea virginica) on an oyster farm in southeastern North Carolina.”
    - Johanna Woods (MSMB) presented a poster entitled “The effect of gear type and management strategy on the acquisition of parasites by cultured oysters (Crassostrea virginica).”
    - Grant Diedrich (MSMB) presented a poster entitled “Effect of cage type on parasitic Polydora sp. infestation of the eastern oyster Crassostrea virginica.”
    - Brittany Wolfe (MSMB) presented a poster “Effects of reduced pH on growth and chromosome loss in tetraploid oysters Crassostrea virginica.”
    - Dr. Ami Wilbur was a coauthor on another presentation “Commercial scale comparison of selected water column oyster gear types and native oyster strains developed for the North Carolina industry.”

- Frank Marshall, UNCW Honors Student, and Mark Moore, EOS graduate student (both working with Lynn Leonard), presented their research on living shoreline design at the 2018 Southeastern Estuarine Research Society spring meeting in St. Augustine, Florida.
  - Mark Moore, EOS graduate student, participated in the 2nd National Living Shorelines Technology Transfer Workshop held in Oakland CA.
Presentations

- The Navassa Team (Kristen Brogdon, Kimberly Faxon, Colleen Reilly, Roger Shew, and Stephanie Smith) gave a talk at the Conference on Applied Learning in Higher Education (held at UNCW). The Talk/Abstract was: “Collaborations between the University of North Carolina Wilmington and the Town of Navassa as part of the EPA CUPP Program.”

Publications & Grants

- Christopher Dumas (EVS), The economic impacts of North Carolina Inland Fisheries, NC Wildlife Resources Commission, $16,089.
- Joseph Covi (BMB), Biochemical regulation of dormancy and resurrection from dormancy in the Anarctic copepod, Boekella poppei, Korea Polar Research Institute, $359.
- Jeffrey Hill, Christopher Dumas, Alexia Franzidis, Huili Hao, James Herstine (EVS, CHHS). Understanding Access and Visitor Use on North Carolina's Coastal Reserve System. NCDENR Division of Coastal Management. $55,612.
- Heather Koopman, Alex Costidis, William McLellan, Anne Pabst, David Rotstein, Andrew Westgate (BMB). Lipid composition and nitrogen solubility of the spinal cord and brain: comparisons between diving animals and terrestrial animals to provide insight into Type II DCS. DOD Office of Naval Research. $50,128.
- Catharina Alves de Souza, Carmelo Thomas (MARBIONC), CSBR: Living Stock: Enhancement to the operation and accessibility of the Algal Resources Collection. NSF. $183,611.00.
Publications & Grants

- 2017-2018 Pilot Projects funded based on recommendations of the Faculty Advisory Committee:

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<td>Wang, Ying; Liao, Shu-Yu</td>
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CMS & Partners

- Coastal and Marine Council Elections/Results
  - 5 departmental reps: Fred Scharf (Biology and Marine Biology), Lynn Leonard (EOS), Fred Bingham (Physics and Physical Oceanography), Devon Eulie (EVS), Brooks Avery (Chemistry and Biochemistry)
  - 5 At-large reps: Andrea Hawkes, Jessie Jarvis, Stephanie Kamel, Chad Lane, Till Wagner
  - 1 Affiliated department rep: Jennifer McCall (Nursing)
  - 2 Non-tenure reps: Troy Alphin, Mike Mallin
  - 2 staff reps: Bryan Toothman and Rob Whitehead
  - 2 Chair reps: Doug Gamble and Heather Koopman
  - Ex-officio: Martin Posey (Director of CMS), Anne Beach (Business Officer for CREST campus), Jay Styron (Assistant Director for Marine Operations), Ami Wilbur (Director Shellfish Research Hatchery), Dan Baden (Director MARBIONC), Wade Watanabe (Director, Finfish Aquaculture Facility), Steve Skrabal (Associate Director for Education)
CMS & Partners

- CMS hosted a reception for the UNC Central Office and UNC Board of Governors. There were over 175 invitees and attendees were treated to an oyster roast, numerous student poster presentations, music, and tours of the facilities. Thanks to everyone who helped make this event a great success!
- Beth Darrow received an equipment grant from the Friends of UNCW to purchase a current meter (tilt meter) that is appropriate to use in very shallow water/intertidal areas. It will be able to log current speed and direction data for up to a few weeks at a time. This will be available for student projects starting in August – please contact her directly if you have a student who needs to use it.
- The CMS Graduate Student Poster session will be held on April 20th from 4pm-6pm.
- You are invited to join SECOORA in Charleston, South Carolina for the SECOORA 2018 Annual Meeting, May 22-24. Learn more about coastal ocean observing and the blue economy. Discuss opportunities for SECOORA and participate in the coastal observing conversation. Attached and below is more information. All are welcome to attend.
  ◊ REGISTER: Click here to register for the meeting. Deadline is May 5, 2018.
  ◊ WEBSITE: Click here to see meeting website. More information (including agenda) will be posted as it becomes available.

Mike Mallin’s Estuarine Biology course field trip:
Board of Governors Reception