FORT JOHNSON SUMMER UNDERGRADUATE RESEARCH PROGRAM
~ COLLOQUIUM ~
RESILIENCE AND RESPONSE OF MARINE ORGANISMS TO ENVIRONMENTAL CHANGE

Wednesday, August 8, 2018
SCDNR Marine Resources Research Institute Auditorium (across from Grice Marine Lab)

1:00    INTRODUCTORY REMARKS

1:10    Connor Graham (Francis Marion U.). Determinants of benthic microalgal community structure in South Carolina salt marshes.  **Mentors:** Craig Plante, PhD and Kristina Hill-Spanik, MS (CoF)

1:25    Nicole Doran (The Ohio State U.). The effect of salinity on growth in male and female juvenile blue crabs (*Callinectes sapidus*). **Mentor:** Michael Kendrick, PhD (SCDNR)

1:40    Ben Farmer (U. of Kentucky). tRNA usage profiles as a function of salinity in the haloarchaea. **Mentor:** Matthew Rhodes, PhD (CoF)

1:55    Lauren Rodgers (Rutgers U.). Variation in iron abundance in the estuaries of Charleston: A preliminary study of Zetaproteobacteria. **Mentor:** Heather Fullerton, PhD (CoF)

2:10    Jaclyn Caruso (Salem State U.). Effects of preservatives used in personal care products on the larval development and growth of the sea urchin *Arbacia punctulata*. **Mentor:** Robert Podolsky, PhD (CoF)

2:25-2:45  BREAK

2:45    Nicholas Partington (St. Olaf College). Biodiversity of fishes associated with the invasive alga *Gracilaria vermiculophylla* in an estuarine ecosystem. **Mentors:** Tony Harold, PhD & Mary Ann Taylor (CoF)

3:00    Kaylie Anne Costa (U. of Miami). A lipidomics approach to cold stress syndrome in the Florida manatee (*Trichechus manatus latirostris*). **Mentors:** Michael Napolitano, PhD (SCDNR) & John Bowden, PhD (NIST)

3:15    Cheldina Jean (American U.). Multi-stressor effects of ultraviolet light, temperature, and salinity on the toxicity of Deepwater Horizon oil to larval grass shrimp (*Palaemonetes pugio*). **Mentors:** Marie DeLorenzo, PhD & Katy Chung, MS (NOAA)

3:30    Samera Mulatu (Georgia Southern U.). Use of the eastern mudsnail (*Tritia obsoleta*) to detect harmful chemicals in Charleston Harbor through expression of imposex. **Mentor:** Demetri Spyropoulos, PhD (MUSC)

3:45    Kelly Townsend (Elmhurst College). Testing the quality and stability of RNA and protein in a 13-consecutive-year frozen archive of blood of the loggerhead sea turtle, *Caretta caretta*. **Mentors:** Jennifer Lynch, PhD, Jennifer Ness, MS & Jennifer Trevillian, MS (NIST)

5:00    DINNER (provided for interns, mentors, and GML support staff)

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