

# FORT JOHNSON SUMMER UNDERGRADUATE RESEARCH PROGRAM ~ COLLOQUIUM ~

## RESILIENCE AND RESPONSE OF MARINE ORGANISMS TO ENVIRONMENTAL CHANGE

Wednesday, August 7, 2019

SCDNR Marine Resources Research Institute Auditorium (across from Grice Marine Lab)

### 9:00 INTRODUCTORY REMARKS

- 9:10 **Katherine Mateos** (Carleton College). Sulfur metabolism by the Antarctic bacterium *Shewanella* sp. BF02 and the production of volatile organic sulfur compounds. *Mentor*: Dr. Peter Lee (CofC)
- 9:25 **Ana Silverio** (U. of Texas at Austin). Diversity and abundance of early life history stages of fishes living in association with the invasive benthic red alga *Gracilaria vermiculophylla*. *Mentor*: Dr. Tony Harold & Mary Ann McBrayer (CofC)
- 9:40 **Jordan Penn** (Millersville U.). Exploring the potential relationships between octocoral gardens, substrate type, and depth. *Mentor*: Dr. Peter Etnoyer (NOAA)
- 9:55 **Pressley Wilson** (U. of South Carolina Aiken). Analyzing the relationship between the macroalgae microbiome and algal species in One'ula Beach, Hawai'i. *Mentor*: Dr. Heather Fullerton (CofC)
- 10:10 **Lilia Garcia** (Illinois Wesleyan U.). *Vibrio*: *Gracilaria*'s invisible neighbors. *Mentor*: Dr. Erik Sotka (CofC)

### 10:25-10:45 BREAK

- 10:45 **Samuel Daughenbaugh** (DePauw U.). Effects of three phthalate compounds on the early development of the sea urchin *Arbacia punctulata*. *Mentor*: Dr. Robert Podolsky (CofC)
- 11:00 **Carolina Rios** (New York U.). Quantifying the effects of PCBs on marine invertebrates: Validation of a dose-response model. *Mentors*: Dr. Ed Wirth and Dr. Paul Pennington (NOAA)
- 11:15 **Kelsey Coates** (Duquesne U.). Establishing the tools for the evaluation of RXR isoform expression in *Tritia obsoleta* under environmental and experimental conditions. *Mentors*: Dr. Demetri Spyropoulos (MUSC) & Edwina Mathis (CofC)
- 11:30 **Jackson Eberwein** (Sonoma State U.). Proteomic analysis of domoic acid toxicosis in California sea lions by tandem mass spectrometry. *Mentors*: Dr. Mike Janech (CofC) and Dr. Ben Neely (NIST)
- 11:45 **Julianna Duran** (Virginia Polytechnic Institute). Effect of pansteatitis on the fatty acid profiles of Nile Crocodile and Mozambique Tilapia. *Mentor*: Dr. Michael Napolitano (NOAA)

### 12:00 LUNCH (provided for interns, family, mentors, and GML support staff)

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