

Opening: CMS and Lohman Auditorium

9:00 a.m.-9:55 a.m.	Registration and breakfast
10:00 a.m.-10:05 a.m.	Welcome remarks
10:05 a.m.-10:35 a.m.	Keynote address: Prof. Michelle Gaither : “Environmental DNA: the new frontier in marine biomonitoring”
10:35 a.m.-10:50 a.m.	Fifteen-minute break

Full Talks: Lohman Auditorium

10:50 a.m.-11:00 a.m.	Talk 1 (Emily Skinner) : “Examining population structure of hawksbill sea turtle (<i>Eretmochelys imbricata</i>) foraging aggregations in St. Croix, US Virgin Islands”
11:00 a.m.-11:10 a.m.	Talk 2 (Aileen Lavelle) : “Predictors of recreational vessel speeds within the Sea Turtle Protection Zone, Palm Beach County, Florida.”
11:10 a.m.-11:20 a.m.	Talk 3 (Zihao Huang) : “Flow sensing in dynamic flow patterns”
11:20 a.m.-11:30 a.m.	Talk 4 (Anthony Mirabito) : “Exploring the properties of organo-mineral complexes across coastal wetland soils”
11:30 a.m.-11:40 a.m.	Talk 5 (Ana Isabel Lopez Cacacho) : “Decoding the Bella moth (<i>Utetheisa ornatix</i>) detoxification and sequestration of <i>Crotalaria spectabilis</i> secondary metabolites”
11:40 a.m.-11:50 a.m.	Talk 6 (Christina Watkins) : “How living inside of other insects shapes wasp evolution- linking convergent parasitoid (Hymenoptera: Braconidae) traits with host use”
11:50 a.m.- 12:50 p.m.	Lunch
12:50 a.m.-1:00 p.m.	Talk 7 (Carrie Foelber Holmes) : “Piezo-like chemosensory responses in <i>Nematostella vectensis</i> ”
1:00 p.m.-1:10 p.m.	Talk 8 (Sofia Almodovar Montero) : “The potential speciation of the <i>Chondrosia</i> sea sponge”
1:10 p.m.-1:20 p.m.	Talk 9 (Raul Chavarria) : “How two comb jellies may reveal the secrets of regeneration”
1:20 p.m.-1:30 p.m.	Talk 10 (Lucas Guttieres) : “The Cadherin-Catenin adhesion complex predates the diversification of extant animals”
1:30 p.m.-1:40 p.m.	Talk 11 (Lisa Coe) : “Ocean literacy knowledge in non-formal education”
1:40 p.m.-1:55 p.m.	Fifteen-minute break and voting

Lightning Talks: Lohman Auditorium

1:55 p.m.-2:00 p.m.	Lightning Talk 1 (Claire Gabe) : “ <i>Nematostella vectensis</i> : a model for exploring biomineralization processes”
2:00 p.m.-2:05 p.m.	Lightning Talk 2 (Charlotte Kahn) : “Migration of gastrodermal cells to the mesoglea in <i>Cassiopea sp.</i> polyps”

2:05 p.m.-2:10 p.m.	Lightning Talk 3 (Mandy Game): “Unraveling photoreceptor cell differentiation in Panarthropoda with tardigrades and firebrats”
2:10 p.m.-2:15 p.m.	Lightning Talk 4 (Makayla Rutski): “Genetic variation of <i>Cronartium quercuum</i> f. <i>sp. fusiforme</i> in the southeastern United States”
2:15 p.m.-2:20 p.m.	Lightning Talk 5 (Anisa Khalid): “Florida's native blueberry species are critical genetic resources”
2:20 p.m.-2:25 p.m.	Lightning Talk 6 (Dylan Clark): “Accelerating blueberry breeding”
2:25 p.m.-2:30 p.m.	Lightning Talk 7 (Harrison Hobbs): “Investigating the drivers of seagrass recovery in Mosquito Lagoon, FL”
2:30 p.m.-2:35 p.m.	Lightning Talk 8 (Taryn Chaya): “Leveraging coastal wetland impoundments to treat eutrophic waters”
2:35 p.m.-2:40 p.m.	Lightning Talk 9 (Felipe Quintana): “Analysis of the algicidal properties of synthetic roseobacticides”
2:40 p.m.-3:00 p.m.	Break and voting

Poster session: Upstairs Classroom

3:00 p.m.-3:45 p.m. | Poster Session and voting

- 1- **Alyson Wisnionski:** Comparative life-history traits of the whitespotted (*Aetobatus narinari*) and ocellated eagle ray (*Aetobatus ocellatus*)
- 2- **Isabella Cioffi:** PFAS in Florida fish
- 3- **Madyson D'Espies:** Unseen hours: nocturnal foraging of dolphins around a fishing vessel in Crystal River, Florida
- 4- **Paul Grau Jr & Michael Priore:** Towards developing multi-modal underwater robotic perception
- 5- **Erik L.J.E. Broemsen, Lisa S.Y. Coe, Carolina Deupi, Ariana Lane, Allyson Underhill, Alex Webster & Bryndan Durham:** Microbial life in the ocean: immersing undergraduate studies in authentic science
- 6- **Faith Boutte:** Optimization of a liquid broth antimicrobial screening assay for marine microbial natural products drug discovery
- 7- **Caroline Anderson & Xavier Sahajpal:** Ribosome reconstitution
- 8- **Ariana Lane:** Revision of sea urchin genus *Heterocentrotus*
- 9- **Felix Bonventre:** Investigating empty spiracles in tardigrades to test the homology of heads across Panarthropoda
- 10- **Priya Tomerlin:** Investigating the ERK/MAPK signaling pathway in *Capitella teleta* regeneration
- 11- **Natalia Padillo:** Single-cell reconstruction cell type specification in a comb jelly
- 12- **Chadrick Penalosa:** Does the AUX22 gene regulate nodulation in peanut (*Arachis hypogaea*)?

Awards and Laboratory Tours

3:45 p.m.-4:00 p.m. | Fifteen minute break
4:00 p.m.-4:10 p.m. | Awards

9th Annual Science by the Shore Symposium



4:10 p.m.-4:30 p.m.

Laboratory Tour