



**13<sup>th</sup> Biennial Feng Graduate Research Colloquium**  
**Tuesday, May 18th 2021**  
**University of Connecticut, Department of Marine Sciences**

**8:00am: Opening remarks by Hans Dam**

**Oral Session I: 8:15-9:30am**

Moderator: Kelly McGarry

Time	Presenter	Title
8:15-8:30	Monica Garity	Carbon isotope evidence for Atlantic Meridional Overturning Circulation (AMOC) weakening during each deglaciation of the past 150,000 years
8:30-8:45	Patricia Myer	Influence of temperature, salinity, and DOC on methylmercury uptake into a heterotrophic marine dinoflagellate
8:45-9:00	Hannah Collins	Effects of microfibers on the gut microbiome and gut tissue of the blue mussel, <i>Mytilus edulis</i>
9:00-9:15	Michael Mathuri	Concentration-dependence of nitrogen isotope fractionation during ammonium assimilation by marine phytoplankton
9:15-9:30	Christina Menniti	Assessing the importance of variability in oxygen concentrations and horizontal fluxes in Western Long Island Sound

15 minute break-grab another cup of coffee, give your pet some attention!

**Oral Session II: 9:45-11:00am**

Moderator: Hannah Collins

Time	Presenter	Title
9:45-10:00	Wesley Huffman	Effectiveness of two salt marsh grass species on the trapping and transfer of mercury from highly polluted sediments
10:00-10:15	Ewaldo Leitao	Allelopathic effects on the toxigenic dinoflagellate, <i>Alexandrium catenella</i> , are dampened under combined warming and acidification
10:15-10:30	Kelly McGarry	Parameterizing sediment fluxes for a regional carbonate system model
10:30-10:45	Lucas Jones	Using low coverage, whole genome sequencing to study sand lance population connectivity in the Northwest Atlantic
10:45-11:00	Kayla Mladinich	Selective ingestion and egestion of microplastics in the blue mussel, <i>Mytilus edulis</i> , and eastern oyster, <i>Crassostrea virginica</i>

15 minute break- get up, stretch, walk around!

**Poster Session I: 11:15-12:15pm** Moderator: Tyler Griffin

<b>Presenter</b>	<b>Title</b>
Gunnar Hansen	Patterns of bioaccumulation of mercury and methylmercury in ribbed mussels ( <i>Geukensia demissa</i> ) from Mumford Cove and Hackensack River
Annette Carlson	Assessing drivers of oxygen dynamics in the Southern Benguela Upwelling System
David Riser	Quantifying the spatial distribution of Black Sea Bass in Long Island Sound
Lingjie Zhou	Estimating phytoplankton carbon biomass using DNA
Anna lisa Mudahy	Improving the quantification of in situ water column respiration in Western Long Island Sound
Mathew Holmes-Hackerd	The effects of naupliar-stage heat stress on respiration through development in <i>Acartia tonsa</i>
Felipe Porto	Inference of transcriptional regulators reveals genome-wide regulatory relationships in symbiodinacean dinoflagellates
Mackenzie Blanus	A CMIP6 multimodal analysis of ocean heat content using scalable and efficient open-source software
Melissa Wojcicki	DNA metabarcoding of juvenile Black Sea Bass diets in a coastal estuary, Long Island Sound, Northwest Atlantic

**LUNCH: 12:15-1:00**

**Oral Session III: 1:00-2:15pm** Moderator: Michael Mathuri

<b>Time</b>	<b>Presenter</b>	<b>Title</b>
1:00-1:15	Halle Berger	Harmful algal blooms and ocean acidification: Defining a research agenda
1:15-1:30	Lauren Barrett	Over-specification of the inorganic carbon system in Long Island Sound
1:30-1:45	Peter Ruffino	Decomposition and fate of nitrogen contained in biodebris deposited to coastal sediments: An oyster effect or not
1:45-2:00	Samantha Linhardt	Consumer pressure interacts with recruitment to shape the effects of an intertidal foundation species at local and regional scales
2:00-2:15	Molly James	Signatures of marsh grass flooding on tidal channels in New England marsh systems

15 minute break: time for that afternoon caffeine!

**Oral Session IV: 2:30-3:45pm**

Moderator: Lauren Barrett

Time	Presenter	Title
2:30-2:45	Emma Shipley	Development and testing of two polymers for <i>in situ</i> passive sampling of munitions compounds
2:45-3:00	Jo-Marie Kasinak	Stratford Point Living Shoreline: Assessing carbon sequestration and fish use
3:00-3:15	Mengyang Zhou	Effects of mesoscale eddies on the contribution of N <sub>2</sub> fixation to export production in the North Pacific Subtropical Gyre
3:15-3:30	Tyler Griffin	A method to perturb the gut microbiome of the blue mussel ( <i>Mytilus edulis</i> ) with antibiotics
3:30-3:45	Sean Ryan	Latitudinal variation in constitutive and inducible defenses of a fucoid alga

**Poster Session II: 3:45-4:45pm**

Moderator: Gunnar Hansen

Presenter	Title
Yipeng He	Inter-cruise comparison of mercury air-sea exchange in the Pacific Ocean
John Speers	The effect of sea-level rise on flooding statistics in the Barn Island marsh
Kelli Mosca	Growth and seasonal movement of Atlantic sturgeon in the Connecticut River
James deMayo	Sex influences gene expression for copepods adapted to climate change
Hannah Inman	Mercury speciation and air-sea gas exchange in the Arctic Ocean
Max Zavell	Questions and opportunities arising from the recent, rapid increase in Black Sea Bass abundance in Long Island Sound
Josiah Grzywacz	Investigating chloroplast performance in a mixotrophic ciliate using FIRE (Fluorescent Induction and Relaxation)
Mary McGuinness	Alkalinity of Long Island Sound embayments

**4:45pm: Closing remarks by Evan Ward in Wonder Room****5:00pm: Virtual Happy Hour in Wonder Room**