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RHODE ISLAND CONSORTIUM FOR Coastal Ecology Assessment Innovation & Modeling

2022 RI NSF EPSCoR Annual Symposium
RI Consortium for Coastal Ecology Assessment, Innovation and Modeling

Poster Presentations
Fascitelli Center for Advanced Engineering
Room 040

Session A (1-2pm)

A1	**Timo Küster**	*Structural assessment of self-assembled cationic monolayers on gold nanopillars in the presence of nitrate through surface enhanced Raman spectroscopy*
A2	**Robert Zamoida**	*Specific or generic? Using bioinformatics and ocean metagenomic databases to select primers that best reflect plankton community composition.*
A3	**Robert Chevalier**	*Improving the selectivity and performance of Surface-Enhanced Raman Spectroscopy (SERS) substrates for nitrite detection*
A4	**Katherine Bell**	*Seasonal hypoxia impacts nutrient fluxes and microbial communities in Narragansett Bay sediments*
A5	**Faith Brown**	*Characterization of bacteriophage diversity in Narragansett Bay, RI during a winter-spring algal bloom*
A6	**Matt Sprague**	*Early results from long-range acoustic geolocalization by miniature environmental tags*
A7	**Cinthia Santos Gil**	*Academic success and perception of academic success differences amongst students with visible and non-visible disabilities*
A8	**Hannah Cameron**	*Staging of the channeled whelk (Busycotypus canaliculatus) female gonads using gross and histological evaluations*
A9	**Jack Lawrence**	*Validating OSOM modeling for Rhode Island Sound*

A10	**Jason Schaedler** *Building a "Planktoscope" Plankton Imager*
A11	**Matthew Card** *Modifiable spin-coated hydrogel platform for the delineation of analyte interactions on individual single-walled carbon nanotubes*
A12	**Isabella Church** *Temporal and spatial comparison of Pseudo-nitzschia species composition and domoic acid in Narragansett Bay, Rhode Island and the Northeast U.S. Shelf*
A13	**Christopher Powers** *Impacts of sea level rise mitigation efforts on the diversity of the benthic foraminifera of Narragansett Bay*
A14	**Isabel Cote** *Warmer Bay: The impact of increasing temperature on the metabolic rate of fish species*
A15	**Katherine Roche** *Understanding harmful algal blooms of Pseudo-nitzschia in Narragansett Bay, Rhode Island*
A16	**Arin Nelson** *ROMS-OSOM: Data assimilation and forecasting capabilities*

Session B (2-3pm)

B1	**Molida Chan** *Date with Data: Modules for SimpleChartsRI*
B2	**Andrew Kim** *Metabolomics study of shellfish during a Pseudo-nitzschia bloom*
B3	**Pierre Marrec** *Towards a predictive understanding of the planktonic food web on the Northeast US Shelf (NES-LTER): New insights from inter-annual variability and disturbance*
B4	**Rain Fan** *Comparison of Coastal and Regional Ocean Community Model (CROCO) and NCAR-LES in non-hydrostatic simulations*
B5	**Sonia Refulio-Coronado** *The role of income and ethnicity on Rhode Island residents' preferences for water quality on beach use*
B6	**David Ullman** *Coupled circulation/lower trophic level ecosystem modeling of Narragansett Bay*

B7	**Jongsun Kim** *Assessment of a sediment process-based ecosystem model with in-situ benthic flux data in Narragansett Bay*
B8	**Bernard Munge** *Carbon black-gold nanoparticle (CB-AuNP) nanostructured sensor for electrochemical detection of phosphate in seawater samples*
B9	**Monika Poonia** *Organic anion detection with functionalized SERS substrates via coupled electrokinetic preconcentration, analyte capture, and charge transfer*
B10	**Sean Khang** *Once Upon a Data Visualization: Visual datasets for SimpleChartsRI*
B11	**Gabrielle Armin** *Saturating relationship between phytoplankton growth rate and nutrient concentration explained by macromolecular allocation*
B12	**Nicholas Lorenz** *Glycophenotype of Oxyrrhis marina displays truncated surface N-glycans during prolonged starvation*
B13	**Diana Fontaine** *Metabarcoding reveals diatom community composition is temperature dependent in a time series*
B14	**Kate Gilbert** *Synthesis of metal-ion complexes as detectors for nitrate pollutant ions*
B15	**Jack Breen** *Exploring indicator displacement assays for phosphate detection in seawater*
B16	**Tania de Oliveira** *Gold coated carbon black particles for amplification of Surface Enhanced Raman Scattering from analytes*