



Spring online Conference of the
New England Estuarine Research Society
and the
Atlantic Estuarine Research Society

April 27 – 30, 2021

**AERS and NEERS Joint Conference
April 27-30, 2021
Schedule-at-a-glance**

<u>Tuesday April 27th</u>	<u>Wednesday, April 28th</u>
12:00 Meeting begins with brown bag lunch	10:00 Story Corps
12:30 Presidents Welcome	12:00 Break
1:00 Marsh Plants and Animals	12:15 Meeting Hosts Welcome
2:15 Break	12:30 Making Research Impactful
2:30 Coastlines and SLR	2:00 Break
3:45 Break	2:15 Open Water
4:00 Integrative Thinking	3:15 Break
5:30 Trivia night!	3:30 Open Water resumes
	4:15 Adjourn for the day
<u>Thursday, April 29th</u>	<u>Friday, April 30th</u>
12:15 Welcome and announcements: Program Chairs	12:30 Welcome: Meeting Hosts
12:30 Human Impacts	12:45 AERS Election results
1:30 Break	1:00 Keynote address and workshop
1:45 Human Impacts resumes	2:15 Break
3:44 Break	2:30 Science Communication Shark Tank
4:15 Sea Level Rise Affects Us All: A Panel Discussion	3:30 Student awards and concluding remarks
5:15 AERS and NEERS business meetings	3:45 Adjourn
6:00 Happy Hour: "Show and tell"	



AERS and NEERS Joint Conference Spring 2021

Tuesday, April 27 2021

12:00 Log on early for a brown bag lunch together before the meeting, a great opportunity to say hello to colleagues and see who is attending the meeting.

12:30 **Presidents Welcome**
Brett Branco, NEERS President
Ben Fertig, AERS President

Notes: *Lightning* talks are 5-minute talks with 2 minutes for questions; traditional oral is a 12 minute talk with 3 minutes for questions; (S) indicates student presentation eligible for a graduate or undergraduate award: **NEERS** (K) Ketchum Prize for best graduate student oral presentation: (R) Rankin Prize for best undergraduate student oral presentation. **AERS** (G) best graduate presentation and (U) best undergraduate presentation. *presenting author.

Marsh Plants and Animals

Session chair: Jim Vasslides

- 1:00 **(K)Thomas Whaley**
Lightning **GEUKENSIA RECRUITMENT AND POPULATION STRUCTURE IN A NATURAL AND RESTORED MARSH.**
Whaley*, T. (1), B. Freynk (2), C. Zarnoch (2), P. Rafferty (3), J. Willis (3), and M. Alldred (1). (1) Center for Earth and Environmental Science, SUNY Plattsburgh, Plattsburgh, NY; (2) Department of Natural Sciences, Baruch College CUNY, New York, NY; (3) Gateway National Recreation Area, National Park Service, Staten Island, NY
- 1:07 **(R) Samantha Shaw**
Lightning **NUTRIENT ENRICHMENT LOWERS GENETIC DIVERSITY ALTERING COASTAL MARSH STABILITY**
Shaw*, S. (1), M.K. McCormick (2), L. Deegan (3), and T.J. Mozdzer (1). (1) Bryn Mawr College, Bryn Mawr, PA; (2) Smithsonian Environmental Research Center, Edgewater, MD; (3) Woodwell Climate Research Center, Falmouth, MA

- 1:15 **(R) Ahmed Abbas**
LOSS OF SALT MARSH PLANTS DECOUPLES THE MARSH-MUSSEL
MUTUALISM AND REDUCES THE ECOSYSTEM SERVICE OF NITROGEN
REMOVAL
Abbas*, A. (1) A. Cardenas (1), D. LaFond (1), B. Guasaquillo (1), and C. Zarnoch
(1,2). (1) Department of Natural Sciences, Baruch College CUNY, New York, NY; (2)
Biology Program, Graduate Center CUNY, New York, NY
- 1:30 **(R) Logan Wallace Shepard**
META-ANALYSIS OF ECOSYSTEM SERVICES PROVIDED BY *PHRAGMITES*
AUSTRALIS TO THOSE OF NATIVE PLANT SPECIES
Shepard*, L.W.(1), F. Romero (1), J. Weis (2), E. Kiviat (3), and T.J. Mozdzer (1). (1)
Bryn Mawr College, Bryn Mawr, PA; (2) Rutgers University, Newark, NJ; (3)
Hudsonia, Annandale, NY
- 1:45 **(K) Chloe Brownlie**
EFFECTS OF A LARGE-SCALE NATURAL SEDIMENT ADDITION EVENT ON
MACROINVERTEBRATE COMMUNITIES IN A NEW ENGLAND SALT MARSH
Brownlie*, C. (1), G.E. Moore (1), M.C. Tyrrell (2), and R.E. Grizzle (1).
(1)Department of Biological Sciences, University of New Hampshire, Durham, NH;
(2)Waquoit Bay National Estuarine Research Reserve, East Falmouth, MA
- 2:00 **(R) Melissa Herring**
MONITORING CHANGES IN *SPARTINA ALTERNIFLORA* GROWTH ACROSS A
SOUTHERN NEW ENGLAND WATERSHED
Herring*, M. (1,2), A. Besterman (2,3), R. Jakuba (2). (1) Northeastern University,
Boston, MA; (2) Buzzards Bay Coalition, New Bedford, MA; (3) Woodwell Climate
Research Center, Woods Hole, MA
- 2:15 **Break**

Coastlines and SLR

Session chair: Alison Fitzgerald

- 2:30 **(K) Nia Bartolucci**
Lightning (PROPOSED STUDY ON) DETERMINING THE EFFECTS OF THIN-LAYER
PLACEMENT OF SEDIMENT (TLP) ON CARBON AND NITROGEN CYCLING IN
NEW ENGLAND SALT MARSHES.
Bartolucci*, N.N., R.W. Fulweiler. Department of Earth and Environment, Boston
University, Boston, MA
- 2:37 **(K) Sam Dickran**
Lightning TOWARD REMOTE SENSING OF MARSH VULNERABILITY: USING VEGETATION
CHARACTERISTICS TO INDICATE ROOT BIOMASS IN COASTAL WETLANDS OF
LONG ISLAND
Dickran*, S.S., C. Wilkinson, D. Pascucci, S. Serbin and S. Baines. Department of
Ecology and Evolution, Stony Brook University, Stony Brook, NY
- 2:45 **Brianna Fischella**
Lightning THE LATEST TRENDS IN NEW ENGLAND SALT MARSHES: USING NERR
SENTINEL SITE DATA TO INFORM COASTAL WETLAND MANAGEMENT
Fischella*, B.(1), D. Burdick (2), C. Peter (1), K. Raposa (3), M. Tyrrell (4), J. Allen
(4), J. Mora (4) C. Feurt (5), J. Goldstein (5) and L. Crane (5). (1) Great Bay National
Estuarine Research Reserve, Greenland, NH; (2) University of New Hampshire,
Durham, NH; (3) Narragansett Bay National Estuarine Research Reserve, Prudence
Island, RI ; (4) Waquoit Bay National Estuarine Research Reserve, Falmouth, MA; (5)
Wells National Estuarine Research Reserve, Wells, ME.

2:53 **(R) Jack Cerra**
Lightning QUANTIFYING BLUFF EROSION ALONG THE WEST SHORELINE OF BLOCK ISLAND, RHODE ISLAND USING AIRBORNE LIDAR
Cerra*, J. and B.A. Oakley. Environmental Earth Science Eastern Connecticut State University, Windham,CT

3:00 **Alice Besterman**
"RUNNELLING" TOWARD CLIMATE ADAPTATION: ASSESSING A HYDROLOGIC MANAGEMENT STRATEGY FOR SALT MARSHES
Besterman*, A.F. (1,2), R.W. Jakuba (1), L.A. Deegan (2), W. Ferguson (3), D. Brennan (4), J. Costa (5), H.L. Sullivan (2), N.K. Ganju (6). (1) Buzzards Bay Coalition, New Bedford, MA; (2) Woodwell Climate Research Center, Woods Hole, MA; (3) Save the Bay, Providence, RI; (4) Bristol County Mosquito Control Project, Attleboro, MA; (5) Buzzards Bay National Estuary Program, Mattapoisett, MA; (6) Woods Hole Coastal and Marine Science Center, U.S. Geological Survey, Woods Hole, MA

3:15 **(R) Jason Eklund**
VISUALIZING 63 YEARS OF VEGETATION DYNAMICS ON A CONNECTICUT TIDAL MARSH
Eklund*, J.A.M. and R.S. Warren. Connecticut College, New London, CT

3:30 **Katherine A. Castagno**
ESTUARINE SEDIMENTATION MONITORING PROTOCOLS FOR THE HERRING RIVER RESTORATION PROJECT, CAPE COD, MA
Castagno*, K.A. (1,2), M. Borrelli (1,2), T. Smith (3), and F. Peri (2). (1) Center for Coastal Studies, Provincetown, MA; (2) School for the Environment, University of Massachusetts Boston, Boston, MA; (3) Cape Cod National Seashore, Wellfleet, MA

3:45 **Break**

Integrative Thinking

Session chair: Veronica Berounsky

4:00 **Vitalii Sheremet**
Lightning WATER LEVEL MONITORING SYSTEM IN ESTUARIES AND MARSHES BASED ON STOCK ACCELEROMETER LOGGERS FOR PLANT INUNDATION STUDIES AND RESTORATION PLANNING
Sheremet*, V.A. (1) and M.C. Tyrrell (2). (1) Okeanolog, Falmouth, MA; (2) Waquoit Bay National Estuarine Research Reserve, Falmouth, MA

4:07 **April Blakeslee**
Lightning INVASION OF THE BODY SNATCHERS: THE ROLE OF PARASITE INTRODUCTION IN HOST DISTRIBUTION AND RESPONSE TO SALINITY IN INVADED ESTUARIES
Blakeslee, A.M.H. (1) D.L. Pochtar (2), A. E. Fowler (2), C. S. Moore (1), T.S Lee (1), R. B Barnard (1), K.M Swanson (1), L. Lukas (1), M.Ruocchio (1), M.E Torchin (3), A W.Miller (4), G.M Ruiz (4), C.K Tepolt (5).
(1) Biology Department, East Carolina University, Greenville, NC. (2) Department of Environmental Science and Policy, George Mason University, Fairfax, VA. (3) Smithsonian Tropical Research Institute, Panama City, Panama (4) Invasion Ecology Laboratory, Smithsonian Environmental Research Center, Edgewater, MD. (5) Biology Department, Woods Hole Oceanographic Institution, Woods Hole, MA.

- 4:15 **(K) Theresa Davenport**
 RECRUITMENT ENHANCEMENT VARIES BY TAXONOMIC GROUP AND OYSTER REEF HABITAT CHARACTERISTICS
 Davenport*, T.M. (1), A.R. Hughes (1), P.S.E. zu Ermgassen (2), and J.H. Grabowski (1). (1) Marine Science Center, Northeastern University, Nahant, MA; (2) Changing Oceans Group, School of Geosciences, University of Edinburgh, Edinburgh, UK
- 4:30 **Charles Menzie**
 USING A TIERED APPROACH TO DIAGNOSE CAUSES OF BIOLOGICAL IMPAIRMENTS OR DAMAGES IN COASTAL SYSTEMS
 Menzie, C.A., Exponent Inc., Menlo Park, CA
- 4:45 **Justin Lesser**
 UNDERSTANDING THE IMPACT OF ENVIRONMENTAL SETTING ON TEMPORAL AND SPATIAL TROPHIC NICHE VARIABILITY IN PLUM ISLAND ESTUARY, MA
 Lesser*, J.S. (1), R.H. Garritt (2), L.A. Deegan (3), and J.A. Nelson (1). (1) Department of Biology, University of Louisiana at Lafayette, Lafayette, LA; (2) Marine Biological Laboratory, Woods Hole, MA; (3) Woodwell Climate Research Center, Woods Hole, MA
- 5:00 **Larry Spencer**
 THE R. V ALBATROSS, TAXIDERMY, AND THE SAVING OF THE NORTHERN ELEPHANT SEAL
 Spencer, L.T. Plymouth State University, Department of Biological Science, Plymouth State University, Plymouth, NH
- 5:15 **Joseph Luczkovich**
 LINKING FISHING BEHAVIOR AND ECOSYSTEM DYNAMICS USING SOCIAL AND ECOLOGICAL NETWORK MODELS
 Luczkovich*, J.J.(1), J.C. Johnson (2), R.A. Deehr (3), K.J. Hart (4), L. Clough (5), and D. Griffith (6). (1) Department of Biology, East Carolina University, Greenville, NC; (2) Department of Anthropology, University of Florida, Gainesville, FL; (3) The Hutchison School, Memphis, TN; (4) North Carolina Division of Coastal Management, Washington, NC; (5) The National Science Foundation, Wilson Avenue, Arlington, VA; (6) Department of Coastal Sciences, East Carolina University, Greenville, NC
- 5:30 **Trivia night with Walter Berry**

Wednesday, April 28 2021

- 10:00 **Story Corps:** In this fun workshop we will show workshop participants how to make their own StoryCorps recordings, How to download and edit them (if they wish) and how to archive them on the AERS or NEERS StoryCorps Archive (stored in the Folklife center in the US Library of Congress). We will show some examples of already recorded stories with AERS and NEERS members. Workshop participants will come away with the ability to make and archive their own stories for use with CERF 2022 50th anniversary meeting in November 2021.
- 12:00 **Break**

12:15 **Welcome and Announcements:** Meeting Hosts Peter Burn and Mary Alldred

Making Research impactful

Session chair: Walter Berry

- 12:30 **Edward Reiner**
HYDROLOGICAL EVALUATION OF TIDAL RESTRICTIONS AT RUMNEY MARSH
IN REVERE AND SAUGUS, MASSACHUSETTS
Reiner E., US Environmental Protection Agency, Boston, MA
- 12:45 **Cody Carroll**
RESTORING OYSTER REEFS AT CITY ISLAND: A COLLABORATION BETWEEN
THE ACADEMY AND A COMMUNITY
Carroll*, C. and T. Preuss, Hunter College, Bronx, New York
- 1:00 **Stephen Bradley**
INTERSECTION OF ART & ESTUARINE SCIENCE
Bradley*, S.(1), C. Dahlenburg (2), L. Gash (2), and E. Schott (3). (1) University of
Maryland Baltimore County, Catonsville, MD; (2) The National Aquarium in Baltimore,
Baltimore, MD; (3) IMET-University of Maryland Center for Environmental Science,
Baltimore, MD
- 1:15 **Ella Rothermel**
A HABITAT MOSAIC APPROACH TO LIVING SHORELINE DESIGN ALONG THE
URBANIZED SCHUYLKILL RIVER, PHILADELPHIA, PA
Rothermel*, E.R., S. Bouboulis, and J. Moody. Partnership for the Delaware Estuary,
Wilmington, DE
- 1:30 **Justin Hayes**
PATHOGEN TESTING IN NEW YORK HARBOR: HOW COMMUNITY SCIENTISTS
AND STUDENTS CAN HELP TO FILL DATA GAPS IN SEWAGE CONTAMINATION
Hayes*, J.S.(1), C. Roble (1), and R. Buchanan (2). (1) Hudson River Park Trust,
New York, NY; (2) Billion Oyster Project, New York, NY
- 1:45 **Katherine Altamirano**
ENVIRONMENTAL JUSTICE IN THE NARRAGANSETT BAY REGION
Altamirano*, K. and J. Twichell. Narragansett Bay Estuary Program, Providence, RI
- 2:00 **Break**

Open Water

Session chair: Eric Schott

- 2:15 **Anna Lisa Mudahy**
IMPROVING LONG TERM IN SITU WATER COLUMN RESPIRATION
MEASUREMENTS IN WESTERN LONG ISLAND SOUND
Mudahy*, A.L. and C. Tobias. Department of Marine Sciences, University of
Connecticut, Avery Point, CT

- 2:30 **(K) Andrew Robinson**
 INFLUENCES OF TIDE, WIND, AND BATHYMETRY ON EXCHANGE BETWEEN A
 CONSTRICTED-INLET BASIN AND COASTAL BAY THROUGH A COMPLEX
 HARBOR
 Robinson*, A.R. and C.E. Tilburg. School of Marine & Environmental Programs,
 University of New England, Biddeford, ME
- 2:45 **(K) Christina Menniti**
 ASSESSING THE IMPORTANCE OF VARIABILITY IN OXYGEN
 CONCENTRATIONS AND FLUXES IN WESTERN LONG ISLAND SOUND
 Menniti*, C.M., M.M. Whitney, P. Vlahos and J. Vaudrey. Marine Sciences,
 University of Connecticut, Avery Point, CT
- 3:00 **(R) Lydia Pinard**
Lightning COMPARING ATMOSPHERIC AND HYDROLOGICAL FACTORS OF THE GULF
 OF MAINE
 Pinard*, L.M. and C.E. Tilburg. School of Marine & Environmental Programs,
 University of New England, Biddeford, ME
- 3:07 **(K) Zabdriel Roldan Ayala**
Lightning SPATIAL AND TEMPORAL TRENDS IN LONG ISLAND SOUND
 PHYTOPLANKTON COMMUNITY COMPOSITION DURING 2020
 Roldan Ayala*, Z. (1,2), G. Humphries (1,2), S. Angles (2), J. Espinosa (2), M. Brown
 (1,2), M. Ambrosone (2), M. Tzortziou (3), J. Goes (4), and D.I. Greenfield (1,2). (1)
 School of Earth and Environmental Sciences, Queens College, CUNY, Flushing, NY;
 (2) Advanced Science Research Center at the Graduate Center, City University of
 New York (CUNY), New York, NY; (3) City College Center for Discovery and
 Innovation, CUNY, New York, NY; (4) Lamont-Doherty Earth Observatory, Columbia
 University, Palisades, NY
- 3:15 **Break**
- 3:30 **(G) Lena Champlin and Haley Carlton** (co-presenters)
 SPATIAL AND TEMPORAL VARIABILITY OF COASTAL ACIDIFICATION IN A
 EUTROPHIC ESTUARY
 Champlin*, L.K., H. Carlton*, and E.B. Watson. Drexel University and the Academy
 of Natural Sciences, Philadelphia, PA
- 3:45 **Mike Whitney**
 REDUCING HYPOXIA IN AN URBAN ESTUARY DESPITE CLIMATE WARMING
 Whitney*, M.M. and P. Vlahos. Department of Marine Sciences, University of
 Connecticut, Avery Point, CT
- 4:00 **Frontiers in Coastal Nitrogen Research: A Panel Discussion** with Peter Groffman,
 City University of New York, and Anne Giblin, Marine Biological Laboratory, Woods
 Hole, MA

Thursday, April 29 2021

- 12:15 **Welcome and announcements:**
 Program Chairs: Treda Grayson (AERS) and Tay Evans (NEERS)

Human impacts

Session chairs: April Blakeslee and Jim Latimer

- 12:30 **(U) Marissa Kordal**
 ALTERED GAMETOGENESIS GENE EXPRESSION OF THE EASTERN OYSTER
 (CRASSOSTREA VIRGINICA) IN RESPONSE TO PLASTIC EXPOSURE
 Kordal*, M.L. (1) and L. Eierman (2). (1) Department of Biology, SUNY Cortland; (2)
 Department of Biology, SUNY Cortland, NY
- 12:45 **(R) Amelia Hurst**
 LINKING HUMAN ACTIVITIES TO COASTAL WATER QUALITY IN SOUTHERN
 NEW ENGLAND: PAST AND PRESENT
 Hurst*, A.C. Tobias (1), J. Vaudrey (1), E. Ouimet (2), and W. Ouimet (3). University
 of Connecticut, Storrs, CT. Department of (1) Marine Sciences; (2) Anthropology; (3)
 Geoscience and Geography.
- 1:00 **(K) Miguel Rivera**
Lightning SEDIMENT-WATER FLUXES OF ENDOCRINE-DISRUPTING CHEMICALS NEAR
 WASTEWATER DISCHARGE INTO THE TIDAL FRESHWATER POTOMAC RIVER
 Rivera*, M. and G. Foster. Department of Chemistry and Biochemistry, George
 Mason University, Fairfax, VA
- 1:07 **(G) Carissa Hunter**
Lightning POREWATER AND SURFACE WATER ANALYSIS IN THE TIDAL FRESHWATER
 POTOMAC RIVER FOR THE PRESENCE OF PHARMACEUTICAL AND
 PERSONAL CARE PRODUCTS
 Hunter*, C and G. Foster. Department of Chemistry and Biochemistry, George Mason
 University, Fairfax, VA
- 1:14 **(K) Georgie E. Humphries**
Lightning ASSESSING TRENDS IN BACTERIAL ABUNDANCES AND HYPOXIA IN
 WESTERN LONG ISLAND SOUND DURING 2020
 Humphries*, G.E. (1,2), J. Espinosa (1), Z. Roldan Ayala (1,2), S. Angles (1), M.
 Tzortziou (3), J. Goes (4), and D.I. Greenfield (1,2). (1) Advanced Science Research
 Center at the Graduate Center, City University of New York (CUNY), New York, NY;
 (2) School of Earth and Environmental Sciences, Queens College, CUNY, Flushing,
 NY; (3) City College Center for Discovery and Innovation, CUNY, New York, NY; (4)
 Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY
- 1:21 **(K) Christine E. Bruno**
Lightning EXPLORING THE IMPORTANCE OF MICROPLASTIC AS A VECTOR OF METALS
 TO SUSPENSION FEEDERS
 Bruno*, C.E. (1) and W.G. Wallace (2). (1) Earth and Environmental Sciences, The
 Graduate Center, CUNY; (2) Biology Department, College of Staten Island, CUNY,
 Staten Island, NY
- 1:30 **Break**
- 1:45 **(K) Beryl C.M. Kahn**
 ACUTE EFFECTS OF ACIDIFICATION ON SEDIMENT NUTRIENT CYCLING IN
 SHINNECOCK BAY, NY
 Kahn*, B.C.M. (1,2), C. Zarnoch (1,2), A. Lowell (3), and B. Peterson (3). (1) Biology
 Program, Graduate Center CUNY, New York, NY; (2) Department of Natural
 Sciences, Baruch College CUNY, New York, NY; (3) School of Marine and
 Atmospheric Sciences, Stony Brook University, Stony Brook, NY

- 2:00 **Claudia Mazur**
 RATES AND CONTROLS OF DISSIMILATORY IRON REDUCTION IN MARINE
 SEDIMENTS
 Mazur*, C.I.(1) and R.W. Fulweiler (1,2). (1) Department of Earth and Environment,
 Boston University, Boston, MA; (2) Department of Biology, Boston University, Boston,
 MA.
- 2:15 **Laura Lukas**
 BIOLOGICAL INTERACTIONS BETWEEN HOSTS, PARASITES, AND MERCURY
 Lukas*, L.C., A.M.H. Blakeslee, and C.S. Moore. Department of Biology, East
 Carolina University, Greenville, NC
- 2:30 **(R) Audrey Vinton**
 QUANTIFYING MASSACHUSETTS EELGRASS CHANGE, 1994-2017
 Vinton*, A. (1), K. Haviland (2), M. Hayn (3,4), R. Marino (3), and R.W. Howarth (3,4).
 (1) Environment and Sustainability, Cornell University, Ithaca, NY; (2) Department of
 Natural Resources & the Environment, Cornell University, Ithaca, NY; (3) Department
 of Ecology and Evolutionary Biology, Cornell University, Ithaca, NY; (4) Ecosystem
 Center, Marine Biological Laboratory, Woods Hole, MA.
- 2:45 **(R) Tyler Chidsey**
 N₂O EMISSIONS FROM TEMPERATE SEAGRASS MEADOWS ARE HIGHLY
 VARIABLE
 Chidsey*, T.(1,2), A.N. Al-Haj (1), and R.W. Fulweiler (1,2). (1) Department of Earth
 and Environment, Boston University, Boston, MA; (2) Department of Biology, Boston
 University, Boston, MA
- 3:00 **Agnes Mittermayr**
 USING EELGRASS AS BIO-INDICATOR FOR NITROGEN LOADING IN GREAT
 BAY, NH
 Mittermayr*, A. (1), B. Legare (1), and H. Plaisted (2). (1) Center for Coastal Studies,
 Provincetown, MA; (2) Northeast Coastal and Barrier Network, Interior Region 1,
 Cape Cod National Seashore, Wellfleet, MA
- 3:15 **(U) Katelyn Beisert**
 THE IMPACTS OF HURRICANE FLORENCE ON SOUTHEASTERN NORTH
 CAROLINA SEAGRASS MEADOWS
 Beisert*, K.H. (1), B. Puckett (2), J. Kenworthy (3), and J. Jarvis (4). (1) The
 University of North Carolina Wilmington, NC; (2) North Carolina National Estuarine
 Research Reserve; (3) The University of North Carolina Wilmington, NC ; (4)
 Department of Biology and Marine Biology, The University of North Carolina
 Wilmington, NC
- 3:37 **(R) Brandon Lenberger**
Lighting ASSESSING THE NUTRIENT-REMOVAL POTENTIAL OF FLOATING TREATMENT
 WETLANDS IN A MESOCOSM FIELD EXPERIMENT
 Lenberger*, B and M. Alldred. Center for Earth and Environmental Sciences, SUNY
 Plattsburgh, Plattsburgh, NY

- 3:44 **Eric Mazur**
Lightning IDENTIFYING BACTERIAL PATHOGENS OF REEF-FORMING CORALS USING LASER CAPTURE MICRODISSECTION. Mazur, E. V., E. C. Peters, and J.L. Salerno, Department of Environmental Science and Public Policy, George Mason University, Fairfax, VA
- 3:51 **Break**
- 4:15 **Sea Level Rise Affects Us All: A Panel Discussion** with Erika Lentz and Rob Thieler, Woods Hole Coastal and Marine Science Center
- 5:15 Business meetings
- 6:00 **Happy hour: "Show and Tell"** find an interesting object from your office or living room and tell us a story about it.

Friday, April 30 2021

- 12:30 **Welcome and Announcements:** Meeting Hosts Peter Burn and Mary Alldred
- 12:45 **AERS Election results**, Joseph Luczkovich
- 1:00 **Keynote Address and Workshop: Engaging diverse youth in stem careers, Justin J. Shaifer:** Executive Director of Fascinate, Inc., an organization dedicated to exciting underrepresented students about STEM careers. Justin hosts WGBH Radio and Television's live science show Escape Lab, featured on Twitch. He is known for his culturally responsive teaching STEM curriculum design for New York City institutions, such as his Magic Cool Bus project.
- 2:15 **Break**
- 2:30 **Science Communication Shark Tank** - modeled after a popular TV show, how to pitch your idea for funding.
- 3:30 Student Awards
- 3:45 Adjourn