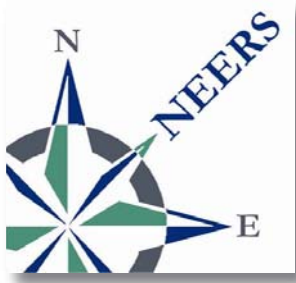
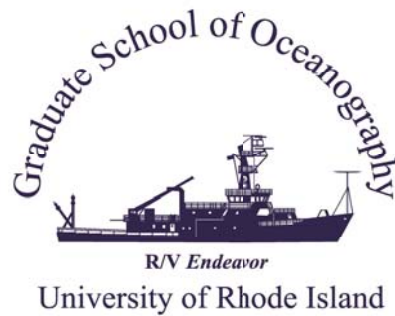


JOINT NEERS/TCS SPRING 2015 MEETING
APRIL 16-18
DEWOLF TAVERN, BRISTOL, RI



Organized and Hosted by
Autumn Oczkowski (US EPA, Atlantic Ecology Division),
Kenny Raposa (Narragansett Bay NERR),
Elizabeth Brannon and Rose Martin
(University of Rhode Island)

PLATINUM SUPPORTERS



GOLD SUPPORTERS



SILVER SUPPORTERS



PICARRO

BRONZE SUPPORTER





Joint New England Estuarine Research Society and The Coastal Society 2015 Spring Meeting



2015 Spring Meeting at a Glance

Thursday April 16, 2015

- 11:00 am – 1:00 pm Meeting registration & poster set up
1:00 pm – 4:30 pm **Symposium: Emerging Issues and Novel Technologies in Coastal Ecosystem Science**
4:30 pm – 7:00 pm Welcoming social sponsored by Onset (Diman room)

Friday April 17, 2015

- 7:00 – 8:00 am Registration and set up of posters
8:00 – 8:15 Greetings and announcements
8:15 – 9:45 **Biological and Physical Processes in Estuarine Ecosystems**
9:45 – 10:00 **Break**
10:00 – 11:15 **Salt marsh Studies I**
11:15 – 11:30 **Break**
11:30 – 12:30 pm **Salt marsh Studies II**
12:30 – 1:30 Lunch (provided); NEERS Business Meeting
1:30 – 2:15 **IGNITE!**
2:15 – 3:45 **Estuarine Fish and Invertebrate Studies**
3:45 – 4:00 **Break**
4:00 – 5:00 **Estuarine Water Quality and Anthropogenic Nitrogen**
5:00 – 7:00 **POSTER SESSION** (appetizers and refreshments will be available)
• Sponsored by the University of RI Graduate School of Oceanography (Diman room)

Saturday April 18, 2015

- 8:15 – 8:30 am **Student awards** and announcements
8:30 – 10:00 **Estuarine Restoration and Climate Adaptation**
10:00 – 10:15 **Break**
10:15 – 12:15 pm **Monitoring and Status of Coastal Habitats and Bays**
12:15 – 12:30 Collect boxed lunches for field trip
12:30 – 3:00 **Field trip: Colt State Park**
• Sponsored by the University of RI's Coastal Institute
Return to Bristol.
Adjourn

Joint New England Estuarine Research Society and The Coastal Society 2015 Spring Meeting

Thursday April 16, 2015

1:00 **Opening remarks**
Sara Grady, NEERS President-elect; Tom Bigford, The Coastal Society President

Symposium: Emerging Issues and Novel Technologies in Coastal Ecosystem Science

Chair: Autumn Oczkowski

1:15 Cornelia Dean
Distinguished Lecturer and Writer-In-Residence at Brown University
CONSTITUENCY OF IGNORANCE

2:00 Betty Kreakie
US EPA, Atlantic Ecology Division, Narragansett, RI.
THE COMPUTATIONAL ECOLOGIST'S TOOLBOX

2:45 **Break**

3:00 Jeffrey W. Hollister
US EPA, Atlantic Ecology Division, Narragansett, RI.
OPEN SCIENCE: A ZEALOT'S VIEW

3:45 Kalle Matso*(1), Leonard, D.(1), Stadler, J.(1), Riley, C.(2), Langan, R.(1)
(1) University of New Hampshire, NERRS Science Collaborative
(2) Great Bay National Estuarine Research Reserve.
INCREASING HOW MUCH SCIENCE INFLUENCES DECISION MAKING: IS IT A SCIENCE OR AN ART?

4:30 **Welcome Social**

Joint New England Estuarine Research Society and The Coastal Society 2015 Spring Meeting

Friday - April 17, 2015

7:00 **Registration and set up of posters**

8:00 **Greetings and Announcements**

Sara Grady, NEERS President-elect; Tom Bigford, The Coastal Society President

*Presenter; **(K)** Ketchum Prize candidate for best graduate student presentation, **(R)** Rankin Prize candidate for best undergraduate student presentation

Biological and Physical Processes in Estuarine Ecosystems; Chair: Rose M. Martin

- 8:15 (K) Sarah Q. Foster*(1) and R.W. Fulweiler (1, 2)
(1) Earth and Environment Department, Boston University, Boston, MA; (2) Department of Biology, Boston University, Boston, MA.
ENVIRONMENTAL CONTROLS ON SEDIMENT NITROUS OXIDE FLUXES IN AN ANTHROPOGENICALLY IMPACTED COASTAL ECOSYSTEM
- 8:30 (K) Catherine Coupland*(1), Oviatt, C.A. (1), Stoffel, H. (1)
Graduate School of Oceanography, University of Rhode Island.
ESTIMATING DAILY PRIMARY PRODUCTIVITY AND NIGHTTIME RESPIRATION IN ESTUARINE WATERS USING IN SITU CARBON METHODS
- 8:45 (K) Timothy Maguire*(1) and R. W. Fulweiler (1,2)
(1)Department of Biology, Boston University, Boston, MA; (2)Earth and Environment, Boston University, Boston, MA.
URBAN RUNOFF – AN OVERLOOKED YET SIGNIFICANT SOURCE OF SILICA TO COASTAL HABITATS
- 9:00 (K) Steven R. Schmidt*(1) and Whitney, M.M. (1)
(1) Marine Sciences Department, University of Connecticut, Groton, CT.
DISTRIBUTION OF RIVER WATER AND ITS INFLUENCE ON STRATIFICATION IN LONG ISLAND SOUND
- 9:15 (K) Rachel A. Perry*and J.M.P Vaudrey
Department of Marine Sciences, University of Connecticut.
BIOAVAILABILITY OF ORGANIC NITROGEN ENTERING A SMALL, SHALLOW EMBAYMENT.
- 9:30 Matthew H. Long*(1) Charette M.A. (1) Martin W.R. (1) and M.C. McCorkle (2)
(1) Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, USA;
(2) Department of Geology and Geophysics, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, USA.
OXYGEN METABOLISM AND PH IN COASTAL ECOSYSTEMS: EDDY COVARIANCE HYDROGEN ION AND OXYGEN EXCHANGE SYSTEM (ECHOES)

9:45 **Break**

Salt Marsh Studies I; Chair: Rose M. Martin

- 10:00 (K) Jamie O'Connell*and S.C. Anisfeld
Yale School of Forestry and Environmental Studies, 195 Prospect Street,
New Haven, CT 06511.
QUANTIFYING RATES OF SALT MARSH MIGRATION INTO UPLAND HABITAT IN LONG ISLAND SOUND

- 10:15 (K) Sarabeth Buckley*(1) and R.W. Fulweiler (1,2)
 (1) Departments of Earth and Environment, Boston University, MA; (2) Department of Biology,
 Boston University, Boston, MA.
 GREENHOUSE GAS EMISSIONS IN LONG ISLAND SOUND SALT MARSHES
- 10:30 Blaire Steven
 Department of Environmental Sciences, Connecticut Agricultural Experiment Station, New Haven, CT.
 A MICROBIAL ECOLOGICAL VIEW OF SUDDEN VEGETATION DIEBACK IN A CONNECTICUT WETLAND
- 10:45 Roman Zajac*(1); Espinosa, I.(1,2) Kelly, E.(1,3; Perry, D. (1)
 (1) Department of Biology and Environmental Science, University of New Haven, West Haven, CT 06516;
 (2) Marine Sciences Research Institute, Jacksonville Univ., Jacksonville FL; (3) Marine Science Program,
 Hawaii Pacific University, Honolulu HI.
 POPULATION ECOLOGY OF THE COFFEE BEAN *MELAMPUS BIDENTATUS* IN RELATION TO CHANGING
 PATCH STRUCTURE IN SALT MARSH LANDSCAPES
- 11:00 Rose M Martin* and G.T. Ober
 Department of Biological Sciences, University of Rhode Island, Kingston, RI.
 AGAINST THE TIDE: HOW WILL SALT MARSH PLANT COMMUNITIES RESPOND TO SYNERGISMS OF
 SEA LEVEL RISE AND ALGAL BLOOMS?

11:15 **Break**

Salt Marsh Studies II

Chair: Rose M. Martin

- 11:30 Jordan W. Mora
 Waquoit Bay National Estuarine Research Reserve, Waquoit, MA.
 IDENTIFYING EVIDENCE OF CHANGE: TRACKING VEGETATION SHIFTS IN A MICRO-TIDAL SALT MARSH
 SYSTEM
- 11:45 Stephen M. Smith
 Cape Cod National Seashore, 99 Marconi Site Road, Wellfleet, MA 02667.
 VEGETATION CHANGE IN SALT MARSHES OF CAPE COD NATIONAL SEASHORE (MASSACHUSETTS, USA)
 BETWEEN 1984 AND 2013
- 12:00 (K) Magali P. Bazzano* and W. H. Elmer
 Department of Biology and Environmental Science, University of New Haven, CT and
 Connecticut Agricultural Experiment Station, New Haven, CT.
 DIMETHYLSULFONIOPROPIONATE (DMSP) IN *SPARTINA ALTERNIFLORA* AT A SALT MARSH AFFECTED BY
 SUDDEN VEGETATION DIEBACK IN CONNECTICUT
- 12:15 (K) Michelle Biegaj
 300 Boston Post Rd.
 ASSESSING THE EXTENT AND DYNAMICS OF NON-VEGETATED PATCHES IN CONNECTICUT SALT MARSHES
 IN RELATION TO CLIMATE CHANGE RELATED PHENOMENA
- 12:30 **Lunch (provided); NEERS Business Meeting**

IGNITE!

Chair: Walter Berry

- 1:30 John M. Logan*(1), Bean, S. (2) and A. Myers (3)
(1) Massachusetts Division of Marine Fisheries, New Bedford, MA; (2) Buttonwood Park Zoo, New Bedford, MA; (3) The Derryfield School, Manchester, NH.
AUTHORSHIP IN ECOLOGICAL PUBLICATIONS: WHAT IT MEANS TO BE A CO-AUTHOR
- 1:35 Paul E. Stacey
Great Bay National Estuarine Research Reserve, New Hampshire Fish & Game Dept., Greenland, NH.
ECOSYSTEM-BASED MANAGEMENT - TOASTING MARSHMALLOWS IN THE FIRES OF ANTHROPOCENTRISM
- 1:40 Amanda L. Babson*(1), G. Ricci (2), and D. Robadue (2).
(1) National Park Service, Northeast Region, Narragansett RI; (2) University of Rhode Island, Coastal Resources Center, Narragansett RI.
VULNERABILITY ASSESSMENT GUIDANCE AND LESSONS LEARNED FOR COASTAL NATIONAL PARKS IN THE NORTHEAST REGION
- 1:45 Karrin Alstad*(1), Brannon,E (2) and Moseman-Valtierra, S.(2)
Picarro, Inc, Santa Clara, CA.
SEVERAL GREAT WAYS TO APPLY PICARRO CRDS TECHNOLOGY TO COASTAL ECOSYSTEM STUDIES
- 1:50 (K) Shri Nageshvari Andrea Verrill
9 Fore Street, Apt. #3.
INTERACTING GRADIENTS INFLUENCING VEGETATION RESPONSE TO TIDAL RESTORATION IN A HYDROLOGICALLY DISTINCT NORTHERN NEW ENGLAND SALT MARSH, HARPSWELL MAINE.
- 1:55 Kristin R. Wilson*(1), J. Aman (1), and B. Johnson (2).
(1) Wells National Estuarine Research Reserve, Wells, ME; (2) Department of Geology, Bates College, Lewiston, ME.
MEASURING USE OF A RESTORED FISH LADDER IN SOUTHERN MAINE AND DOCUMENTING ANADROMY IN TARGET SPECIES
- 2:00 Discussion and Questions

Estuarine Fish and Invertebrate Studies

Chair: Kenneth B. Raposa

- 2:15 (R) Julia M. Reynolds*; B.N. Rudnický; K.M. Smith; and J.A. Sulikowski
Department of Marine Biology, University of New England, Biddeford, ME.
ELUCIDATING POTENTIAL SPAWNING PERIODS AND RESIDENCY TIMES OF FISH WITHIN THE SACO RIVER ESTUARY SYSTEM
- 2:30 (R) Brenda N. Rudnický*, J.M. Reynolds; K.M. Smith; and J.A. Sulikowski
Department of Marine Science, University of New England, ME.
ABIOTIC INFLUENCES ON THE JUVENILE FISH ASSEMBLAGE OF THE SACO RIVER ESTUARY, ME
- 2:45 (R) Abigail K Scro*(1) Cribari, K.J.(1) Markey, K.R.(2) Taylor, D.L.(1)
(1)Department of Marine Biology, Roger Williams University, Bristol, RI; (2) Aquatic Diagnostic Laboratory, Roger Williams University, Bristol, RI.
SPECIFICITY AND SENSITIVITY OF A PCR-BASED APPROACH FOR DETECTING WINTER FLOUNDER IN BLUE CRAB STOMACHS

- 3:00 (R) James A. Elliott*, A. M. Young, M. L. Taylor and J. M. Incatasciato.
Biology Department, Salem State University, Salem, MA 01970 USA.
A NEW OUTLOOK TO SOLVE AN OLD PROBLEM: USING HORMONES AND VENTRAL COLORATION TO ANTICIPATE ECDYSIS IN THE EUROPEAN GREEN CRAB (*CARCINUS MAENUS*)
- 3:15 (K) Ami L. Araujo* (1) and N.J. O'Connor (2)
Department of Biology, University of Massachusetts Dartmouth, North Dartmouth, MA.
BEHAVIORAL RESPONSES TO CHEMICAL CUES BY MEGALOPAE OF THE NON-NATIVE ASIAN SHORE CRAB *HEMIGRAPUS SANGUINEUS* AND THE NATIVE MUD CRAB *DYSPANOPEUS SAYI*
- 3:30 (K) Gabrielle L. Corradino*(1) and S. P. Grace (1).
(1) Department of Biology, Southern Connecticut State University, CT.
DORMANCY IN INTERTIDAL AND SUBTIDAL POPULATIONS OF *ASTRANGIA POCULATA*

3:45 Break

Estuarine Water Quality and Anthropogenic Nitrogen

Chair: Kenneth B. Raposa

- 4:00 (R) Joshua Payne* and Dr. S. Wainright
U.S. Coast Guard Academy, 27 Mohegan Ave., New London, CT 06320.
DETECTION OF ANTHROPOGENIC NITROGEN IN NEW ENGLAND COASTAL WATERS USING STABLE NITROGEN ISOTOPES, PART 2
- 4:15 (K) Mark Ballentine*(1), Ariyaratna, T. (1), Smith, R. (1), Vlahos, P. (1), Cooper, C. (1), Bohlke, J.K. (2), Fallis, S. (3), and Tobias, C. (1).
(1)University of Connecticut, Department of Marine Sciences. 1080 Shennecossett Road, Groton, CT 06340.
(2)US Geological Survey, National Research Program, Reston, VA 20192.
(3)Naval Air Warfare Center Weapons Division, Chemistry Division, China Lake, CA 93555.
UPTAKE AND INCORPORATION OF NITROGEN FROM MUNITIONS IN VARIOUS ESTUARINE SPECIES USING STABLE NITROGEN ISOTOPES
- 4:30 Marguerite C. Pelletier*(1), Gutierrez, M.N (1), McKinney R.M. (1), Slocum C. (2)
(1) U.S. EPA Office of Research and Development, NHEERL, Atlantic Ecology Division, Narragansett, RI;
(2) St Marys College, St Marys City, MD.
IMPACTS OF SALINITY AND NUTRIENT STRESS TO *RUPPIA MARITIMA* AND *ZOSTERA MARINA*: A MESOCOSM EXPERIMENT
- 4:45 Christine M. Tilburg*(1), Latimer, J.S. (2), Anderson, R. (3), Elskus, A. (4), Hyland, J. (5), Page, D. (6), ten Brink, M. (2), Stacey, P. (7), Sterling, S. (8)
(1) Gulf of Maine Council, Buxton, ME; (2) Environmental Protection Agency, Narragansett, RI;
(3) Department of Fisheries and Oceans, St. John's, Newfoundland; (4) USGS/University of Maine, Orono, ME; (5) NOAA, Charleston, South Carolina; (6) Bowdoin College, Brunswick, ME;
(7) Great Bay NERR, Durham, NH; (8) Dalhousie University, Halifax, NS.
THE ECOSYSTEM INDICATOR PARTNERSHIP SHIFTS FROM ESIP 1.0 TO ESIP 2.0

5:00-7:00 POSTER SESSION - (Appetizers and refreshments will be available)

- Sponsored by the Graduate School of Oceanography, University of Rhode Island

Chairs: John Brawley and Walter Berry

- *Presenter; **(D)** Dean Prize candidate for best graduate student poster,
(W) Warren Prize candidate for best undergraduate student poster

Poster Themes

- a (1 – 4) Impacts and monitoring of invasions of estuarine crabs and macroalgae
 - b (1 – 4) Water quality and responses to change in estuaries
 - c (1 – 3) Innovative methods to address complex estuarine problems
 - d (1 – 7) Responses of plants and animals to stressors in salt marshes and dunes
 - e (1 – 3) Monitoring networks and reporting of large datasets
 - f (1 – 2) Ecophysiology of fish and macroalgae
-

Impacts and monitoring of invasions of estuarine crabs and macroalgae

- a-1 (D) Christine Ramsay-Newton*(1), M.E.S. Bracken (2), C.S. Thornber (3), and A. Claros (3)
(1) Marine Science Center, Northeastern University, Nahant, MA;
(2) University of California – Irvine, Irvine, CA; (3) University of Rhode Island, Kingston, RI.
IMPACTS OF THE RECENT ALGAL INVADER, *DASYLIPHONIA JAPONICA* TO NEW ENGLAND COASTAL COMMUNITIES
 - a-2 (W) Conor Donovan*
Department of Biology, Salem State University, Salem, Ma.
MONITORING OF GREEN CRAB DENSITIES AND ACTIVITY USING A REMOTE OPERATED VEHICLE (ROV)
 - a-3 (W) Jerelle A. Jesse*, A. Araujo, and N. O'Connor
Department of Biology, University of Massachusetts Dartmouth, Dartmouth, MA.
BEHAVIORAL RESPONSE OF MUD CRABS TO CHEMICAL CUES FROM FISH SPECIES
 - a-4 (W) Molly Fehon* and D. Taylor
1 Old Ferry Road, Bristol, Rhode Island.
FORAGING ECOLOGY OF BLUE CRABS (*CALLINECTES SAPIDUS*) AND THEIR POTENTIAL IMPACT ON RHODE ISLAND BENTHIC COMMUNITIES
-

Water quality and responses to change in estuaries

- b-1 (D) Annesia L. Lamb*(1)(2) and Branco, B.F. (2)(3)
(1) Department of Earth and Environmental Sciences, The Graduate Center, City University of New York
(2) Aquatic Research and Environmental Assessment Center, Brooklyn College, City University of New York.
(3) Department of Earth and Environmental Sciences, Brooklyn College, City University of New York.
ECOSYSTEM RESPONSE TO WASTEWATER TREATMENT CHANGES IN JAMAICA BAY, NEW YORK
- b-2 Nicole L. Cantatore*, Joshua R. Cooper*, Crosby, S. C., Fraboni, P. J., and Harris, R. B.
Harbor Watch, Earthplace, the Nature Discovery Center, Westport CT.
AN ANALYSIS OF MULTI-DECADAL RECORDS OF DISSOLVED OXYGEN, TEMPERATURE, AND JUVENILE BENTHIC FISH IN NORWALK HARBOR, CT

b-3 Shanna C. Williamson*(1), Rheuban, J.E. (1), Glover, D.M. (1), Costa, J.E. (2), Doney, S.C. (1)
(1) Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution,
Woods Hole, MA 02543; (2) The Buzzards Bay National Estuary Program.
THE EFFECT OF LAND USE CHANGE ON NITROGEN LOAD INTO THE BUZZARDS BAY, MA WATERSHED

b-4 Veronica M. Berounsky*(1,2) and E.J. Peterson (2)
(1) Graduate School of Oceanography, University of Rhode Island, Narragansett, RI;
(2) Narrow River Preservation Association, Saunterstown, RI.
PRELIMINARY ANALYSIS OF THE FIRST LONG TERM TEMPERATURE RECORD FOR THE PETTAQUAMSCUTT
ESTUARY IN SOUTHERN RHODE ISLAND

Innovative methods to address complex estuarine problems

c-1 Cristina G. Kennedy* and Katrina D. Malakhoff*
Marine Geology Department, Center for Coastal Studies, Provincetown, MA.
COUNTING SEASHELLS ON THE SEASHORE: MAPPING MARINE BENTHIC MACROINVERTEBRATE
COMMUNITIES IN CAPE COD, MA

c-2 (D) Elizabeth Q. Brannon*(1) and Alstad, K. (2)
(1) Department of Biological Sciences, University of Rhode Island, Kingston, RI;
(2) Picarro, Inc., Santa Clara, CA.
TAKING THE PICARRO G2508 AND THE NEW SOIL FLUX PROCESSOR TO THE EDGE OF SEWAGE.

c-3 Scott A. Rasmussen*(1), Neil, A. J. (1), Bradley, M. P. (1), LaBash, C. (1), August, P. V. (1),
Lynch, J. C. (2), Stevens, S. (2)
(1) Environmental Data Center, Department of Natural Resources Science, University of Rhode Island, RI;
(2) Department of the Interior, National Parks Service, Northeast Coastal and Barrier Network, RI.
COLLECTING ELEVATION DATA FOR NATIONAL PARK SERVICE SALT MARSHES IN RESPONSE TO SEA LEVEL
RISE AND POST-AND FUTURE STORM EVALUATION

Responses of plants and animals to stressors in salt marshes and dunes

d-1 Daisy Durant*(1), K. B. Raposa (1), M. Cole (2), W. Ferguson (2)
(1) Narragansett Bay National Estuarine Research Reserve, Prudence Island, RI;
(2) Save The Bay, Providence, RI.
FORMATION AND RAPID RECOVERY OF VEGETATION DIEBACK PATCHES IN NARRAGANSETT BAY, RI
SALT MARSHES

d-2 Diana T. Barrett*(1), Rajaniemi, T.K. (1), Bucci, V. (1), Silby, M. (1)
(1) Department of Biology, University of Massachusetts Dartmouth, North Dartmouth, MA.
EFFECTS OF ABIOTIC STRESSORS AND SOIL MICROBIOTA ON THE ZONATION OF COASTAL DUNE PLANTS

d-3 (W) Katharine Egan*(1), S. Moseman-Valtierra (1), O. Abdul-Aziz (2), K.S. Ishtiaq (2)
(1) Department of Biological Sciences, University of Rhode Island, Kingston, RI 02881
(2) Department of Civil and Environmental Engineering, Florida International University, Miami, FL 33174.
GREENHOUSE GAS EMISSIONS ACROSS SALT MARSH ZONES IN WAQUOIT BAY, MASSACHUSETTS, USA:
TESTING RELATIONSHIPS TO PLANT AND ENVIRONMENTAL PROPERTIES

- d-4 Kenneth B. Raposa*(1), C. Bradley (1), C. Wigand (2), R. McKinney (2), K. Szura (2), E. Watson (2), and J. Gurek (2)
(1) Narragansett Bay NERR, Prudence Island, RI; (2) USEPA Atlantic Ecology Division, Narragansett, RI.
WHY ARE THERE SO MANY CRABS? STRATEGIES FOR QUANTIFYING SALT MARSH CRAB ABUNDANCE
- d-5 Pamela A. Morgan
Environmental Studies, University of New England, Biddeford, ME.
DOES SHORELINE DEVELOPMENT AFFECT TIDAL MARSH PLANT COMMUNITIES ACROSS A SALINITY GRADIENT?
- d-6 Plunket, J.(1), K. Stanzel (2), Robin L. J. Weber*(3), and S. Lerberg (4).
(1) North Inlet-Winyah Bay National Estuarine Research Reserve, Georgetown, SC; (2) Mission-Aransas National Estuarine Research Reserve, Port Aransas, TX; (3) Narragansett Bay National Estuarine Research Reserve, Prudence Island, RI; (4) Chesapeake Bay National Estuarine Research Reserve, Gloucester Point, VA.
INTRODUCING CCVATCH: THE CLIMATE CHANGE VULNERABILITY ASSESSMENT TOOL FOR COASTAL HABITATS
- d-7 (W) Sydnie Racine*, Buchanan, R., Travis, S., and Zogg, G.
Department of Biology, University of New England, Biddeford, ME.
EFFECTS OF GLOBAL WARMING, NUTRIENT ADDITION, AND SNAIL HERBIVORY ON PLANT PRODUCTION AND MICROBIAL DECOMPOSITION.
-

Monitoring and Status of Coastal Habitats and Bays

- e-1 Capson, T.L. (1); Cote, M. (2); Gledhill, D. (3); Liebman, M. (2); Ivy Mlsna* (2); Morrison, J.R. (4); Salisbury, J. (5); Stancioff, E. (6); Stymiest, C. (4); Thomas, H. (7); Turner, E. (8)
(1) capsont@gmail.com, Washington D.C.; (2) U.S. Environmental Protection Agency, Boston, Massachusetts; (3) U.S. NOAA Ocean Acidification Program, Silver Spring, Maryland; (4) Northeast Regional Association of Coastal Ocean Observing Systems, Portsmouth, New Hampshire; (5) University of New Hampshire, Durham, New Hampshire; (6) University of Maine Sea Grant Extension, Orono, Maine; (7) Dalhousie University, Halifax, Nova Scotia; (8) NOAA National Centers for Coastal Ocean Science, Durham, NH.
COMMUNICATING OCEAN AND COASTAL ACIDIFICATION TO STAKEHOLDERS AND POLICYMAKERS IN THE NORTHEAST US AND CANADIAN MARITIMES
- e-2 Matthew Liebman* and Integrated Sentinel Monitoring Network Steering Committee
US EPA Region 1 – New England, Boston, MA.
AN INTEGRATED SENTINEL MONITORING NETWORK (ISMN) FOR ECOSYSTEM CHANGE IN THE NORTHEASTERN US OCEAN AND COASTAL WATERS
- e-3 (D) Rahat Sharif
Department of Natural Resource Science, University of Rhode Island, RI.
VISUALIZING WATER QUALITY DATA USING REACTIVE PROGRAMMING: EXAMINING TWENTY YEARS OF MONITORING DATA USING SHINY
-

Ecophysiology of fish and macroalgae

- f-1 (W) Mary Yurkevicius*(1), Jacques, J. (1), Breen N.E. (2), and Taylor, D.L. (1)
Roger Williams University, Department of (1) Marine Biology and (2) Chemistry, One Old Ferry Rd, Bristol, RI, 02809.
FATTY ACID PROFILES OF MARINE FISHES FROM RHODE ISLAND COSTAL WATERS

- f-2 (D) Phillip Matthew Schotte*(1), Röse, U. S. R. (2), Frederich, M. (1), Zeeman, S. I. (1)
(1) Department of Marine Sciences, University of New England, Biddeford, ME;
(2) Department of Biological Sciences, University of New England, Biddeford, ME.
INDUCIBILITY OF VOLATILE AND NON-VOLATILE ORGANIC COMPOUNDS IN *FUCUS VESICULOSUS*
IN RESPONSE TO METHYL JASMONATE

Joint New England Estuarine Research Society and The Coastal Society 2015 Spring Meeting

Saturday April 18, 2015

- 8:15 **Student Awards and Announcements**
Sara Grady and Courtney Schmidt
-

Estuarine Restoration and Climate Adaptation

Chair: Elizabeth Q. Brannon

- 8:30 Jennifer H. Mattei*, M. Beekey, J. Rapaglia, L. Steele,
Department of Biology, Sacred Heart University, 5151 Park Avenue, Fairfield, CT.
URBAN ESTUARIES: IN NEED OF REMEDIATION, RESTORATION AND CONSERVATION
- 8:45 Andrew S. Dolan*, Rapaglia, J., Mattei, J.H., Beekey, M., Steele, L.
Department of Biology, Sacred Heart University, 5151 Park Avenue, Fairfield, CT.
WAVE DISSIPATION AND SEDIMENT TRANSPORT: A LIVING SHORELINE PILOT PROJECT
- 9:00 Kara Russell* and R. Konisky
The Nature Conservancy, Great Bay Office, Newmarket, NH.
A KEY TO ACTIVATING NEW HAMPSHIRE'S OYSTER RESTORATION PROJECT: NINE YEARS OF BUILDING A
COMMUNITY ENGAGEMENT PROGRAM THAT GENERATES USEFUL SCIENCE AND SOCIAL SUPPORT
- 9:15 Sara N. da Silva Quintal
Department of Watershed Protection, Buzzards Bay Coalition, New Bedford, MA.
RESTORING AN URBAN RIVER: THE ACUSHNET SAWMILL ECOLOGICAL RESTORATION PROJECT
- 9:30 Karen L. Vaughan*, S. E. Fox, K. C. Medeiros, and M. Tanis
National Park Service, Cape Cod National Seashore, Wellfleet, MA.
PRE-RESTORATION OF THE HERRING RIVER ESTUARY: UNDERSTANDING THE EFFECTS OF
TIDAL RESTRICTION
- 9:45 Robinson C. (1), Robin L. J. Weber*(2), N. Herold (3), and K. Raposa (2)
(1) The Baldwin Group, NOAA Office for Coastal Management, Charleston, SC; (2) Narragansett Bay
National Estuarine Research Reserve, Prudence Island, RI; (3) NOAA Office for Coastal Management,
Charleston, SC.
BASELINE MAPPING OF RHODE ISLAND'S COASTAL SALT MARSH AND HIGH/LOW MARSH RATE OF CHANGE
- 10:00 Break**
- 10:15 Amy Costa*(1), M.S. Costa (1), and J.A. Burkhardt (1)
Center for Coastal Studies, 5 Holway Avenue, Provincetown, MA 02657.
A COMPREHENSIVE WATER QUALITY MONITORING PROGRAM FOR CAPE COD AND THE ISLANDS
- 10:30 Rachel W. Jakuba* (1), Costa, J. E. (2), Williams, T. (1), Rasmussen, M. P. (1), Neill, C. (3)
(1) Buzzards Bay Coalition, New Bedford, MA; (2) Buzzards Bay National Estuary Program, Massachusetts
Office of Coastal Zone Management, Wareham, MA (3) Marine Biological Laboratory, Woods Hole, MA.
TRENDS IN THE HEALTH OF BUZZARDS BAY OVER THE LAST 23 YEARS

- 10:45 Jennie E. Rheuban*(1), S. Williamson (1), J. E. Costa (2), D. M. Glover (1), R. W. Jakuba (3),
D. C. McCorkle (4), C. Neill (5), and S. C. Doney (1)
266 Woods Hole Rd, MS #25.
LONG-TERM TRENDS IN SUMMERTIME CLIMATE AND WATER QUALITY INDICATORS IN THE COASTAL
AND ESTUARINE WATERS OF BUZZARDS BAY, MASSACHUSETTS
- 11:00 Heather Stoffel*(1), Oviatt, C. (1), Kiernan, S. (2), and Requintina, E. (1)
(1) University of Rhode Island's Graduate School of Oceanography (UIR-GSO), (2) Rhode Island
Department of Environmental Management's Office of Water Resources (RIDEM-OWR).
RIVER FLOW FORCING FACTOR THRESHOLDS ON SEASONAL HYPOXIA IN NARRAGANSETT BAY, RI
- 11:15 Larry T. Spencer
Dept. of Biology, Plymouth State University, Plymouth, NH 03264.
AN ANALYSIS OF THE SHANNON RIVER AND ESTUARY FLOOD IN THE FALL OF 2009:
NATURE AT ITS WORST.
- 11:30 Eric S. Walsh*(1), Cantwell, M.G.(1), Kreakie, B.J.(1), Nacci, D.(1).
(1) US Environmental Protection Agency, Office of Research and Development, National Health and
Environmental Effects Research Laboratory, Atlantic Ecology Division, Narragansett, RI, USA.
PREDICTING THE SPATIAL DISTRIBUTION OF ORGANIC CONTAMINANTS IN AN ESTUARINE SYSTEM USING
A RANDOM FOREST APPROACH
- 11:45 Jennifer Burkhardt*, A.Costa, O. Nichols, M. Borrelli.
Center for Coastal Studies, Provincetown, MA.
MONITORING THE EFFECTS OF MECHANICAL BEACH RAKING ON THE PHYSICAL, CHEMICAL
AND ECOLOGICAL ENVIRONMENT OF RECREATIONAL BEACHES IN PROVINCETOWN, MA.
- 12:00 Gregg E. Moore* (1,2) Burdick, D.M. (1,3), Peter, C.R. (1) and D. R. Keirstead (4)
(1) University of New Hampshire, Jackson Estuarine Laboratory, 85 Adams Point Road, Durham, NH 03824;
(2) Department of Biological Sciences; (3)Department of Natural Resources and the Environment; and
(4)United States Department of Agriculture Natural Resources Conservation Service, Main Street,
Durham, NH 03824.
ELECTROMAGNETIC INDUCTION AS A TOOL TO MAP SOIL PORE WATER SALINITY ACROSS TIDAL MARSHES
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- 12:15 Collect Boxed Lunches for Field Trip
- 12:30 **Field Trip to Colt State Park**
Leads: Gregg E. Moore and Kenneth B. Raposa
- 3:00 Return to Bristol
- Adjourn**