

PROGRAM

SPRING MEETING OF THE  
NEW ENGLAND ESTUARINE RESEARCH SOCIETY  
APRIL 24-26, 1975

TREADWAY-SAMOSET RESORT, ROCKPORT, MAINE  
(207-594-2511)

Host Institute, IRA C. DARLING CENTER

UNIVERSITY OF MAINE at ORONO PURPOSE AND METHODS

NEERS exists for the purpose of bringing together persons actively engaged in research on estuaries and coastal waters. We meet twice a year -- spring and fall -- at some center of research activity to exchange ideas, renew fellow-ship and keep tabs on developments. Papers delivered at the scientific sessions are kept informal and are to be "work in progress" rather than completed research.

Our goal is to provide the right setting for discussion and argument, and the efforts of students are encouraged. We offer a place where you can bring your ideas into the open for constructive criticism.

EXECUTIVE COMMITTEE

Michael Mazurkiewicz  
PRESIDENT

Paul Chantey  
SECRETARY/TREASURER

Perry Jeffries

Bernard McAlice

John Tietjen

THURSDAY, APRIL 24, 1975

- 1200 Open house, Ira C. Darling Center until 1600
- 1600 Registration, Lobby of Treadway-Samoset until 2000
- 1930 Beer Blast, at Treadway-Samoset

FRIDAY, APRIL 25, 1975

- 0900 Registration - Lobby of Treadway-Samoset until 1200

SCIENTIFIC SESSION: BANQUET ROOM OF TREADWAY-SAMOSSET  
DAVID DEAN, CHAIRMAN

- 0900 Measurements of low velocity transport in the intertidal zone. Robert I. Welsh and Barbara L. Welsh, Naval Underwater Systems Center (Groton) and Marine Sciences Institute, University of Connecticut (Storrs).
- 0920 Immune response of summer flounder (Paralichthys dentatus) to a bacterial antigen mixture. Douglas S. Sparrow, Newton, Massachusetts.
- 0940 Temperature-salinity effects on reproductive behavior of a salt marsh cyclopoid copepod. Guy R. Bouthillette, Lynn, Massachusetts.
- 1000 Computer modeling of power plant entrainment: the area of interest. Kurt Hess, University of Rhode Island, Kingston, Rhode Island.
- 1020 Coffee
- 1040 Dissolved free amino acids in the Damariscotta River estuary, Maine. Stephen Macko, Ira C. Darling Center, University of Maine at Orono, Walpole, Maine.
- 1100 Observations on the population dynamics and ecology of the Atlantic tomcod (Microgadus tomcod) in the Hudson River estuary. C. Braxton Dew, LMS Engineers, Tappan, New York.
- 1120 A study of salt marsh aquatic insects, with particular reference to Trichocorixa verticalis var. sellaris (Abbott) (Hemiptera) and Eurythrodiplax berenice Drury (Odonata). Larry J. Kelts, University of New Hampshire, Durham, New Hampshire.
- 1200 LUNCH

SCIENTIFIC SESSION: BANQUET ROOM OF TREADWAY-SAMOSET  
JOHN TIETJEN, CHAIRMAN

- 1320 Heterogeneity in benthic diatom communities: sources, patterns and problems. Robert K. Edgar, Southeastern Massachusetts University, North Dartmouth, Massachusetts.
- 1340 A modified technique for sampling and analyzing subtidal interstitial water. Frank R. Cantolmo, City College of New York, New York, N. Y.
- 1400 Seasonal variation of decomposition rates of Spartina alterniflora in a Massachusetts salt marsh. Paul Montagna, Northeastern University, Boston, Massachusetts.
- 1420 T/S/DO and transparency structure of the Thames River estuary (Conn.). Douglas S. Tolderlund, U.S. Coast Guard Academy, New London, Connecticut.
- 1440 The effects of low salinity on the hatching of winter flounder (Pseudopleuronectes americanus). Steven M. Conway and Henry K. Witmer, U.S. Coast Guard Academy, New London, Connecticut.
- 1500 Coffee
- 1520 Characteristics of blood oxygen dissociation in winter flounder. Joseph J. Cecil Jr., David W. Bridges and J. B. Hayden, The Research Institute of the Gulf of Maine, South Portland, Maine.
- 1540 Occurrence and possible adaptive significance of  $\beta$ -Glucuronidase and Arylamidase ("Leucine Aminopeptidase") activity in two species of marine nematodes. Alice Deutsch and J.B. Jennings, City College of New York (New York), and University of Leeds (England).
- 1600 Biological effects of heavy metals on juvenile bay scallops, Aequipecten irradians in short-term exposures. David A. Nelson, A. Calabrese, B. A. Nelson and J. R. MacInnes, National Marine Fisheries Service, Milford, Connecticut.
- 1620 Frontal structure and dynamics of the Connecticut River discharge plume. John D. Monk, Normandeau Associates, Inc., Bedford, New Hampshire.
- 1640 A depth-related mechanism for changes in diatom sinking rates. David E. Cunningham and Robert K. Edgar, Southeastern Massachusetts University, North Dartmouth, Massachusetts.

- 1800 HAPPY HOUR, CASH BAR, TREADWAY-SAMOSET
- 1900 BANQUET, TREADWAY-SAMOSET
- 2030 SPECIAL INTEREST GROUPS
1. Environmental Impact of Tidal and Thermonuclear Power Facilities
  2. Chemistry of Estuaries -- Reasons for Standardization
  3. Marine Aquaculture -- How Do We Get There From Here?
  4. Demonstrations (further details to be given at the meeting)

SATURDAY, APRIL 26, 1975

- 0815 Registration, Lobby of Treadway-Samoset until 0945
- SCIENTIFIC SESSION: BANQUET ROOM OF TREADWAY-SAMOSET  
BERNARD McALICE, CHAIRMAN
- 0900 Survival and viability of diatom resting spores after passage through zooplankton. Paul Hargraves, University of Rhode Island, Kingston, Rhode Island.
- 0920 The remobilization of phosphate in eastern Long Island Sound. W. Berry Lyons and Carlton D. Hunt, University of Connecticut, Groton, Connecticut.
- 0940 A study of shellfish hatchery bacterial diseases. Louis Leibovitz, Cornell University, Ithaca, New York.
- 1000 Evaluation of environmental effects and operation efficiency of sidecast dredging. Gilbert L. Chase, U.S. Army Corps of Engineers, Waltham, Massachusetts.
- 1020 Coffee
- 1040 Observations on reproduction and food intake in the predatory calanoid copepod, *Tortanus discaudatus*. David G. Phillips, University of New Hampshire, Durham, New Hampshire.

- 1100 The adult herring fishery and its relation to larval herring of coastal Maine. Joseph J. Graham, Department of Marine Resources, West Boothbay Harbor, Maine
- 1120 Reproduction and growth of Macoma balthica (Bivalvia: Tellinidae) in New England. Mary Ann Gilbert, Colby College, Waterville, Maine.
- 1140 BUSINESS MEETING
- 1400 Open house, Ira C. Darling Center until 1700

STANDBY PAPERS:

Fluctuations in salinity and nutrient levels in a small estuary and their possible relation to changes in storage capacity of the system. Janet P. Herring and Barbara L. Welsh, University of Connecticut, Storrs, Connecticut.

The reproductive periods of an intertidal population of Nereis succinea on the Damariscotta River. Robert Foster, Ira C. Darling Center, University of Maine at Orono, Walpole, Maine.

Population dynamics of Nassarius obsoletus (Mollusca: Gastropoda). John C. Lumsden, University of Connecticut, Storrs, Connecticut.

Effects of incident light intensity on nutrient uptake by a marine diatom in outdoor continuous culture. Mary Farmer, City College of CUNY, New York, N.Y.

ANNUAL DUES

Dues for 1975 are payable by everyone. If you are planning on attending the Spring Meeting in Maine please pay at the meeting. If you are unable to attend the Spring Meeting, please send checks (\$1.00 student, \$3.00 regular) payable to: NEERS Box 645, New Suffolk, New York 11956.