

**THE NEW ENGLAND ESTUARINE RESEARCH SOCIETY
FALL MEETING, OCTOBER 20-22, 1994**

OLD JAILHOUSE TAVERN
ORLEANS, MASSACHUSETTS

Sandra Macfarlane, Conservation Department, Town of Orleans, Local meeting organizer

MEETING PROGRAM

THURSDAY

**SPECIAL SYMPOSIUM
TRANSLATING SCIENCE INTO MANAGEMENT**

0800-1200 Registration, Old Jailhouse Tavern

Anne Giblin, Ecosystems Center, Marine Biological Laboratory, Session chair

0900 Sandra Macfarlane, Town of Orleans, Conservation Department
OPENING REMARKS

0915 John Pearce, Northeast Fisheries Center
TRANSLATING SCIENCE INTO MANAGEMENT-- HOW, WHEN, AND HOW MUCH?

0945 Robert Buchsbaum and Andrea Cooper, Massachusetts Audubon Society
TRANSFERRING SCIENTIFIC INFORMATION TO MANAGERS ON THE LOCAL LEVEL:
THE PLUM ISLAND SOUND MINIBAY PROJECT

1015 BREAK

1030 Robert Pond, Stripers Unlimited
ON THE FACT THAT FISHERIES MANAGEMENT POLICY DOES NOT ADDRESS THE
BASIC CAUSES OF FISH STOCK DECLINE

I 100 Norbert Jaworski, Environmental Protection Agency, and Robert Howarth, Cornell University
COMPARISON OF THE NUTRIENT AND METAL LOADINGS FOR THE NEW
ENGLAND COASTAL WATERS AND FOR THE SEVEN MAJOR ESTUARIES, PART II

I I 30 Charles Roman, National Biological Survey, University of Rhode Island, John Portnoy,
National Biological Survey, Cape Cod National Seashore, and J. R. Allen, North Atlantic
Field Station
SCIENCE AND RESOURCE MANAGEMENT: EXAMPLES FROM NAUSET MARSH
(CAPE COD NATIONAL SEASHORE)

1200-1430 LUNCHEON. (Sign up for lunch when you register.) Transport by chartered motorcoach and al fresco dining at Fort Hill Park, Cape Cod National Seashore. Avail yourselves of the opportunity to continue discussion of the morning talks, consider challenges of science and management around you with learned colleagues, and place your bets on the extent of the erosion from the winter storms-to-be.

Bruce Tripp, Coastal Research Center, Woods Hole Oceanographic Institution,
Session chair

- 1430 Frederick Short, University of New Hampshire
RECONSTRUCTING MARINE WETLANDS TO REMEDIATE HAZARDOUS WASTE
CONTAMINATION IN AN ESTUARY
- 1500 Ernest Waterman, Environmental Protection Agency
REMEDY SELECTION IN HAZARDOUS WASTE SITE CLEANUP
- 1530 BREAK
- 1600 Eduard Eichner, Cape Cod Commission
NITROGEN IMPACTS FROM LAND USE IN COASTAL EMBAYMENT WATERSHEDS:
USING NITROGEN LOADING TO DEVELOP MANAGEMENT OPTIONS
- 1630 Joseph Costa. Buzzards Bay Program
NITROGEN TMALS FOR BUZZARDS BAY EMBAYMENTS
- 1700 SOCIAL. Continued informal discussion of the day's talks following the symposium will occur at the Old Jailhouse Tavern. Heterotroph sustenance will be available for purchase.

THURSDAY EVENING

2000-2300

REGISTRATION
NAUSET BEACH-SIDE MOTEL
BEACH ROAD, ORLEANS, MASSACHUSETTS

SOCIAL

NEERS 25th anniversary and post-Woodstock-94 celebration, comparison of physical and biological qualities of mud slurries collected from Bethel, NY (1969) vs Saugerties, NY (1994), discussion of sampling techniques for enumeration of gray hairs, estimation of dehisute-pate surface area from satellite imaging of reflectance patterns. attempts to stem the inexorable tides of time, general collegial enjoyment.

FRIDAY
SESSIONS OF CONTRIBUTED PAPERS OLD JAILHOUSE TAVERN
ORLEANS. MASSACHUSETTS

R indicates Rankin Prize presentations; insufficient Ketchum Prize submissions were received to hold a Ketchum competition.

0800-1200 Meeting Registration and campaigning efforts of NEERS officer candidates.
Old Jailhouse Tavern

Mike Mazurkiewicz. University of Southern Maine, Session Chair

0830 Veronica Berounsky, University of Rhode Island, NEERS President
WELCOME

0840 David Burdick, University of New Hampshire, Michele Dionne, Wells National Estuarine
Research Reserve, and Dan McHugh, Great Meadow Farms
INITIAL RESPONSES TO TIDAL EXCHANGE RESTORATION IN TWO SALT MARSHES

0900 Richard Orson, Najarian Associates, Inc., R. Scott Warren and William Nicring,
Connecticut College
THE STABILITY AND APPLICATION OF 137Cs IN DATING TIDAL MARSH PEATS

0920 Andrew Schoudel, University of New Hampshire
SEASONAL VARIATION OF NUTRIENTS IN THE KENNEBEC, SHEEPSCOTT AND
DAMARISCOITA RIVER ESTUARIES

0940 ^REileen Monaghan, University of Massachusetts at Amherst, and Anne Giblin,
Marine Biological Laboratory
THE FLUX OF NUTRIENTS FROM OXIC AND ANOXIC SEDIMENTS

1000 John Portnoy, National Biological Survey, Cape Cod National Seashore
THE BIOGEOCHEMISTRY AND RESTORATION OF AN ALTERED CAPE COD
ESTUARY, THE HERRING RIVER, WELLFLEET, MASSACHUSETTS

1020 BREAK

1040 C. F. Krahforst and G. T. Wallace, University of Massachusetts at Boston
THE DISTRIBUTION OF SILVER IN WATERS OF BOSTON HARBOR AND
MASSACHUSETTS BAY

1100 Peter Burn. R. H. Moore, M. Rosol, E. Davey and K. Perez, Suffolk University,
Massachusetts General Hospital and Environmental Protection Agency
HOT SHOTS PART DEUX: AS CLEAR AS MUD

1120 Stuart Findlay, Institute of Ecosystem Studies, Robert Sinsabaugh. University of Toledo, and David Fischer, Institute of Ecosystem Studies
DISSOLVED ORGANIC CARBON SOURCES FOR PLANKTONIC BACTERIA
IN THE HUDSON RIVER ESTUARY

1140 ^RAmy Uhlenhopp, Lawrence University, John Hobbie and Joseph Vallino,
Marine Biological Laboratory
EFFECTS OF LAND USE ON THE DEGRADABILITY OF DISSOLVED
ORGANIC MATTER FROM DIFFERENT WATERSHEDS

1200-1330 LUNCHEON (Sign up for lunch when you register).

Ted Loder, University of New Hampshire, Session Chair

1330 G. Bernard Gardner, Tracy Villareal, Theodore Loder (University of New Hampshire), Susan Hegarty, Chantal Lefebvre, Zehra Schneider and Samantha Woods, University of Massachusetts at Boston
AN INTERDISCIPLINARY STUDY OF PHYTOPLANKTON AND NUTRIENT DYNAMICS
IN CAPE COD BAY: PROJECT DESCRIPTION AND EARLY RESULTS

1350 Tracy Villareal, Susan Hegarty, Samantha Woods, Zehra Schneider and Bernard Gardner, University of Massachusetts at Boston
SPATIAL PATTERNS OF PHYTOPLANKTON BIOMASS AND CHEMICAL
COMPOSITION IN CAPE COD BAY DURING AUGUST 1993

1410 ^RJessica Boxhill, Vassar College, Lory Santiago Vazquez, Timothy R. Harrison, Kenneth Foreman and James Kremer, Marine Biological Laboratory
DAILY VARIATION IN PHYTOPLANKTON PRODUCTION IN TWO SUBESTUARIES OF
WAQUOIT BAY, MASSACHUSETTS

1430-1510 BREAK and POSTER SESSION

Priscilla Baillie, Connecticut Marine and Freshwater Research Service
SALT POND CREATION AS MITIGATION FOR IMPACTS ON TIDAL WETLANDS

David Franz and Tom Choina, Brooklyn College CUNY
COMMUNITY STRUCTURE OF INTERTIDAL SANDFLAT INVERTEBRATES IN
JAMAICA BAY, NEW YORK -- AN URBAN ESTUARY

Susan Hegarty and Tracy Villareal, University of Massachusetts at Boston
SEASONAL VARIATION IN SURFACE WATERS OF FALLON PIER (JFK
LIBRARY, BOSTON HARBOR)

Kevin Kerney, US Coast Guard Academy, Steven Long, NASA, and Michael Hicks, US Coast Guard Academy
MEASUREMENTS OF THE INTERACTIONS OF WAVE GROUPS OF
DIFFERING WAVELENGTHS

Chantal Lefebvre, B. Gardiner and T. Villareal. University of Massachusetts at Boston
THE ENVIRONMENTAL SIGNIFICANCE OF GROUNDWATER AS A SOURCE OF
NUTRIENTS INTO COASTAL CAPE COD BAY

Charles Roman, John Portnoy, Charles LaBash and Peter August. University of Rhode Island
SALT MARSH RESTORATION AT HATCHES HARBOR, PROVINCETOWN, MA

Zehra Schneider, Tracy Villareal, Susan Hegarty and Samantha Woods, University of
Massachusetts at Boston
WINTER PHYTOPLANKTON BLOOM DYNAMICS OF CAPE COD BAY,
MASSACHUSETTS; DECEMBER, 1993 TO FEBRUARY, 1993

1510 Katherine Fogarty, Charles Menzie and Jonathan Freshman, Menzie-Cura and Associates
BIOACCUMULATION OF CONTAMINANTS IN DEPLOYED AND NATIVE BIVALVE
SHELLFISH OF THE THAMES RIVER ESTUARY, CONNECTICUT

1530 Mary-Susan Potts, Northeastern University
EFFECTS OF HEMATOPOIETIC NEOPLASIA ON REPRODUCTION AND POPULATION
SIZE DISTRIBUTION IN THE SOFT-SHELL CLAM

1550 David Burdick and Frederick Short, University of New Hampshire ("And the first shall be last.")
THE EFFECTS OF DOCKS ON EELGRASS IN MASSACHUSETTS COASTAL WATERS

1610 **NEERS BUSINESS MEETING** (the last of President Berounsky's dynasty)
Agenda:
Swim call at the beach (also the last during President Berounsky's dynasty)
Secretary's report
Treasurer's report
NEERS Constitutional changes (see the attached meeting information)
Election of officers (see the attached meeting information)
Transfer of power to the duly elected NEERS officials as negotiated by ex-President Jimmy
Carter. The remainder of the Business Meeting will be conducted in Brooklynesse; the translation
may be heard on headphones that are available for rental at the registration desk. Report on the
ERF Governing Board meeting, discussion of ERF '97, to be held in New England Discussion of
NEERS *viz* the electronic highway as it relates to redox potential of e-mail

1730-1830 Consideration of the Cape Cod autumn, prebanquet scrubbings

IS30-2100 **AWARDS BANQUET**

Old Jailhouse Tavern, Orleans

(SIGN UP FOR THE BANQUET WHEN YOU REGISTER!)

Presentation of Rankin Prize, demonstrations of appreciation for outgoing NEERS officers, unsolicited
advice for incoming NEERS officers, lobster banding competition, final beach-erosion wagers

2100-?? POST-BANQUET FESTIVITIES

Orleans Inn, Orleans

Music provided by Link Montana and the Roamin' Catholics (honest, no joakin')

**SATURDAY
MARINE EDUCATION**

Charlene D'Avanzo, Hampshire College, Session chair

Formal Marine Science Education

0830 Peter Schiefele, Director, Marine Education Program, University of Connecticut, and
Dorn Tedeschi, High School Teacher
THE AQUANAUT PROGRAM

0900 Mickey Weiss, Director, Project Oceanology, and John McNulty, Berlin High School
PROJECT OCEANOLOGY

0930-1000 BREAK and MARINE SCIENCE CURRICULUM POSTER SESSION

Joceline Boucher, Maine Maritime Academy
CAREER-RELATED ASPECTS OF UNDERGRADUATE MARINE SCIENCE PROGRAMS

Marshall Pregnall, Vassar College
MUDFLAT AEROBICS AND OTHER EXERCISES IN AN ESTUARINE ECOLOGY COURSE

Beth Shea, Arboretum, and R. Scott Warren, Department of Botany, Connecticut College
IMPORTANCE OF UNDERGRADUATE RESEARCH OPPORTUNITIES THROUGH
RESEARCH GRANTS

1000 Barbara Welsh, Marine Sciences Institute, University of Connecticut
John Farrington, Associate Director and Dean of Graduate Studies, Woods Hole Oceanographic
Institution
DISCUSSION: SHOULD COLLEGES AND UNIVERSITIES OFFER
UNDERGRADUATE MAJORS IN MARINE SCIENCE?

Public Outreach Marine Science Education

1100 Margaret Geist, Waquoit Bay National Estuarine Research Reserve
CITIZENS ACTION IN THE DESIGNATION AND PROTECTION OF WAQUOIT BAY

1120 Sara Hickox, Director, Office of Marine Programs, Graduate School of Oceanography,
University of Rhode Island
LIVING ON THE EDGE: A COASTAL EXHIBITION AND EDUCATION PROGRAM

1140 Charlene D'Avanzo, Hampshire College
Discussion Suggestions for Future Education Activities, Including ERF '95 and ERF '97

1200 David Franz, Brooklyn College, CUNY and President, NEERS.
CLOSING REMARKS

1300 FIELD TRIPS: Shore walk, Boat tour of Town Cove (Sign up at registration.)