

New England Estuarine Research Society

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THE NEERS 1992 SPRING MEETING

7-9 MAY 1992

THE TAGE INN, CORNER OF I-93 (EXIT 45) & I-495, ANDOVER, MASSACHUSETTS
(508-685-6200; yes, Virginia, there is a change of venue. Marshall's lawyer felt that he
wouldn't get a fair trial in Danvers, because of some of his youthful activities there.)

LOCAL MEETING ORGANIZER, WENDY SMITH

Thursday, 7 May

SPECIAL SYMPOSIUM ON COASTAL PROCESSES

1230-1330 Registration

Presiding: Mao Zedung

1330 Theodore C. Loder III and Susan Becker. The Institute for the Study of Earth, Oceans,
and Space; University of New Hampshire, Durham, New Hampshire. **THE SEASONAL
DISTRIBUTION OF NUTRIENTS IN MASSACHUSETTS BAYS.**

1350 Anne E. Giblin, Charles Hopkinson, and Jane Tucker. The Ecosystems Center, Marine
Biological Laboratory, Woods Hole, Massachusetts. **METABOLISM AND NUTRIENT
CYCLING IN BOSTON HARBOR SEDIMENTS.**

1410 Elin M. Haugen. Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor,
Maine.
**PHYTOPLANKTON POPULATIONS IN MASSACHUSETTS BAY AND CAPE COD
BAY: SPRING BLOOM 1991.**

1430 David W. Townsend. Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor,
Maine.
**VERTICAL WATER COLUMN STRATIFICATION AND SPRING
PHYTOPLANKTON BLOOMS IN THE GULF OF MAINE.**

1450-1510 BREAK

1510 George B. Gardner. Environmental Sciences Program, University of Massachusetts at Boston, 100 Morrissey Boulevard, Boston, Massachusetts.
SEASONAL EVOLUTION OF THE HYDROGRAPHIC STATE IN MASSACHUSETTS BAY FROM MARCH, 1990 TO JUNE, 1991: SUMMARY OF OBSERVATIONS DURING THE MASSACHUSETTS BAYS PROGRAM PHYSICAL OCEANOGRAPHY STUDY.

1530 George R. Hampson. Biology Department, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts.
A LONG HISTORY OF LEARNING THE HARD WAY: PLANNING BY CONSENT DECREE VS. COMMON SENSE.

1550 Sandra L. McFarlane. Town of Orleans Conservation Department, Orleans, Massachusetts.
IN SEARCH OF A SANE APPROACH TO COASTAL EROSION PROTECTION MEASURES.

1610 Robert Wall. Director, Center for Marine Studies, University of Maine.
AN OVERVIEW OF THE GULF OF MAINE REGIONAL MARINE RESEARCH PROGRAM.

1625 question and answer period.

1900-2200 Registration. NEERS registration desk, Oscar Wilde Courtyard.

1900- Beer Blast, Emmeline Pankhurst Room

Special Displays:

Mike Dadswell and Peggy Cove: Stalking the fierce igloo with gun and camera across the Nova Scotian tundra.

Veronica Berounsky (that's right, our President-Elect): Construction details of the canals of Mars.

Marshall Pregnall (right again, our Secretary-Treasurer): Experiences with reproduction in placental mammals: photos of my newborn son.

Additional display space available upon request.

Friday, 8 May

0500 Reveille

0600 Briefing for all speakers, Calvin Klein Room

0800-1200 Registration, B. Gratz Brown Room POSTER SESSION

Steven H. Jury. University of Massachusetts/NOAA Cooperative Marine Research Program, Amherst, Massachusetts.

NOAA'S ESTUARINE LIVING MARINE RESOURCES PROGRAM:
NORTHEAST COMPONENT.

Kathi Turner and Alan Young. Biology Department, Salem State College, Salem, Massachusetts.

ANALYSIS OF INORGANIC COMPOUNDS WITHIN THE IPSWICH RIVER ESTUARY.

Paper Sessions, Bella Abzug Room

K: Ketchum Prize candidate

R: Rankin Prize candidate

SESSION I

Presiding: Old Blue-Eyes

0830 Peter F. Larsen. Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, Maine.

TRACE METAL CONCENTRATIONS IN THE SEDIMENTS OF MID-COAST MAINE.

0850 C. N. Farris. Marine Ecosystems Research Laboratory, Graduate School of Oceanography, University of Rhode Island, Narragansett, Rhode Island.

K THE EFFECT OF TIDAL CYCLES ON THE EXCHANGE OF NUTRIENTS ACROSS THE SEDIMENT-WATER INTERFACE WITH AN ESTUARY.

0910 Michael LaMontagne (1), G. Smith (2), and J. Tiedge (3). 1: Boston University Marine K Program, Woods Hole, Massachusetts; 2: New Mexico State University; 3: Michigan State University.

APPLICATION OF DNA HYBRIDIZATION TO THE STUDY OF DENITRIFICATION.

0930 Michael P. Armstrong. Zoology Department, University of New Hampshire,
K Durham, New Hampshire.
OCCURRENCE, INTENSITY AND EFFECTS OF A MICROSPORIDIAN
PARASITE ON WINTER AND SMOOTH FLOUNDER FROM GREAT BAY
ESTUARY, NEW HAMPSHIRE.

0950 Jody Berman, Zoology Department, University of New Hampshire, Durham,
K New Hampshire.
INVASION OF THE GREAT BAY ESTUARY, NEW HAMPSHIRE,
BY *BOTRYLLOIDES DIEGENSIS*: ESTABLISHMENT, PERSISTENCE
AND INTERACTIONS WITH *BOTRYLLUS SCHLOSSER*/.

1010-1030 BREAK

1030 Suzanne Kelley and W. A. Niering. Botany Department, Connecticut College,
R New London, Connecticut.
ABOVE AND BELOW-GROUND PRODUCTIVITY OF HIGH MARSH
PLANT COMMUNITIES ON THE WEQUETECOCK-PAWCATUCK
TIDAL SALT MARSHES.

1050 Sarah C. Goslee and R. S. Warren. Botany Department, Connecticut College,
R New London, Connecticut.
ENVIRONMENTAL FACTORS AND VEGETATION CHANGE ON
THE WEQUETECOCK-PAWCATUCK TIDAL MARSHES,
STONINGTON, CONNECTICUT.

1110 M. A. Peck and P. E. Fell. Zoology Department, Connecticut College, New
R London, Connecticut.
RESTORATION OF INVERTEBRATE POPULATIONS ON IN
IMPOUNDED MARSH OF THE WEQUETECOCK-PAWCATUCK TIDAL
MARSH SYSTEM FOLLOWING REINTRODUCTION OF TIDAL
FLUSHING.

1130 E. A. Allen and P. E. Fell. Zoology Department, Connecticut College, New
R London, Connecticut.
FEEDING PATTERNS OF *FUNDULUS HETEROCLITUS* ON A RESTORED
IMPOUNDED MARSH AND ON ADJACENT UNIMPOUNDED AREAS OF
THE WEQUETECOCK-PAWCATUCK TIDAL MARSH SYSTEM,
STONINGTON, CONNECTICUT.

1150-1200 Ablutions

1200-1300 DINNER

SESSION II

Presiding: Elle McPherson

1300 Thomas E. Bigford. NOAA/National Marine Fisheries Service, Habitat and Protected Resources Division, 1 Blackburn Drive, Gloucester, Massachusetts.
HEIGHTENED ENVIRONMENTAL CONCERNS IN FISHERIES MANAGEMENT.

1320 Julia P. McMahon. Graduate School of Oceanography, University of Rhode Island,
K Narragansett, Rhode Island.
SEAWEED RESPONSE TO NUTRIENT ENRICHMENT - A MESOCOSM EXPERIMENT.

1340 Karina Nielsen. Biology Department, Brooklyn College-CUNY, Brooklyn, New York.
R RIBBED MUSSEL (*GEUKENSIA DEMISSA*) RECRUITMENT IN JAMAICA BAY, NEW YORK.

1400 D. R. Franz. Biology Department, Brooklyn College-CUNY, Brooklyn, New York.
TEMPORAL PARTITIONING OF GROWTH IN RIBBED MUSSELS IN JAMAICA BAY.

1420-1440 BREAK

1440 David M. Burdick and Frederick T. Short. Department of Natural Resources and Jackson Estuarine Laboratory, University of New Hampshire, Durham, New Hampshire.
EFFECTS OF WASTING DISEASE ON POPULATIONS OF EELGRASS CULTURED UNDER CHRONIC LIGHT AND NUTRIENT STRESSES.

1500 Noel C. Carlson and Frederick T. Short. Department of Natural Resources and Jackson
K Estuarine Laboratory, University of New Hampshire, Durham, New Hampshire.
DETERMINATION OF LIGHT REQUIREMENTS NECESSARY FOR SUCCESSFUL REESTABLISHMENT OF THE SEAGRASS *ZOSTERA MARINA* L.

1520 James E. Kaldy (1) F. T. Short (2), and D. M. Burdick (2). 1: Department of Plant
K Biology and Jackson Estuarine Laboratory; 2: Department of Natural Resources and Jackson Estuarine Laboratory, University of New Hampshire, Durham, New Hampshire.
THE RESPONSE OF EELGRASS MORPHOLOGY TO LIGHT AND NUTRIENTS

1540 Marshall Pregnell. Biology Department, Vassar College, Poughkeepsie, New York.
GROUNDWATER INPUT OF NITRATE IN BUZZARDS BAY, MASSACHUSETTS, RELATED TO HUMAN POPULATION DENSITY: EFFECTS ON MACROPHYTE NITRATE REDUCTASE.

1600-1610 BUSINESS MEETING

Presiding: President Townsend

Agenda: Secretary's Report

Treasurer's Report

NEERS Constitution Amendment and Other Stuff

1700 First Annual Paul Chanley Memorial Beer Can Stacking Contest, in the lobby.
Bring your own Paul Chanley Memorial Beer Cans.

1900 BANQUET. Donner Party Room.
Awarding of Ketchum and Rankin
Prizes Announcements
Kazoo recital by Sandy McFarlane

Saturday, 9 May

0600 Morning prayer and hymn sing, in the lobby
SESSION III

Presiding: Alfred E. Neumann

0900 J. M. Kresl, T. Bradbury, H. Stebbins, and S. Yarish. Project Oceanology,
Avery Point, Groton, Connecticut.
TEMPORAL AND SPATIAL CHANGES OF HYPOXIC CONDITIONS IN
THE THAMES RIVER ESTUARY.

0920 S. M. Yarish, M. Sbrolni, B. Williams, and K. Metivier. Project Oceanology,
Avery Point, Groton, Connecticut.
THE SEASONAL RELATIONSHIP BETWEEN DISSOLVED
INORGANIC NITROGEN AND HYPOXIA IN THE THAMES RIVER
ESTUARY.

0940 Mike Dadswell. Biology Department, Acadia University, Wolfville, Nova
Scotia. AQUACULTURE STRATEGIES EXPLOITING LIFE-HISTORY
QUIRKS OF SEA SCALLOPS.

1000 Johnes K. Moore (1) and Cindy DelPapa (2). 1: Biology Department, Salem
State College, Salem, Massachusetts; 2: Massachusetts Audubon: North
Shore, 346 Grapevine Road, Wenham, Massachusetts.
TIDE GATES, POCKET MARSHES, AND THE MYTH OF
WETLAND PROTECTION.

1020-1040 BREAK

1040 Robert Buchsbaum. Massachusetts Audubon Society, 58 Hesperus
Avenue, Gloucester, Massachusetts.
BIRDS IN THE BUFF: THE EFFECT OF NATURAL AND DEVELOPED
BUFFERS ON THE DISTRIBUTION OF BIRDS IN ESSEX BAY
(MASSACHUSETTS).

1100 Kenneth E. Key (1), M. J. Mickelson (1), M. A. Bothner (2), and C. M.
Parmentier (2). 1: Massachusetts Water Resources Authority, Boston,
Massachusetts; 2: U. S. Geological Survey, Woods Hole, Massachusetts.
DISTRIBUTION OF A SEWAGE-INDICATING BACTERIUM IN THE
SEDIMENTS OF BOSTON HARBOR AND THE MASSACHUSETTS BAYS.

1120 We have room here for a couple of out-of-pocket papers, or off-the-wall proposals, if anyone wishes to try this route. Potential victims should see the session chair early.

1200 Benediction and dismissal

Standby papers:

Peaches LaLagne and Jack McBurnie. Institute for Creative Aquatic Activities,
Boston Massachusetts.
THE PHYSICAL OCEANOGRAPHY OF WATERBEDS. 1. FIRST ORDER
ANALYSIS: THE OPEN CHANNEL ANALOG.

J. K. Moore. Biology Department, Salem State College, Salem, Massachusetts.
SOCIAL INTERACTIONS OF THE RETICENT BUNKIE (*AMATOR
TIMIDUS*) AND THE WINKING MATTRESS BACK
(*LECTODORSUM NICTANS*) IN CAPE COD DUNES.

FIELD TRIP

Bob Buchsbaum, Massachusetts Audubon, will lead a trip to either the Plum Island Sanctuary or the Parker River National Wildlife Refuge on Saturday afternoon. Sign up and get details at the registration desk.