

**THE NEW ENGLAND ESTUARINE RESEARCH SOCIETY  
SPRING MEETING, JUNE 2-4, 1994  
SALEM STATE COLLEGE  
SALEM, MASSACHUSETTS**

**PROGRAM**

**THURSDAY, 2 JUNE**

1200-1300 **REGISTRATION.** Salem Room, Alumni House, Salem State College South Campus.

**THURSDAY SYMPOSIUM  
RECENT STUDIES IN MASSACHUSETTS AND CAPE COD BAYS**

Presidential Hall, Alumni House, SSC South Campus Session Chair: Bernie Gardner, UMass--Boston

- 1300 Bernie Gardner. University of Massachusetts -- Boston.  
OPENING REMARKS
- 1310 Michael S. Connor, Paul Lavery and Kelly Coughlin. Massachusetts Water Resources Authority.  
STATE OF BOSTON HARBOR: 1993 -- AN ONGOING ASSESSMENT
- 1330 Wendy Smith Leo, L. M. Marx and A. C. Rex. Massachusetts Water Resources Authority.  
PRIORITIZING WATER QUALITY PROBLEMS
- 1350 Sam Cleaves. Salem Sound 2000.  
WATER QUALITY SAMPLING, CITIZEN INVOLVEMENT, AND THE MASS BAYS PROGRAM
- 1410 Barbara Nowicki<sup>1</sup>, John Kelly<sup>2</sup>, Edwin Requentina<sup>1</sup> and Donna Van Keuren<sup>1</sup>. <sup>1</sup>University of Rhode Island and <sup>2</sup>Batelle Ocean Sciences.  
DIRECT MEASUREMENTS OF NITROGEN LOSS THROUGH DENITRIFICATION IN BOSTON HARBOR AND MASSACHUSETTS BAY
- 1430 Bradford Chase. Cat Cove Marine Laboratory.  
MASSACHUSETTS BAY SMELT SPAWNING MONITORING PROGRAM

- 1450 **BREAK.** Juan Valdez. Columbian Coffee Growers Association.  
STIMULATORY EFFECTS OF HOT-WATER EXTRACTS OF *COFFEA ARABICA* AND  
*CAMELLIA SINENSIS* ON HUMAN NEUROMUSCULAR FUNCTION
- 1510 D. Carey and P. Murray. SAIC.  
HISTORICAL DEPOSITION OF INDUSTRIAL WASTE IN MASSACHUSETTS BAY
- 1530 P. Murray and D. Carey. SAIC.  
MAPPING SEDIMENT TEXTURE AT THE MASSACHUSETTS BAY DISPOSAL SITE
- 1550 Jeffrey Hyland. NOAA / NOS.  
SEDIMENT CONTAMINANTS IN MASSACHUSETTS AND CAPE COD BAYS
- 1610 Jay Moore and Jack R. Pitman. Salem Sound 2000  
SALEM SOUND 2000: THE TIDAL MIXING OF METAPHORES AND A SEAGRASS ROOTS  
APPROACH TO MARINE POLICY ON THE NORTH SHORE
- 1640 Bradley W. Barr. NOAA Stellwagen Bank National Marine Sanctuary.  
THE STELLWAGEN BANK NATIONAL MARINE SANCTUARY...A SANCTUARY FOR  
RESEARCH

1800-2359 **REGISTRATION & SOCIAL.** Commons Room, Salem State College South Campus.

NEERS 25th Anniversary Trivia quiz and celebration, stake-burning fire drills, testing Archimedes principle with supernatural beings, pentangle connect-the-dots games



## FRIDAY, 3 JUNE

0900-1200 **REGISTRATION** and public stoning of dues delinquents. Salem Room, Alumni House.

### PAPER SESSION 1

Presidential Hall, Alumni House

Session Chair: Mark R. Fregeau, Salem State College

[R=Rankin Prize Candidate / K=Ketchum Prize Candidate]

- 0930 Nancy D. Harrington. President, Salem State College.  
WELCOMING REMARKS
- 0940 Barbara L. Welsh. University of Connecticut.  
NEW MECHANISMS OF SEASONAL OXYGEN DEPLETION IN LONG ISLAND SOUND
- 1000 Michael LaMontagne and Robert Duran. Boston University Marine Program.  
SOURCES AND SINKS OF NITROUS OXIDE IN THE WAQUOIT BAY ESTUARINE SYSTEM
- 1020 **BREAK.** Refreshments. Salem Room, Alumni House.
- 1040 Lynn Beatty. University of Rhode Island.  
CHANGES IN THE BENTHIC COMMUNITY WITH SALINITY AND HABITAT TYPE
- 1100 J. E. Hughes. Rutgers University.  
SEASONALLY VARIABLE IMPACT OF A DEPOSIT-FEEDING POLYCHAETE ON  
SEDIMENTARY MINERALIZATION
- 1120 Ryan Davis and Frederick T. Short. University of New Hampshire.  
MITIGATING EELGRASS HABITAT LOSS THROUGH CONSTRUCTION OF AN  
UNDERWATER TERRACE
- R 1140 Dobb Mayo<sup>1,2</sup>, P. Colarusso<sup>3</sup>, S. Kaplan<sup>2</sup>, M. Liebman<sup>3</sup>, M. Chandler<sup>2</sup> and M. Farrington<sup>2</sup>. <sup>1</sup>Salem State  
College, <sup>2</sup>New England Aquarium, and <sup>3</sup>EPA.  
MACROINVERTEBRATES OF EELGRASS BEDS IN BOSTON HARBOR AND BROAD SOUND
- 1200-1330 **LUNCH.** Sandwiches, ghoulish, and *Hamamelis virginica* salad, or boil your own stew and brew  
(cauldron provided, but bat wings and newt eyes are in limited supply, so place orders now).

### PAPER SESSION 2

Presidential Hall, Alumni House

Session Chair: Marvin L. Roberts, Salem State College

- K 1330 Blair Cooper and Mike Dadswell. Acadia University.  
THE MOVEMENT, MORTALITY, AND GROWTH OF JUVENILE SEA SCALLOPS OFF MEISNER  
ISLAND IN MAHONE BAY, N.S.
- R 1350 Kerry Jo Guilfoyle. Hampshire College.  
THE EFFECTS OF HUMAN EXPLOITATION AND HURRICANE DAMAGE UPON  
MANGROVES
- R 1410 B. A. Shea<sup>1</sup>, K. Y. Liu<sup>2</sup> and R. S. Warren<sup>1</sup>. <sup>1</sup>Connecticut College and <sup>2</sup>Waterford High School.  
HISTORIC DEVELOPMENT OF THE MAMACOCKE TIDAL MARSH, WATERFORD, CT

1430-1500 **BREAK** and **POSTER SESSION**. Salem Room, Alumni House.

Edward J. Fiore, Jr. Brooklyn College CUNY.  
DIET VARIABILITY AND HABITAT UTILIZATION BY KILLIFISH IN JAMAICA BAY, NY.

A. A. Keller, P. Hargraves, H. Leon, G. Klein-MacPhee, C. Oviatt and J. Zhang.  
University of Rhode Island.  
THE EFFECTS OF ULTRAVIOLET-B RADIATION ON MARINE TROPHIC LEVELS DURING A  
WINTER-SPRING BLOOM

Jack R. Pitman. Salem Sound 2000.  
UNDERWATER MARINE PHOTOGRAPHS OF SALEM SOUND

Michael Morss<sup>1</sup>, David Colarusso<sup>1</sup> and Michael Moore<sup>2</sup>. <sup>1</sup>Stonehill College and <sup>2</sup>WHOI.  
QUANTIFICATION OF LIVER TISSUE DAMAGE IN WINTER FLOUNDER

1500 Veronica Berounsky<sup>1</sup>, K. R. Hinga<sup>1</sup>, V. Lee<sup>1</sup>, S. W. Nixon<sup>1</sup>, M. E. Q. Pilson<sup>1</sup>, A. Desbonnet<sup>1</sup>,  
A. Keller<sup>1</sup>, B. Kopp<sup>1</sup>, S. Pavignano<sup>1</sup> and D. W. Stanley<sup>2</sup>. <sup>1</sup>University of Rhode Island and <sup>2</sup>East  
Carolina University.  
EXAMINING ESTUARINE EUTROPHICATION: THE ROLE OF VOLLENWEIDER,  
CHLOROPHYLL, NITROGEN, AND TIDAL RANGE

1520 Joseph Graham.  
CONFIRMATION OF COASTAL "WATER TYPES" USING SECCHI DISC RECIPROCALLS AND  
EXTINCTION COEFFICIENTS; LARVAL HERRING RESEARCH

1540 Jody Berman. University of New Hampshire.  
DO ESTABLISHED COLONIES ALTER THE ABUNDANCE OR DISTRIBUTION PATTERN OF  
LATER ARRIVALS?

1600 Jerrard J. Whitten, Richard Langan, George E. Frick and Douglas E. Morris. University of New  
Hampshire.  
ECONOMIC POTENTIALS FOR AN AQUACULTURE-BASED OYSTER HARVEST IN NEW  
HAMPSHIRE

1630 **NEERS BUSINESS MEETING**. Presidential Hall, Alumni House.  
President Veronica Berounsky will present results of the NEERS questionnaire (send yours in today!) and  
report on the ERF Governing Board meeting, including announcing that ERF 1997 will be held in New  
England (but now you already know that).

1715-1800 Libations and lavations

1800-2000 **BANQUET & RANKIN / KETCHUM AWARDS**. Harrington Building (or outside if weather  
permits), SSC South Campus.

Jay Moore, NEERS Historian-for-Life, will give a post-banquet exposition on the 25 years of  
NEERS activities, including rarely told stories of the very first NEERS meeting.

**SATURDAY, 3 JUNE**

**PAPER SESSION 3**

Presidential Hall, Alumni House  
Session Chair: Alan M. Young, Salem State College

0900 Robert Buchsbaum. Massachusetts Audubon Society.  
PLUM ISLAND SOUND: WORKS IN PROGRESS

0920-1050

H. M. Weiss, D. Dauphinais, H. Dimmick, S. Dugas, L. Hahn, C. Hodson, J. LaPointe, C. Low,  
J. McBride, M. Meyers, C. Orban, E. Parham, M. Quinlan, T. Siekman, R. Stec, and S. Green.  
Project Oceanology.  
SPATIAL AND TEMPORAL VARIABILITY IN BOSTON HARBOR

1050 **BREAK.** Refreshments, Salem Room, Alumni House.

1110 R. Scott Warren and Erika L. Buck. Connecticut College.  
INVASION AND SPREAD OF *PHRAGMITES AUSTRALIS* ON THE TIDELANDS OF THE LOWER  
CONNECTICUT RIVER: PRELIMINARY FINDINGS

1130 Norbert A. Jaworski. Environmental Protection Agency  
COMPARISON OF THE NUTRIENT LOADINGS FOR THE SEVEN MAJOR ESTUARIES OF THE  
NORTH EAST

1150 Veronica Berounsky. President, NEERS.  
CLOSING REMARKS and Announcement of 25th Anniversary trivia quiz prize winners

1300-1500 **FIELD TRIPS** (?) BYOB (Bring Your Own Broom)

