

# THE NEW ENGLAND ESTUARINE RESEARCH SOCIETY SPRING MEETING, APRIL 27-29, 1995

YOKEN'S COMFORT INN CONFERENCE CENTER  
PORTSMOUTH, NEW HAMPSHIRE  
AND  
JACKSON ESTUARINE LABORATORY  
DURHAM, NEW HAMPSHIRE

Frederick Short, NEERS President-Elect and Local meeting organizer  
Jackson Estuarine Laboratory, University of New Hampshire  
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## MEETING PROGRAM

**Thursday, April 27, 1995**  
**SPECIAL SYMPOSIUM**  
**ESTUARINE MANAGEMENT**  
YOKEN'S CONFERENCE CENTER  
PORTSMOUTH, NEW HAMPSHIRE

- 9:00 Registration and coffee, Yoken's Comfort Inn Conference Center  
Anne Giblin, The Ecosystems Center, Marine Biological Laboratory, Session chair
- 10:00 Frederick Short, University of New Hampshire, Jackson Estuarine Laboratory  
INTRODUCTORY REMARKS
- 10:10 Jeffrey Taylor, Director, New Hampshire Office of State Planning  
AN OVERVIEW OF MANAGEMENT ISSUES FOR THE GULF OF MAINE

10:50 Mike Connor, Massachusetts Water Resources Authority  
USING MONITORING DATA TO TRIGGER MANAGEMENT DECISIONS: MWRA'S  
CONTINGENCY PLAN FOR DISCHARGING SECONDARY EFFLUENT TO MASS BAY

11:20 Judy Pederson, Manager, Coastal Processes and Commonwealth Relations, Massachusetts  
WALKING THE THIN LINE: A STATE PERSPECTIVE ON MANAGING COASTAL  
RESOURCES FOR THE FUTURE

12:00 Break

12:15 Buses leave from Yoken's Conference Center for bag LUNCH FIELD TRIP at Odiome Point

2:00 Buses leave Odiome Point for Yoken's Conference Center

Jane Tucker, The Ecosystems Center, Marine Biological Laboratory, Session Chair

2:30 William Hubbard, Coastal America Program (Northeast), US Army Corps of Engineers  
MANAGEMENT DECISION MAKING AND THE VIEW OF COASTAL AMERICA

3:10 Rosemary Monahan, Resource Protection Coordinator, US EPA  
NEEDS FOR REVIEWING AND EVALUATING MANAGEMENT DECISIONS

3:50 BREAK

4:10 Donald Scavia, Director, NOAA Coastal Ocean Program  
NEW DIRECTIONS FOR MARINE RESEARCH TO ANSWER MANAGEMENT NEEDS

4:50 Eugene Mei, University of Michigan, and Matthew Liebman, US EPA  
DEVELOPING MEASURABLE GOALS FOR REDUCTIONS IN POLYCYCLIC AROMATIC  
HYDROCARBONS (PAH) LOADINGS TO BOSTON HARBOR SEDIMENTS

5:20 Wrap-up

## **THURSDAY EVENING**

8:00 - 11:00

**REGISTRATION and SOCIAL**  
Yoken's Comfort Inn Meeting Room  
Portsmouth, New Hampshire

**Friday, April 28, 1995**  
**SESSIONS OF CONTRIBUTED PAPERS**  
YOKEN'S COMFORT INN CONFERENCE CENTER  
PORTSMOUTH, NEW HAMPSHIRE

**K** indicates Ketchum Prize presentations.

8:00-11:00 Meeting Registration, Yoken's Comfort Inn Conference Center

Bernie Gardner, University of Massachusetts at Boston, Session Chair

9:00 Dave Franz, NEERS President, Brooklyn College CUNY  
WELCOME

9:10 Roelof Boumans, University of New Hampshire  
THE SEDIMENT EROSION TABLE (SET) MEASUREMENT: AN INTEGRATED RESPONSE OF THE  
COASTAL AREAS TO WIDE-RANGING ENVIRONMENTAL FORCING

9:30 Jeff Hughes, Rutgers University  
EVIDENCE FOR ENHANCED CHEMOLITHOAUTOTROPHY IN RESUSPENDED  
SEDIMENTS FROM A SALT MARSH CREEK BED

9:50 <sup>K</sup>Norm Farris, University of Rhode Island  
SEASONALITY IN OXYGEN EXCHANGE RATES OF TWO SUBTIDAL MARSH HABITATS

10:10 <sup>K</sup>Tara Schraga, University of Rhode Island  
SPATIAL AND TEMPORAL VARIABILITY OF WATER COLUMN PARAMETERS  
(TEMPERATURE, DISSOLVED OXYGEN, CHLOROPHYLL a, SUSPENDED SOLIDS) IN THE  
NAUSET MARSH SYSTEM, CAPE COD NATIONAL SEASHORE

10:30 BREAK: NEERS stranger-than-truth poster session

Marshall Pregnell, Vassar College, Disorganizer and Succession Chair

Peter "Radiation" Burn, Suffolk University, Luke and Laura, General Hospital, and Erica  
Kane, All My Children  
HOT SHOT TYPE DEUX ERRORS: BIOTURBATION BY INFAUNA WITH NUKES

Bernie , McAlice, Darling Marine Center  
ATTENDANCE AT NEERS MEETINGS BY ALTERNATE MORPHOTYPES

Veronica Berounsky, University of Rhode Island  
THE NITRIFIERS IN US ALL: OBSERVATIONS ON CARBON ASSIMILATION WITHIN  
INCUBATION VESSELS OF INCREASING SIZE

10:50 Arthur Libbey, University of Connecticut  
THE IMPORT AND SIGNIFICANCE OF RECENT ADVANCES IN ANALYTICAL  
CHEMISTRY TO MARINE BIOLOGISTS

- 11:10 Lynn Beatty and Candace Oviatt, University of Rhode Island  
THE USEFULNESS OF ENCLOSURE EXPERIMENTS IN THE STUDY OF THE  
ECOLOGICAL EFFECTS OF CONTAMINANTS ON MARINE SYSTEMS
- 11:30 Charlene Long, The Buffum Group, and Robert Zottoli, Fitchburg State College  
ESTABLISHING THE DEVELOPMENTAL STAGES OF A POLYCHAETE (*Nereis riisei*  
Grube, 1857 -- ANNELIDA: POLYCHAETA: NEREIDAE) FROM MUSEUM SPECIMENS

11:50-1:00 LUNCH (On your own)

Scott Warren, Connecticut College, Session Chair

- 1:00 David Taylor, Scott Nixon, Steve Granger and Betty Buckley, University of Rhode Island  
COMPARATIVE IMPACTS OF NUTRIENT ENRICHMENT OF SHALLOW AND DEEP  
COASTAL MARINE SYSTEMS
- 1:20 Jack Kelly and Carl Albro, Battelle Ocean Sciences  
HIGH-RESOLUTION STUDIES OF WATER COLUMN PROPERTIES IN BOSTON  
HARBOR AND MASSACHUSETTS BAY
- 1:40 <sup>K</sup>Tara Toolan, Harvard University  
SEASONAL VARIABILITY IN RESPIRATION RATES AND BACTERIOPLANKTON  
PRODUCTION RATES IN MASSACHUSETTS BAY
- 2:00 <sup>K</sup>George Smith, University of Connecticut  
COPEPODS AND EUTROPHICATION IN LONG ISLAND SOUND (LIS)
- 2:20 BREAK
- 2:50 Robert Gamin and Linda Deegan, Marine Biological Laboratory  
CARBON, NITROGEN AND SULFUR ISOTOPES AS TRACERS OF ORGANIC MATTER  
FLOW IN THE PLUM ISLAND SOUND ESTUARY, MASSACHUSETTS
- 3:10 Marcia Bowen and Paul Geoghegan, Normandeau Associates  
EFFECTS OF THE RESUMPTION OF RECREATIONAL CLAMMING ON THE  
POPULATION OF *Mya arenana* IN HAMPTON HARBOR, NEW HAMPSHIRE
- 3:30 Marshall Pregnall, Vassar College  
AGE-SIZE STRUCTURE AND DISTRIBUTION OF A POPULATION OF PURPLE-HINGE  
ROCK SCALLOPS (*Crassadoma gigantea*) FROM AN OREGON ROCKY SUBTIDAL REEF
- 3:50 Bernie Gardner, University of Massachusetts at Boston  
NEERS ON INTERNET
- 4:10 **NEERS BUSINESS MEETING**

5:00-6:30 Walking tour of the entire New Hampshire coastline; round-about the rotary contest; stone skipping to the Isle of Shoals; Portsmouth Scrap Yard heavy metal concert by *Marian*, with a special appearance by MC-FT Short

6:30-9:00 **AWARDS BANQUET** (SIGN UP FOR THE BANQUET WHEN YOU REGISTER!!) Yoken's Comfort Inn, Portsmouth  
Presentation of Ketchum Prize, special anniversary entertainment and reflections by a panel of former NEERS Presidents (can you name them all in proper sequence?)

9:00-?? POST-BANQUET FESTIVITIES

The Rosa, et alia

**Saturday, April 29, 1995**  
**NEW ENGLAND ESTUARINE RESEARCH SOCIETY**  
**AND**  
**JACKSON ESTUARINE LABORATORY**  
**25TH ANNIVERSARY RETROSPECTIVE**  
JACKSON ESTUARINE LABORATORY  
DURHAM, NEW HAMPSHIRE

5:00 Frederick Short, UNH-JEL, Search for keys to the laboratory and the coffee pot

8:30 Bus departs from Yoken's Comfort Inn bound for Jackson Estuarine Laboratory

9:00 Ted Loder, NEERS Past-President, Professor of Earth Sciences and EOS, UNH and Win Watson, Director of the Center for Marine Biology,  
UNH OPENING REMARKS

9:20 **POSTER SESSION**

Glenn Crossin, Saud Abdulazziz Al-Ayoub, Hunt Howell and Win Watson, University of New Hampshire

THE EFFECTS OF TEMPERATURE ON LOBSTER (*Homarus americanus*) BEHAVIOR

Chris Dufort, Glenn Crossin, Hunt Howell and Win Watson, University of New Hampshire

THE USE OF BRADYCARDIA AS AN INDICATOR THAT LOBSTERS CAN SENSE CHANGES IN SALINITY

Eric Holt, Eric Strauss and Solange Brault, University of Massachusetts - Boston

DETERMINANTS OF SHARP-TAILED SPARROW (*Ammodramus caudacutus*)  
DISTRIBUTIONS ON CAPE COD

Nancy J. O'Connor, University of Massachusetts - Dartmouth  
CRUSTACEAN BIOLOGY: FACTORS INFLUENCING SPAWNING AND THE  
SETTLEMENT AND METAMORPHOSIS OF LARVAE

Ryan Davis and Fred Short, University of New Hampshire  
MORPHOLOGICAL ADAPTATIONS OF TRANSPLANTED EELGRASS (*Zostera marina* L.)

Christina Poitras, Mark Fregeau and Alan Young, Salem State College  
SEM STUDY OF HERMIT CRAB APPENDAGES

Andrew J. Schoudele, University of New Hampshire  
VARIABLE FRESHWATER DISCHARGE IN THE KENNEBEC, SHEEPSCOTT, AND THE  
DAMARISCOTTA, THE NUTRIENT PERSPECTIVE

10:00 BREAK and TOURS of the Jackson Estuarine Laboratory 10:15-

12:30 **TOURS** (SIGN UP WHEN YOU REGISTER!)

1. Eelgrass mitigation and restoration sites, Great Bay tour on University of New Hampshire  
*R/V Gulf Challenger*
2. Tidal rapids at Dover Point, a unique high-energy ecosystem. Bus trip down estuary to  
confluence of Little Bay and Piscataqua River.
3. Salt-marsh restoration at the Sandy Point Visitors Center of the Great Bay National Estuarine  
Research Reserve. Bus trip up estuary to the Squamscott River.
4. Nonpoint source pollution in the Great Bay Estuary. Outboard boat trip up the Oyster River.

12:30 LUNCH: Lobster picnic

1:30+ Buses leave for Yoken's Comfort Inn