

# New England Estuarine Research Society



SPRING MEETING

April 30 - May 2, 1981

HOSTS: EPA - Environmental Research Laboratory and the  
Graduate School of Oceanography, University of  
Rhode Island

MEETING SITE: The Dutch Inn, Narragansett, Rhode Island

## SCHEDULE:

### Thursday, April 30

- |             |   |
|-------------|---|
| 1900 - 2100 | Registration, Tropical Terrace, Dutch Inn   |
| 1900 - 2100 | Poster Set-up, Conference Room, Dutch Inn   |
| 1900 - ?    | Beer Blast (mixed drinks also available)<br>Slide Show and return appearance of the NEERS Kazoo<br>Band. Tropical Terrace (watch out for the parrots) |

### Friday, May 1

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|------|--|
| 0800 | Registration, Poster Set-up - Conference Room  |
| 0830 | Welcome - Dean John Knauss, Graduate School of<br>Oceanography, University of Rhode Island |

## - PAPER SESSION -

Session Chair - Barbara Welsh, University of Connecticut

- |      |  |
|------|--|
| 0835 | Temperature - salinity tolerance for a hermit crab<br>species collected from different geographic areas.<br>Alan M. Young, Nasson College  |
| 0855 | Effects of benzene on molting and osmoregulation in<br>juvenile <i>Callinectes sapidus</i> .<br>A.C. Cantelmo, L.H. Mantel, S. Goldberg and R.<br>Lazell, Ramapo College of New Jersey and City<br>College of New York |
| 0915 | The compatibility of copper with the American oyster<br>( <i>Crassostrea virginica</i> ).<br>Terence Hammar, East Falmouth, Massachusetts  |

- 0935            The removal of copper and iron in the Merrimack River Estuary.  
Jonathan Kim, University of Connecticut and Ted Loder, University of New Hampshire
- 0955            POSTER SESSION      munchies available
- 1035            The physiological state of planktonic bacteria in estuarine, shelf and oceanic waters as indicated by carbon to ATP ratios and frequency of dividing cells of *in situ* populations.  
J.M. Sieburth, R.F. Heffernan, D.A. Caron, P.W. Johnson, and C.M. Burney, University of Rhode Island
- 1055            Interrelation between summer pulses of the ctenophore *Mnemiopsis leidyi* and diatom blooms in Narragansett Bay.  
E.E. Deason and T.J. Smayda, University of Rhode Island
- 1115            The effects of tide and photoperiod on the structure of a summer estuarine Peracarid plankton assemblage.  
Stephen A. Grabe, Normandeau Associates
- 1135            Some effects of the New England red tide dinoflagellate on an estuarine copepod, *Eurytemora affinis*.  
Lesley J. Mills, EPA - Narragansett
- 1155            Utilization of macrotidal estuaries in the Upper Bay of Fundy by Shad (*Alosa sapidissima*) from eastern North America.  
Mike Dadswell, Biological Station, St. Andrews, N.B.
- 1215 - 1230    POSTER SESSION
- 1215            LUNCH

INVITED SESSION

Session Chair - Candace Oviatt, MERL-University of Rhode Island

"The future of the New England estuarine and coastal environments in the eighties" will be examined by invited speakers from government, from science, and from two users of Narragansett Bay - shellfishermen and a chemical company.

- 1330            Claudine Schneider  
Rhode Island Congresswoman; Washington, D.C. and Narragansett, R.I.

1355 Dennis Nixon  
Legal Counsel  
Rhode Island Shellfishermen's Association

1420 James Crowley  
Department of Communications Ciba  
Geigy Ltd., Cranston, R.I.

1445 Bostwick Ketchum  
Oceanographer, Woods Hole, M.A.

1510 COFFEE BREAK

- PAPER SESSION -

Session Chair Candace Oviatt, MERL - University of Rhode Island

1530 Tidal restriction: Its impact on the vegetation of six  
Connecticut coastal marshes.  
Charles T. Roman, University of Delaware, William A.  
Niering, R. Scott Warren, Connecticut College, and  
Thomas Steinke, Fairfield Connecticut Conservation  
Commission

1550 The Half-Moon Cove tidal power project:  
An Introduction.  
Peter F. Larsen, Bigelow Laboratory for Ocean  
Sciences

1610 Diego Garcia - An atoll estuary.  
Charles A. Menzie and J. Ryther, Jr., EG&G Environ-  
mental Consultants

1630 Ecological characteristics of the coastal islands of  
Maine, A report of work in progress.  
Philip W. Conkling, Forest Science Labatory, Durham,  
N.H.

1700 FUN AND GAMES AND SWIMMING BARSIDE

1800 DRINKING POOLSIDE

1900 DINNER - CONFERENCE ROOM

2100 BUSINESS MEETING - CONFERENCE ROOM

Saturday, May 2

- PAPER SESSION -

Session Chair - Ernest Ruber, Northeastern University

- 0830 A dietary study of the predator seastar *Astropecten americanus* from Nantucket Shoals.  
David R. Franz and Elizabeth Worley, Brooklyn College CUNT
- 0850 Investigation of the food habits of the cunner (*Tantogolabrus adspersus*), A Preliminary Report.  
Robert Sand, University of Rhode Island
- 0910 Behavioral competition between lobsters and cancer crabs in the rocky subtidal habitat.  
Denis Wang, University of Rhode Island
- 0930 Movement patterns of a salt marsh population of the meadow vole, *Microtus pennsylvanicus*.  
Jacqueline Winkler, University of Delaware
- 0950 Seaward winter migration of the Atlantic Silverside: Export of biomass from salt marsh to offshore communities.  
David O. Conover, University of Massachusetts and Steven A. Murawski, NMFS, Woods Hole, M.A.
- 1010 COFFEE BREAK - aspirin available.
- 1030 Development of a larval fish identification manual for Gulf of Maine estuaries: why and how.  
B. Paul Lindsay, Normandeau Associates and Richard F. Shaw, University of Maine
- 1050 Diel vertical migration of *selected species* of fish larvae from the Hampton-Seabrook area of N.H., during May 1979 and 1980.  
Holly P. Allaire, Normandeau Associates
- 1110 Observations on lobster populations in coastal harbors and channels of Maine.  
Gib Chase, U.S. Army Corps of Engineers
- 1130 Scallops in Pleasant Bay: A question of large seed.  
Sandra Libby, Town of Orleans Shellfish Department, David Chadwick, Mass. Division of Mar. Fisheries, W.E. Wehling, W.E. Robinson and M.P. Morse, Northeastern University

1150 A review of man's past shellfishing practices, their effects, and a suggested alteration of management policies.  
R.S. Appledoorn and Theodoric of York: Medieval Malacologist, University of Rhode Island

Lab tours will depart sometime after the papers are finished (Note sign up sheets at Registration).

STANDBY PAPERS

Friday morning Trace metals in the mussel *Mytilus edulis*: Natural fluctuations and response to disposal activities.  
John K. Watson and S.Y. Feng, University of Connecticut

Friday afternoon Dynamic patterns of suspended particulates in a marsh-mudflat ecosystem.  
B.L. Welsh and P. Baillie, University of Connecticut

Saturday morning Storm-associated movement of benthic macrofauna into the water column.  
J.M. Vozarik and F.C. Dobbs, Millstone Environmental Laboratory

POSTER SESSION

1. SEASCOPE, Rhode Island's Marine Study Center.  
Peter D. Ackerman
2. Effects of cadmium and salinity on the hemolymph ion concentrations in *Mytilus edulis*.  
LeBaron Briggs and Henry Werntz, Northeastern University
3. Joint Action for Water Solutions - a visual presentation.  
Coalition of Coastal Communities, Wakefield, R.I. and Save The Bay, Inc., Providence, R.I.
4. Benthic metabolism and nitrogen cycling along an estuarine trophic gradient.  
C.M. Doremus, S.H. Garber and V.M. Berounsky, University of Rhode Island
5. The effect of tide and wave action on the distribution of the common mud snail, *Ilyanassa (Nassarius) obsoletus*.  
Ralph W. Evans, Jr., City College - CUNY
6. An Ecological Characterization of the Coast of Maine. Craig Ferris, U.S. Fish and Wildlife Service, Concord, N.H.

7. Ecology of a tidal marsh dragonfly, *Erythrodiplax, berenice* (Insecta Odonata). Larry J. Kelts, Merrimack College
8. Associations in the *Mytilus edulis* - dominated fouling community. Daniel O'Neill, University of Rhode Island
9. Lagrangian mean circulation of Delaware Bay. Edwin Pape and Richard W. Garvine, University of Delaware
10. Variation of heavy metals in an estuarine clam population. Brian Perkins, US Coast Guard Academy
11. *Dyopedos (Dutlichia) monocanthus*, a styliiferous amphipod. Sheldon D. Pratt, University of Rhode Island, and H. Wes Pratt, NMFS-Narragansett
12. Marine Biology at the University of Bridgeport. Robert L. Singletary, University of Bridgeport
13. Behavior modification in *Eurytemora affinis* (Copepoda) by sublethal concentrations of copper and its consequences to predator - prey interactions. B.K. Sullivan, E. Buskey, P. Ritacco, and D.C. Miller, Environmental Research Laboratory, Narragansett
14. Rhode Island Coastal Lagoon Study: Geology, John Boothroyd; Hydrology, Malcolm Spaulding; Submerged Vegetation, Marilyn Harlin and Boyce Thorne Miller; Waterfowl, Stan Cobb; Fisheries, Richard Crawford; Nutrient Budgets, Scott Nixon, Barbara Furnas and Candace Oviatt; Management, Steve Olsen and Virginia Lee.

HOUSING: All events will take place at the Dutch Inn, Port of Galilee, Narragansett, RI, 02882 (401-789-9341). Please make your reservations directly with the Inn at least 2 weeks in advance. Identify yourself as a NEERS participant. Rooms are \$32 single, and \$39 double occupancy. All facilities will be open to us - pool, sauna, tennis, etc. Within walking distance are a convenience store, numerous restaurants, bars and local color.

Any other motels are at least a 15 minute drive away. Your best bets (in order of distance) are The Larchwood Inn, Main St., Wakefield (a nice old fashioned inn); Holiday Inn, Rt.1, South Kingstown (your typical); and the hostel at the University of Rhode Island (401-789-3929).