

New England Estuarine Research Society



SPRING MEETING

7, 8, 9 MAY 1987

Boothbay Harbor Inn, Boothbay Harbor, Maine

HOST

Bigelow Laboratory for Ocean Sciences

P R O G R A M

THURSDAY, 7 MAY 1987

1900 - 2100 REGISTRATION: Boothbay Harbor Inn

1900 BEER BLAST: Boothbay Harbor Inn - REMEMBER THE RUSTY ANCHOR!

FRIDAY, 8 MAY 1987

0800 - 1200 REGISTRATION: Boothbay Harbor Inn

PAPER SESSION - Is There Something Rotten in Southern New England?
BARBARA WELSH, CHAIRMAN

- 0825 Welcome. Charles S. Yentsch, Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, Maine.
- 0830 The Gaslight Era, Coal Tars, PAHs, Estuaries and Risk Assessment: How Do They Fit Together? Charles A. Menzie, Charles Menzie and Associates, Westford, MA.
- 0850 Physical Characterization of an Estuarine Cove for Receiving Water Toxicity Studies. E. Dettman and J. Paul, Environmental Protection Agency, Narragansett, RI.
- 0910 Greenwich Cove, RI: A Case Study in Effluent Toxicity Testing. C.J. Strobel and M.A. Heber, Science Applications International Corporation and S.C. Schimmel, Environmental Protection Agency, Narragansett, RI.
- *0930 Mercury in the Waters of Narragansett Bay. G.M. Vandal, University of Connecticut, Groton, CT.
- 0950 The New Bedford Harbor Project: Overview of a Superfund Site. Douglas C. Allen, E.C. Jordan Co., Portland, ME.

* Ketchum Prize Candidate

- 1010 BREAK
- 1030 The Buzzards Bay Project: An Update. Wendy Wiltze. Environmental Protection Agency, Boston. MA.
- 1050 The Long Island Sound Study. Rosemary Monahan, Environmental Protection Agency, Boston, MA.
- 1110 The Narragansett Bay Project: An Update. Katrina Kipp, Environmental Protection Agency, Boston, MA.
- 1130 Subdivision Control Law in Massachusetts and Its Ultimate Negative Impact on Inshore Marine Ecosystems. George R. Hampson, Woods Hole Oceanographic Institution, Woods Hole, MA.
- 1150 Marine Resource Management: A Function of Land Use Practices. Sandy Macfarlane, Town of Orleans, Shellfish Department, Orleans, MA.
- 1210-1330 LUNCH. Boothbay Harbor Inn
- PAPER SESSION - All Creatures Great and Small with Apologies to J. Herriot and H.B. Bigelow
BERNARD J. MCALICE, CHAIRMAN
- 1330 Aquaculture of *Crassostrea virginica* in a New England Estuary and Bioaccumulation of Tin and Hydrocarbons Associated with Anthropogenic Sources. Robert S. De Santo, DeLeuw, Cather and Company, East Hartford, CT.
- *1350 Epipellic Diatoms of Savin Hill Cove Intertidal. D.M. Gould, University of Massachusetts/Boston, Boston, MA.
- 1410 Investigating the Optical Properties of Marine Particles: A Flow Cytometric approach. S.G. Ackleson and R.W. Spinrad, Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME.
- *1430 Abundance, Distribution and Species Composition of meroplankton in Narragansett Bay. Paul W. Fofonoff, University of Rhode Island, Narragansett, RI.
- 1450 Vertical Distribution of Blue Mussel Larvae in Three Maine Estuaries. H. Hidu, University of Maine, Walpole, ME, and G. Podniesinski, Normandeau Associates, Portsmouth, NH.
- 1510 COFFEE
- *1530 Strange Attractors Suggest We Are Wasting Time Trying to Predict Some Fish Populations. B. Martin, University of Rhode Island, Narragansett, RI.

- 1 5 5 0 Physical Characteristics of Herring Egg Beds on the Eastern Maine Coast. David Stevenson, Maine Department of Marine Resources and Robert Knowles, Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME.
- 1610 Sea Scallop Bed Studies Using Manned Submersibles. Richard W. Langton. Maine Department of Marine Resources. West Boothbay Harbor, ME.
- 1630 The Legacy of Henry Bryant Bigelow. J. Logan, Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME.
- 1650 BUSINESS MEETING
- 1830 HAPPY HOUR, CASH BAR: Boothbay Harbor Inn
- 1930 BANQUET: Boothbay Harbor Inn

SATURDAY. 9 MAY 1987 - Please Note Concurrent Sessions!

PAPER SESSION I - Wanderings of Estuarine Ecologists
FREDERICK T. SHORT, CHAIRMAN

- 0845 Announcements
- 0850 Ten Years of the Zooplankton of the Estuarine Lakes of the Clouds, New Hampshire, in the Last Week of August: Long-term Sampling with a vengeance. Ernest Ruber, Northeastern University, Boston, MA.
- 0910 The Cause of the Current Eelgrass Wasting Disease. F.T. Short, D. Porter and L.K. Muelhstein, University of New Hampshire, Durham, NH, and University of Georgia, Athens, GA.
- 0930 Jamaica Bay Macrobenthos: Seasonal and Spatial Variability. David R. Franz, Brooklyn College, Brooklyn, NY.
- 0950 Fluorescent Monitoring of Bacterial Ingestion by Phagocytic Leucocytes in Winter Flounder, *Pseudopleuronectes americanus*. T.G. Daniels, University of Rhode Island and Environmental Protection Agency, Narragansett, RI.
- 1010 BREAK
- 1030 The Autecology of an Estuarine Deposit Feeder, *Saccoglossus kowalewskyi* (Hemichordata:Enteropneusta). L.A. Gypson, University of Connecticut, Groton, CT.
- 1050 The Mobile Macrofauna of Eelgrass Meadows in the Cape Cod National Seashore. K.L. Heck¹, K.W. Able², M.P. Fahay³ and C.T. Roman², ¹Marine Environmental Science Consortium, University of South Alabama, ²Rutgers University and ³National Marine Fisheries Service.

*1110 Juvenile Lobster Habitat in a Cape Cod Estuary. K.W. Able, K.L. Heck. M.P. Fahay and C.T. Roman, affiliations above.

1130 Nutrient Composition of Salt Marsh Biomass. E.C. Brainard and F.T. Short, University of New Hampshire, Durham, NH.

1150 Move to other room!

SATURDAY, 9 MAY 1987

PAPER SESSION II - The Gulf of Maine - Echoes of Henry Bigelow
DAVID W. TOWNSEND, CHAIRMAN

0845 Announcements

0850 The Mount Desert Island Biological Laboratory: Introduction and Review. Donald A McCrimmon, Mount Desert Island Biological Laboratory, Salisbury Cove. ME.

0910 The West Boothbay Harbor Environmental Data Collection: An Update. Laurice Churchill, Maine Department of Marine Resources, West Boothbay Harbor, ME.

0930 Estuarine and Shelf Surficial Sediment Variability Along the Southern Maine Coast. Joseph Kelley, Marine Geological Survey, Augusta, ME.

0950 Production and Modes of Nutrient Supply to the Inner Gulf of Maine. David W. Townsend, Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME.

1010 BREAK

1030 The Importance of Anaerobic Sediment Metabolism in the Gulf of Maine. John P. Christensen, Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME.

1050 Influence of Warm Core Gulf Stream Rings on the Northeast Channel and the Gulf of Maine. David A. Brooks, Texas A&M University, College Station, TX.

1110 A Quasi-Realtime Look at the Cooling of the Gulf of Maine. Wendell S. Brown, University of New Hampshire, Durham, NH.

1130 Current Status of Tide Modelling in the Gulf of Maine and Bay of Fundy. Ronald Hidu, Peter Sucsy and Bryan Pearce, University of Maine, Orono, ME.

1150 Future Directions in ARGO-Maine Research: Fisheries Oceanography of Coastal Maine. Larry M. Mayer, representing the ARGO-Maine Scientific Committee.

Standby Paper System Ecology of the Gulf of Maine. Dan Campbell, Maine Department of Marine Resources, W. Boothbay Harbor, ME.

POSTER SESSION: Boothbay Harbor Inn

Displays will be on view beginning Friday, A.M. Authors of the displays will attend them to answer questions before and after the banquet.

Video of physical characteristics of herring egg beds on the eastern Maine coast. David K. Stevenson and Robert L. Knowles, Maine Department of Marine Resources and Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME.

The Provasoli-Guillard Center for the Culture of Marine Phytoplankton: Structure, function and future. R.C. Selvin, T. Skinner and R.R.L. Guillard. Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME.

Microzooplankton distribution in the Sheepscot River estuary. B.J. McAlice, University of Maine, Walpole. ME.

Specific dynamic action and food preferences in periwinkles. S.E. Shumway^{1,2}, D.J. Crisp^{1,2} and R.J. Steneck³, ¹Maine Department of Marine Resources, ²Bigelow Laboratory for Ocean Sciences and ³University of Maine.

KETCHUM PRIZE: A prize of \$100.00 will be awarded to the student who, in the opinion of the prize committee, presents the best paper in terms of scientific content and in clarity and professionalism of presentation (including graphics). To be eligible, the student must be the sole author of the paper and may not have been a previous winner. All Ketchum Prize papers will be presented on Friday. Contributions towards the endowment fund for this prize would be greatly appreciated by NEERS.

ACCOMMODATIONS: The official hotel of the 1987 Spring NEERS meeting is the Boothbay Harbor Inn, Atlantic Avenue, Boothbay Harbor, Maine 04538 (207) 633-6302. Please make your reservations directly with Boothbay Harbor Inn by April 15, 1987 or as soon thereafter as possible. Please identify yourself as a NEERS member, because they are not letting anyone else in. A hotel registration form is included herein for your convenience.

ESTUARINE RECEPTION: Our traditional beer blast to renew acquaintances, make new acquaintances, discuss ideas, rehash old theories, etc. will be held at the Boothbay Harbor Inn overlooking (you guessed it!) Boothbay Harbor, Thursday, May 7, starting at 1900 hours.

GULF OF MAINE MINI-SYMPOSIUM: Papers relating to the Gulf of Maine will be grouped as a mini-symposium for presentation on Saturday morning. A special registration of \$5.00 will be available at the door for persons wishing to attend only this stimulating Saturday session.

BANQUET: The banquet will be held at The Boothbay Harbor Inn on Friday evening. For \$12.00 (tax and tip included) you have a choice of a four course dinner featuring Teriyaki Chicken or Seafood Newburg. Indicate your preference on the registration form. The Ketchum prize will be awarded at this time.