

Program
NEERS Spring Meeting, May 3-5, 1990

Portland Regency Inn
Portland, Maine

Thursday, May 3, 1990

1900 - 2200 Registration and Traditional Beer Blast

Friday, May 4, 1990

0745 Registration

0825 Welcome; Dennis L. Taylor, Director, Bigelow Laboratory for Ocean Sciences.

Session I

Presiding: Ted Loder, University of New Hampshire

NOTE: There will be concurrent sessions between 1030 and 1400 hours.

- 0830 Bryan, B.B., The BSC Group, Inc. 425 Summer St., Boston, Mass. 02110.
 THE CENTRAL ARTERY/TUNNEL PROJECT AND BOSTON HARBOR:
 REGULATING CHANGE AFTER 350 YEARS.
- +0850 Riepe, Eric C., Dept of Science, U.S. Coast Guard Academy, New London, CT 06320
 RELATION OF COASTAL WAVE PATTERNS TO WAVE SURGE IN THE ORIENT
 POINT BOAT BASIN.
- +0910 Babionc, Michelle, Hampshire College; Ivan Valiela, Boston University Marine Program; Chi Ho
 Sham, Boston University; Charlene D'Avanzo, Hampshire College.
 LAND USE CHANGE IN THE WATERSHED OF WAQUOIT BAY, MASSACHUSETTS.
- 0930 La Montagne, Michael; Ivan Valiela, and Merryl Alber, Boston University Marine Program, Marine
 Biological Laboratory, Woods Hole, MA 02543 and George Hcufelder Barnstable County
 Health and Environmental Dept., Barnstable, MA.
 FECAL COLIFORM LOADINGS AND POOLS IN BUTTERMILK BAY, MASS., AND
 MANAGEMENT IMPLICATIONS.
- +0950 Watkins, T. and A.M. Pregnall, Biology Department, Vassar College, Poughkeepsie, NY.
 EFFECTS OF TEMPERATURE, PHOTOPERIOD, AND NITRATE AVAILABILITY ON
 NITRATE REDUCTASE ACTIVITY IN EELGRASS (ZOSTERA MARINA).

1010 - 1030 BREAK

Session I Continued (Concurrent with Session II)

- *1030 Berounsky, V.M., Graduate School of Oceanography, University of Rhode Island,
 Narragansett, RI
 RATES OF NITRIFICATION AND THEIR IMPORTANCE TO THE
 NITROGEN CYCLE OF A COASTAL MARINE ECOSYSTEM.

* Ketchum Prize Candidate

+ Rankin Prize Candidate

- *1050 Hersh , D., Boston Univ. Marine Program, Marine Biological Laboratory, Woods Hole, MA.
INTERACTION OF GRAZING AND NITROGEN LOADING ON
PRODUCTION OF PHENOLICS IN SPARTINA ALTERNIFLORA.
- *1110 Banta, G.T., Boston University Marine Program, Marine Biological Laboratory, Woods Hole, MA
SEASONAL PATTERNS OF BENTHIC RESPIRATION AND NITROGEN
MINERALIZATION IN BUZZARDS BAY, MASSACHUSETTS: IMPORTANCE OF
TEMPERATURE, ORGANIC MATTER AND BENTHIC ANIMALS.
- 1130 Milliken, A.S., Taylor, D.I., Granger, S.L. and Nixon, S.W. Graduate School of
Oceanography, University of Rhode Island, Narragansett, RI.
DIEL METABOLISM IN COASTAL LAGOONS IN RESPONSE TO NUTRIENT
ENRICHMENT - A MESOCOSM EXPERIMENT.

Session II

Presiding: David Townsend, Bigelow Laboratory

- 1030 Ackleson, S.G., Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME
TOWARDS AN OPTICAL MODEL FOR MASSACHUSETTS BAY.
- 1050 Kelley, J.T., Maine Geological Survey, State House Station 22, Augusta, ME
ORIGIN AND EVOLUTION OF THE SEAFLOOR OF THE ESTUARIES AND INNER
CONTINENTAL SHELF OF THE WESTERN GULF OF MAINE.
- 1110 Orson, R.A., R.L. Simpson, School of Science and Mathematics, William Paterson College, Wayne,
New Jersey 07470 and R.E. Good, Center for Coastal and Environmental Studies and Biology
Dept., Rutgers University, Camden, New Jersey
RATES OF SEDIMENT ACCUMULATION IN A TIDAL FRESHWATER MARSH.
- 1130 Hale, S., E. Bishop, and S. Smith, Grad. School of Oceanography and Dept. of Natural Resources
Science, Univ. of RI, and Narragansett Bay Project, Narragansett, RI
A CENTRALIZED DATA MANAGEMENT SYSTEM FOR NARRAGANSETT BAY.
- 1150 - 1300 LUNCH

Session II (Continued, concurrent with Session III)

- 1300 Garrett, MJ. and W. Waldron, (1990) Sanford Ecological Services, Inc., 258 Main Street, Bourne, MA
DEVELOPMENT OF A COMPREHENSIVE MANAGEMENT PLAN
BUTTONWOOD BROOK IN DARTMOUTH, MASSACHUSETTS.
- 1320 Tucker, J., G.T. Banta, A.E. Giblin, and J.E. Hobbie, The Ecosystems Center, Marine Biological
Laboratory, Woods Hole, MA
FACTORS CONTROLLING DECOMPOSITION IN COASTAL MARINE
SEDIMENTS.
- 1340 Burn, P., R. Moore, R. Wilkinson, and H. Strauss, Dept. of Biology, Suffolk University and Division
of Nuclear Medicine, Massachusetts General Hospital
THE USE OF RADIOPHARMACEUTICALS FOR EVALUATION OF BOSTON HARBOR
WINTER FLOUNDER AND LOBSTERS.

Session III

Presiding: Mike Mazurkiewicz, University of Southern Maine

- 1300 Incze, Lewis S. ¹, Richard A. Wahle² and Terri Ainaire ¹. 1/ Bigelow Laboratory, W. Boothbay Harbor, ME; 2/ Ira C. Darling Center, University of Maine, Walpole, ME.
LARVAL LOBSTERS AND THE RECRUITMENT PROBLEM: STUDIES IN AND AROUND JOHNS BAY, MAINE.
- + 1320 Beatty, K., Fisheries Department, University of Massachusetts, Amherst, MA.
ABIOTIC FLUCTUATIONS AS DETERMINANTS OF SALT MARSH DIVERSITY.
- 1340 Drapeau, D.T., B.L. Welsh, F.C. Eller, and J.M. Johnson, Dept. of Marine Sciences, The University of Connecticut, Groton, CT
THE ROLE OF WATER COLUMN MICROHETEROTROPHS IN SUMMERTIME OXYGEN DEPLETION IN LONG ISLAND SOUND.
- 1400 Alber, M. and I. Valiela, Boston University Marine Program, Marine Biological Laboratory, Woods Hole, MA.
ASSIMILATION OF ORGANIC AGGREGATES BY BAY SCALLOPS.
- 1420 - 1444 BREAK
- *1440 Murphy, Sean C., Department of Forestry and Wildlife Management, University of Massachusetts, Amherst, MA.
THE ROLE OF HIGH SALT MARSH IN THE FISH PRODUCTION OF MAINE ESTUARIES, II; GROWTH.
- + 1500 Bailey, R. and L.A. Deegan, Dept. of Forestry and Wildlife, University of Massachusetts, Amherst, MA
FEEDING HABITS OF AGE 0 + WINTER FLOUNDER
- 1520 Lazzari, MA. and D.K. Stevenson, Maine Marine Resources Lab, West Boothbay Harbor, ME
WINTER OCCURRENCE OF LATE-SPAWNED ATLANTIC HERRING, CLUPEA HARENGUS, LARVAE IN THE SHEEPSHOT RIVER ESTUARY, MAINE.
- 1540 McFarlane, S., Town of Orleans Shellfish Department, Orleans, MA
THE EVOLUTION OF A MUNICIPAL QUAHOG MANAGEMENT PROGRAM: 1975-1990.

POSTER SESSION:

Kindblom, L. and H. Hidu, Darling Marine Center, University of Maine, Walpole, ME
THE ROLE OF EELGRASS IN THE SETTLEMENT OF MYTILUS EDULIS.

1600 BUSINESS MEETING

1800 Social Hour, Cash Bar

1900 **Banquet -**

Saturday, May 5, 1990

Session IV
Symposium on New England National Estuarine Research Reserves
Presiding: Clayton Penniman, Jackson Estuarine Laboratory

- 0830 Introduction (Clayton Penniman, Jackson Estuarine Lab)
- 0840 Beck, A., Narragansett Bay NERR.
NARRAGANSETT BAY RESERVE: AN OPPORTUNITY FOR RESEARCH.
- 0900 Gault, Christine, Waquoit Bay, NERR.
WAQUOIT BAY NERR.
- 0920 Penniman, Clayton, Jackson Estuarine Laboratory, Durham, NH 03824.
GREAT BAY NERR.
- 0940 List, James, Wells NERR.
WELLS NERR.
- 1000 BREAK

Session IV (Continued)
Research in the New England NERRs

- 1020 Peckol, P., Smith College.
EFFECTS OF NUTRIENT LOADING ON ALGAL GROWTH AND NUTRIENT UPTAKE.
- 1040 Mariano, C.G., Rizzo Assoc. & D.M. Fitzgerald, Boston University.
WAVE-CURRENT INTERACTION AT WELLS INLET, MAINE.
- 1100 Howell, W.H., W.N. Watson and A. Vetrovs, University of New Hampshire.
DISTRIBUTION OF LOBSTERS IN THE GREAT BAY ESTUARY, NEW HAMPSHIRE.
- 1120 Hubert, B., University of Rhode Island.
PROBING PRUDENCE PRECIPITATION POTENTIAL.
- 1140 Deegan, L.A., Ecosystem Center, MBL.
HABITAT USE BY ESTUARINE FISH ASSEMBLAGES ACROSS TWO BIOGEOGRAPHICAL REGIONS.
- 1200 ADJOURN

Session IV (Continued)
Tours of Wells and Great Bay NERRs

- 1400 List, James.
TOUR OF WELLS NERR.
- 1600 Penniman, Clayton, Jackson Estuarine Laboratory, Durham, NH 03824.
TOUR OF GREAT BAY NERR.