

New England Estuarine Research Society



SPRING MEETING

21-23 April 1983 Portland Club

156 State Street Portland, Maine

JOINTLY HOSTED BY

Ocean Process Analysis Laboratory, University of New Hampshire
and
Bigelow Laboratory for Ocean Sciences

Thursday, 21 April

1800-2100 Registration - Executive Inn, 695 Congress Street, Portland, Maine
1900-???? Beer Blast - Executive Inn

Friday, 22 Apr11

0800-1200 Registration - Portland Club, 156 State Street, Portland, Maine
-PAPER SESSION-
Session Moderator - Richard Langton, Maine Dept. of Marine Resources
0825 Introductory Remarks - Peter Larsen, Bigelow Lab. for Ocean Sciences
0830 Where are the bodies?
J.J. Graham, Maine Department of Marine Resources
0850 Isaacs-Kidd midwater trawl performance study.
A.J. Blott and J.F. Kenney, National Marine Fisheries Engineering
Group/University of Rhode Island
0910 *Aspects of reproduction of *Eurytemora hermani* (Calanoida) in the
Cornwallis Estuary.
Peggy Crawford, Acadia University
0930 *Production of *Eurytemora herdmani* in the Cornwallis River, Nova Scotia.
Gail S. Brown, Acadia University
0950 Additions to the *Chaetoceros* flora of Narragansett Bay.
J.E.B. Rines and P.E. Hargraves, University of Rhode Island
1010 BREAK
-PAPER SESSION-
Session Moderator - Peter LeB. Williams, Bigelow Lab. for Ocean Sciences
1040 *Effects of the trematode *Proctoeces maculatus* on the fecundity of *Crepidula
convexa* (Say).
Pamela Aitken-Ander, Brooklyn College (CUNY)

Friday, 22 April Continued

- 1100 Diurnal behavior in the starfish *Astropecten americanus* on the outer continental shelf.
C. Menzie and R. Gillmor, EG&G Environmental Consultants and C. Bryden, U.S. Geological Survey
- 1120 *Growth and mortality of *Arbacia punctulata* in Long Island Sound.
Jon A. Schmidt, University of Bridgeport
- 1140 The seasonal gonad/caecal reproductive cycle of *Asterias forbesi* - A progress report.
David R. Franz, Brooklyn College/CONY
- 1200-1320 LUNCH BREAK
-PAPER SESSION-
Session Moderator - Mark E. Hines, University of New Hampshire
- 1320 Reassessment of macroalgal exudation.
D.J. Carlson and M.L. Carlson, Naval Research Laboratory
- 1340 Nitrification and oxygen consumption by sediments.
John P. Christensen, Bigelow Laboratory for Ocean Sciences
- 1400 Is assimilatory nitrate reduction important in marsh sediments?
W.B. Bowden, Yale University
- 1420 *Guano powered production.
J.E. McKenna, Jr., University of Rhode Island
- 1440 Factors controlling bacteria abundance in a Bay of Fundy mudflat.
Leon Carmen, Bigelow Laboratory for Ocean Sciences
- 1500 BREAK
-PAPER SESSION-
Session Moderator - Ted C. Loder, University of New Hampshire
- 1530 *Spartina alterniflora* stem demography in a New England salt marsh.
J.M. Hartman, University of Connecticut
- 1550 *The role of herbivory and plant consumption in determining plant community structure in a New England salt marsh.
C.M. Cogswell, University of Connecticut
- 1610 *Utilization of a Minas Basin salt marsh-mudflat system by juvenile smooth flounder, *Liopsetta putnami* gill.
Brian Scully, Acadia University
- 1630 Food habits of fish on an intertidal mudflat in the Bay of Fundy.
G.N. Gratto, University of New Brunswick (Saint John)
- 1650 The influence of mudflats on the phytoplankton and zooplankton of the overlying water.
D.J. Carlson, D.W. Townsend, A.L. Hillyard and J. Eaton, Naval Research Laboratory, Bigelow Laboratory for Ocean Sciences and University of Maine
- 1710 BUSINESS MEETING
- 1830 Happy Hour - Portland Club
- 1930 Banquet - Portland Club
Estuarine science in the People's Republic of China.
B.L. Welsh, Marine Sciences Department, University of Connecticut and R.I. Welsh, Naval Underwater Systems Center
A Brief History of NEERS.
Jay Moore, NEERS Historian, Salem State College

* indicates Ketchum Prize candidate

Saturday, 23 April

-SPECIAL SESSION-

"Gulf of Maine-Georges Bank: Oceanography and Resource Management"

Session Moderator and Discussion Leader –

Judy Spiller, University of New Hampshire

- 0900 Physical Oceanography
Wendell S. Brown, University of New Hampshire
- 0930 Primary Productivity
Jerry Cura, EG&G Environmental Consultants
- 1000 BREAK
- 1030 Fisheries
Bob Edwards, National Marine Fisheries Service
- 1100 Resource Management
Pat Hughes, Massachusetts Coastal Zone Management Program
- 1130 Summary, Discussion, Question and Answer Period

Stand-by Papers

The role of organic matter in determining the surface charge of suspended particles in estuarine waters.

T.C. Loder, University of New Hampshire and P.S. Liss, University of East Anglia

Poster Papers

Incidence of fin necrosis in winter flounder, *Pseudopleuronectes americanus* (Walbaum), from New Haven Harbor.

Peter Auster and P. Pendoly, University of Connecticut and Schooner Inc.

The need for-an intercalibration program in the Northeast. Thomas Biksey, Battelle New England Marine Research Laboratory

The ecology of *Fundulus heteroclitus* in a Minas Basin salt marsh. John Brown, Acadia University

Preliminary observations on planktonic ammonia uptake in artificially eutrophied estuarine mesocosms: physiological versus ecological control.

Craig Doremus, Graduate School of Oceanography, University of Rhode Island

Early life history section, American Fisheries Society. Joseph J. Graham, Maine Department of Marine Resources

Sedimentary biogeochemistry in the Gulf of Maine.

Mark E. Hines, Mary Jo Spencer, Joyce B. Tugel, Rick Chormann, Wm. Berry Lyons and Galen E. Jones, University of New Hampshire

Trace metal profiles from Maine and New Hampshire nearshore sediments.

Wm. Berry Lyons and Henri E. Gaudette, University of New Hampshire

Stock characterization of migrant shad (*Alosa sapidissima*) in upper waters of the Bay of Fundy.

P.J. Williams, Acadia University