

New England Estuarine Research Society



SPRING MEETING
26-28 APRIL 1984
SPONSORED BY

BATTELLE
New England Marine Research Laboratory
397 Washington Street
Duxbury, MA 02332

Wednesday, April 25

Estuarine Chemistry Symposium, program attached.

Thursday, April 26

1900-2100 Registration—Conference Center in the Battelle Administration Building

1900-??? Beer Blast

Friday, April 27

0800-1200 Registration--Battelle Administration Building

0825 Welcome—A.P. Graffeo, Director, Battelle New England

PAPER SESSION I

Moderator: Dick McGrath, Battelle New England

0830 Fishing Activity and Suspended Material Concentrations Near a Dredge Spoils Disposal Site in Central Long Island Sound.

Winnick, K.B. and W.F. Bohlen, University of Connecticut

0850 Dumping on the Nephtys incisa-Yoldia limatula Community.

Pratt, S.D., University of Rhode Island

0910 Suitability of the Polychaete, Ophryotrocha costlowi Akesson, as a Bioassay Test Organism.

Curran, M.D. and J.A. Blake, Battelle New England

0930 Pollutants as a Possible Cause of a Reproductive Abnormality in Nucella lapillus from New England.

Pondick, J.S., University of Connecticut

*Indicates Ketchum Prize Candidate

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0950 *Copper, Eutrophication and the Physiological Performance of Mytilus edulis in a Simulated Environment.
Tracey, G.A., University of Rhode Island

1010 BREAK

PAPER SESSION II

Moderator: Ann Levandowski, Battelle New England

1040 *Seasonal Abundance and Diversity of Fishes in a Connecticut Salt Marsh.
Quinn, M.E., University of Bridgeport

1100 Open Marsh Water Management on Salt Marshes in Massachusetts: Effects on Habitat Usage by Birds in the First Year.
Lent, R.A., B.A. Harrington, J. Clarke, Manomet Bird Observatory and T. Hruby,
Massachusetts Audubon Society

1120 Reduction in Benthic Patchiness by Predators - the Importance of Scale.
Schneider, D.C., University of Rhode Island

1140 *Macroinvertebrate Community Structure in a Rehabilitated Trout Stream.
Wright, S.B., Northeastern University

1200-1320 **LUNCH BREAK**

PAPER SESSIONS III AND IV

****Will Run Concurrently****

PAPER SESSION III

Moderator: Tom Biksey, Battelle New England

1320 Patterns of Swimming Activity of Benthic Crustaceans over a Mudflat.
Gratto, G.W., University of New Brunswick

1340 Population Characteristics of the American Lobster, Homarus americanus, in Eastern Long Island Sound.
Landers, D.F., Jr. and M. Keser, N.U. Environmental Laboratory

1400 A Summer in Life of the Green Shore Crab, Carcinus maenus: A Report of a Preliminary Study of the Population Biology of the Crab.
Spencer, L.T., Plymouth State College

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1420 Factors that Affect the Distribution of Uca and Their Effect on the Sediment.
Greineder,
D.N., Waterford, Connecticut

1440 Induced Triploidy in the American Oyster - An Update.
Hidu, H., University of Maine

PAPER SESSION IV

Moderator: Veronica Berounsky, University of Rhode Island

1320 *Long-term Environmental Trends in the Great Bay Estuary, New
Hampshire-Maine: II. An Introduction to Non-Parametric Trend Analysis
and the Influence of "Far-Field" Effects of Estuary Hydrography.
Love, J.A., University of New Hampshire

1340 Primary Production of a Freshwater Tidal Wetland in the Lower Connecticut River
Estuary.
Holland, M.M. and M. MacConnell, College of New Rochelle

1400 *Chemical and Biological Influences of Ulva lactuca in Shallow Estuaries.
Johnson, D.A., University of Connecticut

1420 Does Molybdenum Availability Control the Nitrogen Cycle of Estuaries and Coastal Seas?
Howarth, R.W. and R. Marino, Marine Biological Laboratory; J.J. Cole, Carey
Arboretum; A. Hagstrom, University of Umea

1440 *Metals Pollution in the Providence River and Narragansett Bay as Recorded in the
Sediments.
Bricker Urso, S., University of Rhode Island

1500 **BREAK**

PAPER SESSIONS V AND VI

****Will Run Concurrently****

PAPER SESSION V

Moderator: Scott Carr, Battelle New England

1530 *An Improved Method for the Detection of Paralytic Shellfish Poisons.
Mosley, S.P., University of New Hampshire

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- 1550 Red Tide Induced Respiratory Irritation.
Nuzzi, R., Suffolk County Department of Health Services
- 1610 A Mass Mortality of Northern Bay Scallops, Argopecten irradians, Following a Severe Spring Rainstorm.
Tettelback, S.T., P.J. Auster, University of Connecticut;
E.W. Rhodes and J.C. Widman, Northeast Fisheries Center
- 1630 *Secondary Production of Gammarus mucronatus: The First Cohort. McCallion, K.M., Northeastern University

PAPER SESSION VI

Moderator: Betsy Brown, Battelle New England

- 1530 Distributional Ecology of an Estuarine Snail, Spurwinkia salsa.
Mazurkiewicz, M., University of Southern Maine
- 1550 Associations Between Wave Action, Exposure and Gastropod Shell Morphology.
Thomas, M.L.H., J.C.T. McEachreon, University of New Brunswick
- 161 Wells National Estuarine Sanctuary
Young, A.M., Laudholm Farm Trust
- 1630 Landsat Remote Sensing Application to Urban Waterfront Classification Using Thematic Mapper Data.
Richardson, K.A., University of Rhode Island
- 1710 **BUSINESS MEETING**
- 1830 **HAPPY HOUR—WINSOR HOUSE INN**
- 1930 **BANQUET—WINSOR HOUSE INN**
KETCHUM PRIZE AWARDED

Saturday, April 28

SPECIAL SESSION: Urban Estuaries

Moderator: Christine Werme, Battelle New England

Program attached.

POSTER PAPERS

The Effects of Fertilizer Enrichment and Clipping on the Growth and Survival of Transplanted Spartina alterniflora.

Aikenhead, J.L., New London High School

The Relative Importance of Environmental and Genetic Factors in the Determination of Short and Tall Forms of Spartina alterniflora.

Cairns, J., Waterford High School.

Intrinsic and Learned Manipulation of Solanum melongena (Solenaceae) Prior to Ingestion by Homo sapiens aestuarensis.

Cummings, E., K. McCallion, and E. Ruber, Northeastern University

An Inexpensive Moored Water Sampler for Investigating Chemical Variability.

Friederich, G.E., L.A. Codispoti, and P.J. Kelly, Bigelow Laboratory

Factors Affecting Recolonization of Salt Marsh Vegetation.

Hartman, J.M., University of Connecticut,

S.M. Merkel, A.E. Giblin, and R.W. Howarth, Marine Biological Laboratory

Osteology of the Sea Raven.

Honse, C.G. and D.S. Tolderlund, United States Coast Guard Academy

Benthic Macrophytes of Barnegat Bay, New Jersey.

Kennish, M.J., GPU Nuclear, R.E. Loveland, Rutgers University

Sulfate, Chloride and Molybdenum Relationships in the Baltic Sea.

Marino, R. and R.W. Howarth, Marine Biological Laboratory

Sulfate Reduction and Plant Growth in Salt Marsh Sediments.

Merkel, S.M., R.W. Howarth, R. Marino, and J.M. Hartman, Marine Biological Laboratory

The R.S. Friedman Cobscook Bay Laboratory

Carr, M.M., Suffolk University

Heavy Metals Concentrations in the Dogwhelk (Nucella lapillus) from Populations with Norman and Penis-bearing Females.

Miller, E.R., and J. Pondick, University of Connecticut

The Effects of Aeration and Salinity on Spartina alterniflora, Spartina patens, and Salicornia europea.

Milne, G.T., East Lyme High School

Hydrological Effects of Spartina Growth and Sulfur Porewater Chemistry in Salt Marsh Microcosms.

Peterson, B.J., R.W. Howarth, and R.H. Garritt, Marine Biological Laboratory

Zoogeography and the Predator-prey "Arms Race": An Analysis Based on Eriphia and Nerita, with New Data from the Northern Arabian Sea.

Reynolds, W.W. and M.E. Casterlin, Biothermal Research Institute

The Importance of Oxygen Diffusion Rates and Chemical Oxygen Demands in Influencing Vascular Plant Zonation Patterns on the Salt Marsh.

Yuhas, E.S., Groton High School



Special Session on Urban Estuaries

Saturday, April 28, 1984

Moderator: Christine E. Werme
Battelle New England Marine Research Laboratory

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- 830-905 William Lahey
Massachusetts Coastal Zone Management
"Protecting urban estuaries: the legal regime"
- 905-940 Judith M. Capuzzo
Woods Hole Oceanographic Institution
"Understanding sublethal pollutant effects
in the marine environment"
- 940-1015 Robert E. Hillman
Battelle New England Marine Research Laboratory
"Pathobiology in an urban estuary"
- 1015-1030 - **BREAK** -
- 1030-1105 Michael S. Connor
U.S. Environmental Protection Agency
"Estimating the public health risk of organic carcinogens
in fish in urban estuaries"
- 1105-1140 Robert J. Reimold
Metcalf & Eddy, Inc.
"Resource management decision making facilitation:
the Acushnet Estuary"
- 1140-1215 Eric Jankel
Narragansett Bay Commission
"Cleaning up urban estuaries: a practical view"