

NEW ENGLAND ESTUARINE RESEARCH SOCIETY

SPRING 2001 MEETING

31 MAY – 2 JUNE 2001

SALEM, MASSACHUSETTS

HOSTED BY

Salem 

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Thursday, May 31

10:00 AM – 4:15 PM Bioindicators Symposium & Meeting
Registration (Forten Hall, SSC)

5:00 PM – 7:00 PM Social & Meeting Registration (Essex Room,
Hawthorne Hotel)

Friday, June 1

9:00 AM – 4:30 PM Oral Presentations & Posters (Forten Hall,
SSC)

9:00 AM – 12:00 PM Meeting Registration (Forten Hall, SSC)

4:30 PM – 5:30 PM Business Meeting (Forten Hall, SSC)

7:00 PM – 10:00 PM Banquet (Lower Deck, Hawthorne Hotel)

Saturday, June 2

9:00 AM – 12:00 PM Oral Presentations & Posters (Forten Hall,
SSC)

1:00 PM – 3:00 PM Clambake & Tours (SSC Cat Cove
Aquaculture Lab)

PROGRAM:

Thursday, May 31, 2001

10:00 AM – 4:15 PM Bioindicators Symposium (Forten Hall,
Salem State College Library)

10:00 AM – 4:00 PM Meeting Registration (outside Forten Hall)

5:00 PM – 7:00 PM Social (Essex Room, Hawthorne Hotel)

Meeting Registration (outside the Essex Room)

SYMPOSIUM:

THE USE OF BIOINDICATORS TO ASSESS THE HEALTH OF NEW ENGLAND COASTAL HABITATS

Session Chair = Robert Buchsbaum, Massachusetts Audubon Society

10:00 Buchsbaum, R.N., Massachusetts Audubon Society, Wenham, MA 01984

WELCOME AND INTRODUCTION

10:10 Schweisberg, M.¹, and C. Wigand², ¹ U.S. Environmental Protection Agency, Boston, MA 02114; ² U.S. Environmental Protection Agency -NHEERL, Narragansett, RI 02882

BIOINDICATORS OF COASTAL WETLAND HEALTH: AN EPA PERSPECTIVE

10:35 Short, F.T., and D. M. Burdick, Department of Natural Resources, Jackson Estuarine Laboratory, University of New Hampshire, Durham, NH 03824, USA and K-S Lee, Section of Biological System, Pusan National University, Pusan, 609-735, Korea

DEVELOPMENT OF NUTRIENT POLLUTION INDICATOR USING EELGRASS *ZOSTERA MARINA* ALONG NUTRIENT GRADIENTS IN NEW ENGLAND ESTUARIES

10:55 Hughes, J.E and L.A. Deegan, The Ecosystems Center, Marine Biological laboratory, Woods Hole, MA 02543.

APPLICATION AND ADAPTATION OF AN INDEX OF BIOTIC INTEGRITY BASED ON ESTUARINE FISH COMMUNITIES

11:15 Colarusso, P.D., U.S. Environmental Protection Agency, Boston, MA 02114

EELGRASS, IT'S NOT JUST FOR NEERS ANYMORE

11:30 - 1:00 LUNCH (various local eateries of your choice)

1:00 Costa, J., Buzzards Bay Project.

THE DEVELOPMENT OF A NITROGEN INDEX FOR COASTAL WATERS

1:20 Keay, K. E., Massachusetts Water Resources Authority, Boston MA 02129

PERSPECTIVES ON THE USE OF INFAUNAL BENTHIC COMMUNITY DATA AS BIOINDICATORS

1:40 Pederson, J., Massachusetts Institute of Technology Sea Grant, Cambridge, MA 02139

A RAPID ASSESSMENT OF THE PRESENCE OF MARINE INVASIVE SPECIES ALONG THE COAST OF MASSACHUSETTS

1:55 Warren, R.S and P.E. Fell, Connecticut College, New London, CT 06320

SALT MARSHES: GENERAL PERSPECTIVES ON THE NOTION OF "MARSH HEALTH" RELATED TO PLANTS, FISH, AND MACROINVERTEBRATES

2:25 BREAK

2:45 Smith, J.P., and B.K. Carlisle, Massachusetts Bays National Estuary Program and Massachusetts Coastal Zone Management, Boston, MA 02144

THE DEVELOPMENT OF A MULTIMETRIC APPROACH FOR MEASURING ECOLOGICAL HEALTH OF SALT MARSH SYSTEMS, WITH A FOCUS ON AVIFAUNA AND VEGETATION

3:05 Dionne, M., S. Orringer, and T. Smith, Wells National Estuarine Research Reserve, Wells, ME, 04090

COASTAL HABITAT FUNCTION FROM A FISHEYE PERSPECTIVE

3:20 PANEL DISCUSSION:

BIOINDICATORS OF COASTAL HEALTH - DOES IT MAKE SENSE AND WHAT MORE DO WE NEED TO KNOW?

4:15 Adjourn

5:00 SOCIAL (Essex Room, Hawthorne Hotel)

NEERS REGULAR PROGRAM:

Friday, 1 June 2001

8:30 AM – 10:00 AM Poster Set-up (Forten Hall, Salem State College Library)

9:00 AM – 12:00 PM Meeting Registration (outside Forten Hall)

9:00 AM – 3:10 PM Oral Presentations (Forten Hall)

3:10 PM – 4:30 PM Poster Presentations (Forten Hall)

4:30 PM – 5:30 PM Business Meeting (Forten Hall)

7:00 PM – 10:00 PM Banquet (Lower Deck, Hawthorne Hotel)

MORNING CONTRIBUTED PAPER SESSION

Session Chair = Linda Deegan, Ecosystems Center, MBL

*denotes presenter **(K)** denotes Ketchum Prize candidate **(R)**
denotes Rankin Prize candidate

9:00 Welcome and Introductory Remarks - Linda Deegan, NEERS
President

9:10 *Dettmann, E.H., USEPA, NHEERL-Atlantic Ecology
Division, Narragansett, RI 02882; M. Liebman, USEPA, Region
1, Boston, MA; D.A. Flemer, USEPA, Office of Water,
Washington, DC; and J.S. Latimer, USEPA, NHEERL-Atlantic
Ecology Division, Narragansett, RI 02882

THE USEPA'S APPROACH FOR ESTABLISHING NATIONAL
NUTRIENT CRITERIA FOR ESTUARIES AND COASTAL
WATERS

9:30 (R) *Lawrence, C.R., Clarkson University, Potsdam, NY,
13699 and J.C. *Schwartz, Connecticut College, New London,
CT, 06320.

THE HISTORICAL EFFECTS AND FUTURE IMPLICATIONS
OF NITROGEN INPUTS ON THE EELGRASS COMMUNITIES
OF WEST FALMOUTH HARBOR, MA

9:50 (K) *Gaeckle, J.L., and F.T. Short, Department of Natural
Resources, Jackson Estuarine Laboratory, University of New
Hampshire, Durham, NH 03824

A PLASTOCHRONE METHOD FOR MEASURING LEAF
GROWTH IN EELGRASS, *ZOSTERA MARINA*

10:10 BREAK

10:40 *Buchsbaum, R.N, Massachusetts Audubon Society, Wenham, MA 01984 and W. Dalia. University of Massachusetts-Boston, Boston, MA

THE IMPACTS OF SALT MARSH HAYING ON THE VEGETATION COMMUNITY AND BIRD USE OF SALT MARSHES: A PRELIMINARY ASSESSMENT FROM PLUM ISLAND SOUND

11:00 (K) *Konisky, R.A. and D.M. Burdick. Jackson Estuarine Laboratory, University of New Hampshire, Durham, NH 03824

A SIMULATION MODEL TO PREDICT PLANT COMMUNITY RESPONSE TO HYDROLOGIC RESTORATION OF TIDAL-RESTRICTED SALT MARSHES

11:20 (K) *Hampf, H.H. Dept. of Biology, Northeastern University, Boston, MA, 02115

DISTRIBUTION AND MIGRATING BEHAVIOR OF *MELAMPUS BIDENTATUS* ON A MASSACHUSETTS SALT MARSH

11:40 *Ruber, E.¹, E. Smith^{1,3}, J. Card² and C. Pham¹, ¹ Biology Department, Northeastern University, Boston, MA 02115; ² Northeast Massachusetts Mosquito Control and Wetlands Management District; ³ Summer Fellow, Center for Excellence in Education

EFFECTS OF VECTOLEX[®] ON POPULATION DENSITIES AND BIOMASS PRODUCTION OF LARVAL SALT MARSH *AEDES SOLLICITANS*.

12:00-1:30 LUNCH (various local eateries of your choice)

AFTERNOON CONTRIBUTED PAPER SESSION

Session Chair = Mark Fregeau, Salem State College

1:30 Kremer, J. N., Marine Sciences, UCONN Avery Point, Groton, CT 06340

INCLUDING EXTREME PATCHINESS IN A MODEL OF MACROALGAE PRODUCTION

1:50 (K) Wilson, J. H., Yale Univ., School of Forestry & Environmental Studies, Sage Hall, New Haven, CT 06511

THE EFFECTS OF DOCKS AND MECHANICAL DISTURBANCE ON SUBMERGED AQUATIC VEGETATION IN TIDAL-FRESH HAMBURG COVE (LYME, CT)

2:10 *Franz, D. R. and I. Friedman, Brooklyn College CUNY, Brooklyn, NY 11210

EFFECTS OF MACROALGAE BLOOMS ON INTERTIDAL COPEPODS IN JAMAICA BAY, NY

2:30 (R) *Miller, M. S. and J. K. Buttner, Biology Department, Salem State College

THE SYMBIOTIC RELATIONSHIP OF RED HAKE AND SEA SCALLOPS AS A POSSIBLE MANAGEMENT TOOL

2:50 *Buttner, J.K., M. R. Fregeau and S. Weston, Cat Cove Aquaculture Laboratory and Biology Department, Salem State College

CAT COVE AQUACULTURE LABORATORY, A NORTH SHORE RESOURCE AND CATALYST FOR CHANGE

3:10 - 4:30 BREAK and POSTER SESSION

(D) denotes Dean Prize candidate

(D) *Ayers, E., and R. Versteeg,. Department of Earth and Environmental Engineering, Columbia University, New York, NY 10027

DEVELOPMENT OF AN AUTOMATED MONITORING SYSTEM FOR A CREATED POND AT GREAT KILLS PARK, STATEN ISLAND, NEW YORK

*Benoit, L.K., and R. A. Askins. Department of Zoology, Connecticut College, New London, CT 06320

EFFECT OF HABITAT FRAGMENTATION ON TIDAL MARSH BIRDS

(D) *Burdick, C.L., and F.T. Short, Dept. of Natural Resources, University of New

Hampshire, Durham, NH, 03824

A PROPOSAL TO DEVELOP A DONOR BED SELECTION MODEL FOR EELGRASS TRANSPLANTING

(D) *Emerson, S.T., Department of Marine Affairs, Washburn Hall, Kingston, RI

02881, and V.M. Berounsky, Graduate School of Oceanography, University

of Rhode Island, Narragansett, RI 02882

NARROW RIVER BIBLIOGRAPHY PROJECT

(D) *Evans, N.T., and F.T. Short, Dept. of Natural Resources, University of New

Hampshire, Durham, NH 03824

A PROPOSAL TO DEVELOP FUNCTIONAL TRAJECTORY

MODELS FOR TRANSPLANTED EELGRASS (*ZOSTERA MARINA* L.) BEDS IN THE GREAT BAY ESTUARY, NEW HAMPSHIRE

*Kooken, V., Salem Sound 2000, Salem, MA 01970; A. Hicks, Aquatic Invertebrates

Biomonitor, Amherst, MA.; B. Carlisle, Massachusetts Coastal Zone

Management, Boston, MA; J. Smith, Massachusetts Bays Program, Boston, MA.

WETLAND HEALTH ASSESSMENT TOOLBOX (W.H.A.T.)
CITIZEN MONITORING PROGRAM

*Maney , E. J., Jr. and C. McMannus, Northeastern University Marine Science Center, East Point, Nahant MA, 01908

A FISHERIES HABITAT SURVEY METHOD FOR NEAR SHORE ENVIRONMENTS UTILIZING SCUBA

(D) *Rawson, R.L., Jr., J.K. Light, S.M. Fairley, P.E. Fell and R.S. Warren,

Connecticut College, New London, CT 06320

IS FISH USE OF BRACKISH TIDAL MARSHES ALTERED BY THE INVASION OF *PHRAGMITES* ?

4:30 BUSINESS MEETING (Forten Hall)

7:00 BANQUET (Lower Deck, Hawthorne Hotel)

Presentations: Ketchum, Rankin, Dean Prizes; Honorary Membership(s)

Saturday, June 2, 2001

9:00 AM – 12:00 PM Oral Presentations (Forten Hall, Salem State College Library)

1:00 PM – 3:00 PM Clambake & Tours (Salem State College Cat Cove Aquaculture Laboratory)

CONTRIBUTED PAPER SESSION

Session Chair = Alan Young, Salem State College

9:00 *Arnofsky, P¹, A. Wilbur², S. Wolf³, and T. J. Fredette⁴ 1. ENSR Marine and Coastal Center, Woods Hole, MA 02543; 2. Massachusetts Coastal Zone Management, Boston, MA 02114; 3. ENSR International, Westford, MA 01886; 4. USACE, New England District, Concord, MA 01742

POST-CONSTRUCTION BENTHIC ANALYSES OF CAD CELLS IN INNER BOSTON HARBOR -- IS THIS A SUCCESSFUL SUCCESSIONAL PROJECT?

9:20 *Evans, M.A., D.Galya, J.Herberich, M.Scherer, ENSR International, 2 Technology Pk Dr., Westford, MA 01886, ENSR International, ENSR International, Marine Research Inc., Falmouth, MA 02540

ASSESSMENT OF COASTAL TRANSPORT IN CAPE COD BAY

9:40 *Geoghegan, P., R.A. Sher. Normandeau Associates Inc., 25 Nashua Road, Bedford NH 03110; and North Atlantic Energy Service Corp., Seabrook Station, Seabrook, NH 03874

LONG-TERM TRENDS IN DEMERSAL FISH ABUNDANCE OFF COASTAL NEW HAMPSHIRE

10:00 BREAK

10:20 Spencer, L. T., Natural Science Department, Plymouth State Collge, Plymouth, NH 03264

A VIRTUAL TRIP TO THE SEASHORE

10:40 *Burn, P.R., P. Spain, A. Ditullio, and M. Bellissimo. Biology Department, Suffolk University, Boston, MA 02114

THE PLANTS OF NELSON ISLAND AND OTHER WASTE PLACES (AND A MODEST PROPOSAL)

11:00 *Shields, R. F.: Lorain County Community College, Bay Village OH 44140 and D. Klarer, Old Woman Creek SNP and NEER, Huron OH 44839

GREAT LAKES ESTUARIES: MICROCOSMS FOR THE STUDY OF THE EFFECTS OF WATER LEVEL CHANGE

11:20 Herdendorf, C. E. The Ohio State University & Garfield Farms, Sheffield Village, OH 44054

GEOLOGICAL EVOLUTION AND HYDROLOGY OF GREAT LAKES ESTUARIES

11:40 *Klarer, D. Old Woman Creek SNP & NEER, Huron OH 44839 and K. Krieger, Heidelberg College, Tiffin OH 44883

STORMS AND GREAT LAKES ESTUARIES

12:00 Closing Remarks, Linda Deegan, NEERS President

1:00 CLAMBAKE and TOURS (Salem State College Cat Cove Aquaculture Laboratory)



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