

# NEERS Spring 2005 MEETING PROGRAM

## Meeting Synopsis

Thursday, April 28: 8:30 AM – 10:00 PM

Meeting Registration, Water to Water Symposium including Capstone Presentation by Ivan Valiela, Lunch, Welcoming Social

Friday, April 29: 7:30 AM – 11:00 PM (or beyond)

Meeting Registration, Contributed Oral Presentations, Lunch, Poster Session, Continued Oral Presentations, Business Meeting, Social, Awards Banquet, Listening and Dancing to Link Montana and the Roamin' Catholics

Saturday, April 30: 8:00 AM – 5:00 PM

Contributed Oral Presentations, Mini-symposium on Salt Marsh Restoration, Field trip to salt marsh restoration sites, Walking tour of Wellfleet Bay Wildlife Sanctuary

## Thursday, April 28, 2005

8:30 – 10:00 AM	Meeting Registration
9:30 AM – 5:05 PM	Water to Water Symposium
12:00 – 1:00 PM	Meeting Registration
12:05 – 1:15 PM	Lunch
5:00 – 7:00 PM	Meeting Registration
7:00 – 10:00 PM	Welcoming Social (Mass Audubon Wellfleet Bay Sanctuary)

## SPECIAL SYMPOSIUM

### Water to Water: Watersheds and the Estuaries They Affect

Session Chair=Sandy Macfarlane, Coastal Resource Specialists

**9:30** Welcome and Introduction – Sandy Macfarlane

**9:45** Eichner, E. M.

Cape Cod Commission, 3225 Main St., PO Box 225 Barnstable, MA 02630

IMPLEMENTING COASTAL WATER QUALITY PROTECTION ON CAPE COD:  
PAST, PRESENT, AND FUTURE

**10:05** Bowen\*, J. L., and I. Valiela

Boston Univ. Marine Program, Marine Biological Laboratory, Woods Hole, MA 02543

NITROGEN LOADS TO ESTUARIES: USING LOADING MODELS TO ASSESS  
THE EFFECTIVENESS OF MANAGEMENT OPTIONS TO RESTORE ESTUARINE  
WATER QUALITY

**10:25** Crusius\*, J.<sup>1</sup>, D. Koopmans <sup>1</sup>, J.F. Bratton <sup>1</sup>, M. Charette <sup>2</sup>, K. Kroeger <sup>2</sup>, P. Henderson <sup>2</sup>,  
L. Ryckman <sup>3</sup>, K. Halloran <sup>4</sup>, and J. Colman<sup>2</sup>

<sup>1</sup>USGS, Woods Hole, MA 02543; <sup>2</sup>Woods Hole Oceanographic Institution, Woods Hole,

MA 02543; <sup>3</sup>U. of Pennsylvania; <sup>4</sup>Bucknell University; <sup>5</sup>USGS, Northborough, MA  
SUBMARINE GROUNDWATER DISCHARGE TO SALT POND (CCNS)  
ESTIMATED FROM CONTINUOUS <sup>222</sup>Rn AND SALINITY MEASUREMENTS  
AND A BOX MODEL

**10:45 BREAK**

**11:05** Colman\*, J.A. and J.P. Masterson.

U.S. Geological Survey, Northborough, MA  
NUTRIENT LOADS AND ELEMENT RATIOS FROM SUBURBAN LAND INPUT  
OF NUTRIENTS CONTRIBUTED BY GROUND-WATER DISCHARGE TO  
COASTAL EMBAYMENTS, NORTHEASTERN USA

**11:25** Case, K. M.<sup>1</sup>, and L.E. Bireley\*<sup>2</sup>

<sup>1</sup>National Park Service, P.O. Box 395, 100 East River Road, Pleasant Valley, CT 06063  
<sup>2</sup>Lyme Land Conservation Trust, Inc., PO Box 1002, Lyme, CT 06371  
THE EIGHTMILE RIVER WATERSHED: PROTECTING OUTSTANDING WATER  
RESOURCE VALUES

**11:45** Howes\*, B.L.<sup>1</sup>, R.I. Samimy<sup>1</sup>, D.R. Schlezinger<sup>1</sup>, J. Ramsey<sup>2</sup>, and E. Eichner<sup>3</sup>

<sup>1</sup>School for Marine Science and Technology, UMASS-D., New Bedford, MA 02744  
<sup>2</sup>Applied Coastal Research and Engineering, Mashpee, MA 02649  
<sup>3</sup>Cape Cod Commission, Barnstable Village, MA 02630  
MASSACHUSETTS ESTUARIES PROJECT: SCIENCE TO SUPPORT ESTUARINE  
MANAGEMENT

**12:05 – 1:15 LUNCH**

**1:15** Mather, M.

University of Massachusetts, Amherst, MA, 01003  
CAN TOP FISH PREDATORS LINK COMPONENTS OF ESTUARY FOOD WEBS

**1:35** Larsen\*, P.F.

Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME 04575  
NUTRIENT SOURCES IN THE GULF OF MAINE MACROTIDAL ESTUARIES  
WITH SPECIAL CONSIDERATION OF DISTRIBUTIONS IN COBSCOOK BAY,  
MAINE

**1:55** Heufelder, G.

Barnstable County Department of Health and Environment  
PERFORMANCE OF DENITRIFYING SEPTIC SYSTEMS AT THE  
MASSACHUSETTS ALTERNATIVE SEPTIC SYSTEM TEST CENTER

**2:15** Tetrault, K.

Cornell Cooperative Extension of Suffolk County, Marine Environmental Learning Center,  
3690 Cedar Beach Road. Southold, NY, 11971  
THOUGHTS ON HOW TO INITIATE A COMMUNITY-BASED RESTORATION

EFFORT AND THEN KEEP IT ACTIVE, GROWING AND SUSTAINABLE.

**2:35** Lind, H.

Natural Resources Director, 555 Old Orchard Rd Eastham, MA 02642

MULTITASKING BIVALVES -- THE DELICIOUS FILTER FEEDERS

**2:55 BREAK**

**3:15** Robinson\*, K. W.<sup>1</sup>, R.B. Moore<sup>1</sup>, C. M. Johnston<sup>1</sup>, H.A. Walker<sup>2</sup>, E. H. Dettmann<sup>2</sup>, and L. J. Blake<sup>3</sup>

<sup>1</sup> U.S. Geological Survey, 361 Commerce Way, Pembroke, NH 03275;

<sup>2</sup> USEPA, ORD, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division, 27 Tarzwell Dr. Narragansett, RI 02882;

<sup>3</sup> New England Interstate Water Pollution Control Comm., Foot of John St., Lowell MA, 01852-1102

USING THE NEW ENGLAND SPARROW WATER-QUALITY MODEL TO  
EVALUATE NITROGEN FLUXES TO COASTAL WATERS

**3:35** Saunders\*, W.<sup>1</sup>, A.J. Garro<sup>2</sup>, and J. Peirce<sup>3</sup>

<sup>1</sup>Applied Technology & Management, Inc., 360 Thames St. Suite 1B, Newport, RI 02840;

<sup>2</sup> BETA Engineering, 315 Norwood Park South, Norwood, MA 02062;

<sup>3</sup>Massachusetts Department of Environmental Protection, Central Regional Office, 627 Main St., Worcester, MA 01608

DEVELOPMENT OF WATERSHED-BASED PLANS FOR MASSACHUSETTS

**3:55** Delaney, R. F.

HorsleyWitten Group, 90 Route 6A, Sandwich, MA 02563

LAND/OCEAN INTERFACE; A VISION FOR NANTUCKET SHELF

**4:15** Muth\*, R. M. and M. E. Mather

Dept. of Natural Resources Conservation, Univ.of Massachusetts, Amherst, MA 01003

A BIOSOCIAL APPROACH TO UNDERSTANDING AND RESOLVING  
ESTUARINE AND COASTAL-WATERSHED CONFLICTS

**4:35 SPECIAL CAPSTONE PRESENTATION BY:**

**Ivan Valiela, Recipient of the NEERS Achievement Award**

Boston Univ. Marine Program, Marine Biological Laboratory, Woods Hole MA 02543

WATERSHED/ESTUARY COUPLING: BIOLOGICAL, CHEMICAL, AND  
ISOTOPIC EVIDENCE, AND SOME USEFUL APPROACHES FOR  
MANAGEMENT

**5:05** Closing Remarks – Sandy Macfarlane

**7:00 – 10:00 PM** NEERS Welcoming Social, Mass Audubon Wellfleet Bay Wildlife  
Sanctuary

**Friday, April 29, 2005**

7:30 – 9:00 AM	Meeting registration
8:10 AM – 12:00 PM	Oral Presentations
12:00 – 1:20 PM	Lunch
1:20- 2:20 PM	Oral Presentations
2:20 – 3:40 PM	Poster Presentations
3:40 – 5:00 PM	Oral Presentations
5:00 PM	NEERS Business Meeting
6:00 PM	Social & Informal Poster Viewing
7:00 PM	Banquet and Award Presentations
9:00 PM	Listening and Dancing to Link Montana and the Roamin' Catholics

### MORNING CONTRIBUTED PAPERS SESSION

Session Chair = Pam Neubert, ENSR International

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

**8:10** Welcome and Introductory Remarks – Pam Neubert, NEERS President

**8:20** **(K)** York\*, J. K. and I. Valiela  
 Boston Univ. Marine Program, Marine Biological Laboratory, Woods Hole, MA 02543  
 LINKING NITROGEN ISOTOPIC PATTERNS TO WATERSHED LAND-USE IN  
 WAQUOIT BAY, MA ESTUARIES

**8:40** Dettmann\*, E. H.<sup>1</sup>, K. M. Henry<sup>2</sup>, L. B. Mason<sup>3</sup>, and A. Erhunse<sup>4</sup>  
<sup>1</sup>USEPA, ORD, National Health and Environmental Effects Research Laboratory, Atlantic  
 Ecology Division, 27 Tarzwell Drive, Narragansett, RI 02882  
<sup>2</sup>Graduate School of Oceanography, Univ. of Rhode Island, Narragansett, RI 02882  
<sup>3</sup>Department of Environmental Science, University of California, Riverside CA 92507  
<sup>4</sup>Florida Agricultural and Mechanical University, Tallahassee, FL 32307  
 RELATIONSHIPS BETWEEN NITROGEN AND CHLOROPHYLL  
 CONCENTRATIONS IN ESTUARIES AND BAYS

**9:00** Tucker\*, J.<sup>1</sup>, A.E. Giblin<sup>1</sup>, C.S. Hopkinson<sup>1</sup>, S.W. Kelsey<sup>1</sup>, and B.L. Howes<sup>2</sup>  
<sup>1</sup>The Marine Biological Laboratory, Woods Hole, MA, 02543  
<sup>2</sup>University of Massachusetts, Dartmouth, MA 02747  
 RESPONSE OF BENTHIC NUTRIENT FLUXES IN BOSTON HARBOR AND  
 MASSACHUSETTS BAY TO SEWAGE TREATMENT IMPROVEMENTS,  
 INCLUDING OUTFALL RELOCATION

**9:20** Carmichael\*, R. H.<sup>1,4</sup>, H. Clark<sup>2</sup>, and B. Walton<sup>3</sup>  
<sup>1</sup>Boston University Marine Program, MBL, Woods Hole, MA 02543  
<sup>2</sup>Falmouth, MA 02540, <sup>3</sup>Cape Cod Cooperative Extension & WHOI Sea Grant,  
<sup>4</sup>Current address: University of Maine at Machias, Machias, ME 04654  
 REMEDIATION OF EUTROPHICATION BY OYSTERS, *CRASSOSTREA*  
*VIRGINICA*

**9:40** Franz, D. R.

Biology Department, Brooklyn College CUNY, Brooklyn, NY 11210  
JAMAICA BAY RIBBED MUSSEL POPULATIONS – TOO MUCH OF A GOOD  
THING?

**10:00 BREAK**

**10:20 (R)** Phillips\*, R. A.<sup>1</sup>, and A. E. Giblin<sup>2</sup>

<sup>1</sup>Dept. of Earth and Environment, Mount Holyoke College, South Hadley, MA 01075

<sup>2</sup>The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA 02543

EFFECTS OF EUTROPHICATION ON CONCENTRATIONS AND SPECIATION  
OF COPPER, ZINC, AND LEAD IN WEST FALMOUTH HARBOR

- 10:40 (K)** Hallihan, B. H.  
Plant Science, Lehman College of City University of New York  
IMPACTS OF CADMIUM AND NICKEL ON DIATOM COMMUNITIES IN  
FOUNDRY COVE AND CONSTITUTION MARSH, HUDSON RIVER, NEW  
YORK
- 11:00 (K)** Grady\*, S.P. and I. Valiela  
Boston Univ. Marine Program, Marine Biological Laboratory, Woods Hole, MA 02543  
POPULATION DYNAMICS OF THE ATLANTIC HORSESHOE CRAB, *LIMULUS*  
*POLYPHEMUS*, IN CAPE COD ESTUARIES
- 11:20 (K)** Fried, H.A. and Schultz, E.T.  
Univ. of Connecticut, Department of Ecology and Evolutionary Biology, Storrs, CT  
USING HISTORICAL RECORDS TO RECONSTRUCT A SPECIES PAST, A  
REVIEW OF RAINBOW SMELT IN THE NORTHEAST UNITED STATES
- 11:40** Singletary, R. L.  
Biology Department, University of Bridgeport, Bridgeport, CT 06601  
OBSERVATIONS ON THE INTERSPECIFIC INTERACTIONS OF  
*AMBLYRHYNCHUS CRISTATUS* IN LAS ENCANTADAS

**12:00 LUNCH**

**AFTERNOON CONTRIBUTED PAPERS – ORAL PRESENTATIONS**

Session Chair = Marshall Pregnell, Vassar College

- 1:20 (K)** Rivers\*, D.O. and F. T. Short  
Dept. of Natural Resources, Jackson Estuarine Laboratory, University of New Hampshire,  
85 Adams Point Rd., Durham, NH 03824  
MONITORING THE DEEP EDGES OF EELGRASS (*ZOSTERA MARINA* L.)  
MEADOWS AS AN INTEGRATED ASSESSMENT OF ESTUARINE WATER  
QUALITY
- 1:40 (K)** Gaeckle\*, J.L., and F. T. Short  
Dept. of Natural Resources, Jackson Estuarine Laboratory, University of New Hampshire,  
85 Adams Point Rd., Durham, NH 03824  
EFFECTS OF EELGRASS (*ZOSTERA MARINA* L.) TRANSPLANT PATCH SIZE ON  
FISH ASSEMBLAGES
- 2:00** Short,\* F. T. and J. L. Gaeckle  
Dept. of Natural Resources, Jackson Estuarine Laboratory, University of New Hampshire,  
85 Adams Point Rd., Durham, NH 03824  
GLOBAL SEAGRASS MONITORING UPDATE
- 2:20 BREAK AND POSTER SESSION**

## POSTER PRESENTATIONS

\* denotes presenter, **(D)** denotes Dean Prize candidate, **(W)** denotes Warren Prize candidate

### *General Session*

Casanova\*, T.D., and M. Gilman

Cedar Island Marina Research Laboratory, Clinton, CT.

SUBTIDAL POPULATION DISTRIBUTION OF *HEMIGRAPUS SANGUINEUS* IN CLINTON HARBOR, CONNECTICUT

Duff\*, E.B.<sup>1</sup>, D. M. Burdick<sup>2</sup>, R. Buchsbaum<sup>1</sup>, and A. Ridlon<sup>1</sup>

<sup>1</sup>Massachusetts Audubon Society, 346 Grapevine Rd., Wenham, MA, 01984

<sup>2</sup>University of New Hampshire, Jackson Estuarine Lab, Durham, NH 03824

INTEGRATING SCIENCE AND EDUCATION AT THE PLUM ISLAND ECOSYSTEM LONG TERM ECOLOGICAL RESEARCH (PIE-LTER) SITE

**(W)** Dugas\*, K. D. and R. S. Warren

Department of Botany, Connecticut College, New London, CT

VEGETATION AND *PHRAGMITES AUSTRALIS* CONTROL IN CONNECTICUT RIVER TIDELANDS: ELEVATION, SALINITY AND PLANT COMMUNITIES ALONG A SALINITY GRADIENT.

**(W)** Foster\*, S.Q.<sup>1</sup> and A. Giblin<sup>2</sup>

<sup>1</sup>Hampshire College, Amherst, MA

<sup>2</sup>Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA

SEDIMENT RESPIRATION AND NITROGEN CYCLING ALONG A EUTROPHIC GRADIENT IN A SHALLOW, COASTAL ESTUARY

Hale, S. S.

USEPA, ORD, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division, 27 Tarzwell Dr., Narragansett, RI 02882

DEVELOPING AN INDEX OF BENTHIC CONDITION FOR THE COASTAL GULF OF MAINE

Larsen<sup>1\*</sup> P.F., T.J. Trott<sup>2</sup>, S. Barker<sup>3</sup>, B. Beal<sup>4</sup>, D.A. Brooks<sup>5</sup>, D.E. Campbell<sup>6</sup>, C.

Garside<sup>1</sup>, J.T. Kelley<sup>7</sup>, D.A. Phinney<sup>1</sup>, J. Sowles<sup>3</sup>, and R.L. Vadas<sup>8</sup>

<sup>1</sup>Bigelow Lab. for Ocean Sciences, McKown Point, West Boothbay Harbor ME 04575

<sup>2</sup>Friedman Field Station, Department of Biology, Suffolk University, Boston, MA 02114

<sup>3</sup>Maine Department of Marine Resources, Boothbay, ME 04575

<sup>4</sup>Dept. of Biology, University of Maine, Machias, ME 04654

<sup>5</sup>College of Geosciences, Texas A&M University, College Station TX 77843

<sup>6</sup>Environmental Protection Agency, Narragansett, RI 02882

<sup>7</sup>Dept. of Geological Sciences, University of Maine, Orono, ME 04469

<sup>8</sup>Dept. of Plant Biology and Pathology, University of Maine, Orono, ME 04469

ECOSYSTEM MODELING IN COBSCOOK BAY, MAINE: A BOREAL, MACROTIDAL ESTUARY

Masterson\*, J.P., D.A. Walter, K.M. Hess, and P.K. Weiskel  
U.S. Geological Survey, Northborough, MA  
RECHARGE AREAS TO WELLS, PONDS, STREAMS, AND COASTAL WATER  
BODIES, CAPE COD, MASSACHUSETTS

**(D)** Miller\*, E. E., R. M. Jones, R. S. Warren and E. C. Shields  
Department of Botany, Connecticut College, New London, CT  
EXPERIMENTAL NUTRIENT ENRICHMENT OF A NORTHERN  
MASSACHUSETTS SALT MARSH: VEGETATION MAPPING AND PLANT  
COMMUNITIES OF TREATMENT AND CONTROL CREEKSHEDES

Picard\*, C.<sup>1</sup>, L. Deegan<sup>1</sup>, B. Peterson<sup>1</sup>, M. Johnson<sup>1</sup>, C. Hopkinson<sup>1</sup>, J. Vallino<sup>1</sup>, J.  
Hobbie<sup>1</sup>, J. Fleeger<sup>2</sup>, K. Galvan<sup>2</sup>, D. Johnson<sup>2</sup>, C. Friedrichs<sup>3</sup>, L. LeMay<sup>3</sup>, S. Warren<sup>4</sup>, E.  
Miller<sup>4</sup>, and S. Sheldon<sup>5</sup>

<sup>1</sup>The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA 02543;

<sup>2</sup>Louisiana State University, Baton Rouge, LA 70803; <sup>3</sup>Virginia Institute of Marine  
Sciences, Gloucester Point, VA 23062; <sup>4</sup>Connecticut College, New London, CT 06320;

<sup>5</sup>Middlebury College, Middlebury, VT 05753.

TIDE: TROPHIC CASCADES AND INTERACTING CONTROL PROCESSES IN A  
DETRITUS-BASED AQUATIC ECOSYSTEM

Pratt\*, S., R. Ferrazza, and E. Campbell  
University of Rhode Island, Graduate School of Oceanography, Narragansett, RI 02882  
DEVELOPMENT OF A LONG-TERM MONITORING PROGRAM FOR BENTHIC  
MACROFAUNA AT THE CAPE COD NATIONAL SEASHORE

**(W)** Shields, E. C.\* , R. S. Warren, and E. E. Miller  
Department of Botany, Connecticut College, New London, CT  
N CONTENT AND C/N RATIOS IN *SPARTINA ALTERNIFLORA* AND *SPARTINA*  
*PATENS* IN RESPONSE TO NITROGEN AND PHOSPHOROUS FERTILIZATION  
IN A NORTHERN MASSACHUSETTS SALT MARSH

**(W)** Shumchenia\*, E.J.<sup>1</sup>, K.H. Ford<sup>2</sup>, and J.W. King<sup>2</sup>  
<sup>1</sup>Department of Biological Sciences, University of Rhode Island, Kingston, RI 02881  
<sup>2</sup>Graduate School of Oceanography, University of Rhode Island, Narragansett, RI 02882  
HABITAT MAPPING IN A RHODE ISLAND COASTAL LAGOON AS PART OF  
THE BAYMAP PROJECT

*Water to Water Symposium*

Bratton\*, J. F., V. A. Cross, D. S. Foster, J. F. Crusius, and J. H. List  
USGS, 384 Woods Hole Rd., Woods Hole, MA 02543-1598  
SUBMARINE HYDROGEOLOGY OF A GLACIATED COASTLINE: CAPE COD  
NATIONAL SEASHORE

Wickwire\*, W.T.<sup>1</sup>, C.A. Menzie<sup>2</sup>, J. Famely<sup>2</sup>, and A. Novak<sup>2</sup>  
<sup>1</sup>Menzie-Cura & Associates, Inc., 477 Congress Street, Fifth Floor, Portland, ME 04101  
<sup>2</sup>Menzie-Cura & Associates, Inc., 8 Winchester Place, Suite 202, Winchester, MA 01890

ASSESSMENT AND PLANNING APPROACHES IN WATERSHED  
ASSESSMENT: THE EMBAYMENT EUTROPHICATION CASE STUDY

**AFTERNOON CONTRIBUTED PAPERS – ORAL PRESENTATIONS, CONTINUED**

Session Chair = Marshall Pregnall, Vassar College

\* denotes presenter, **(K)** denotes Ketchum Prize candidate

- 3:40** Valentine\*, V.<sup>1</sup>, C. S. Hopkinson, Jr.<sup>1</sup>, T. L. Millette<sup>2</sup>, and C. D. Hayward<sup>2</sup>  
<sup>1</sup>The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA 02543  
<sup>2</sup>GeoProcessing Laboratory, Mount Holyoke College, South Hadley, MA 01075  
GEOMORPHOMETRIC PATTERNS AND TRAJECTORIES OF TIDAL MARSH  
CONDITION
- 4:00** Warren\*, R. S., E. E. Miller, E. C. Shields, and R. M. Jones  
Department of Botany, Connecticut College, New London, CT  
*SPARTINA ALTERNIFLORA* AND *SPARTINA PATENS* PRODUCTION IN  
RESPONSE TO EXPERIMENTAL EUTROPHICATION IN A NORTHERN  
MASSACHUSETTS ESTUARY
- 4:20** **(K)** Eberhardt\*, A.L.<sup>1</sup>, D. M. Burdick<sup>1</sup>, and M. Dionne<sup>2</sup>  
<sup>1</sup>Department of Natural Resources, University of New Hampshire, Durham, NH 03824  
<sup>2</sup>Wells National Estuarine Research Reserve Wells, ME 04090  
DECREASED CONNECTIVITY IN SALT MARSH CORRIDORS: THE IMPACTS  
OF ROAD CULVERTS ON ESTUARINE NEKTON COMMUNITIES AND  
MOVEMENT
- 4:40** Johnson, M.  
Marine Biological Laboratory, 7 MBL St., Woods Hole, MA 02543  
NEKTON UTILIZATION OF NEW ENGLAND HIGH MARSHES, THE  
IMPORTANCE OF LOW ELEVATION MARSH PLATFORM
- 5:00** **NEERS BUSINESS MEETING**
- 6:00** **SOCIAL & POSTER VIEWING**
- 7:00** **NEERS AWARDS BANQUET**  
Presentation of **SPECIAL ACHIEVEMENT AWARD** to Ivan Valiela  
Presentation of Student Presentation Awards
- 9:00** Listening and Dancing to **Link Montana and the Roamin' Catholics** at Jimmy D's

**Saturday, April 30, 2005**

8:00 – 9:50 AM Oral Presentations  
10:10 AM – 12:00 PM Mini-symposium on Salt Marsh Restoration

12:30 – 4:00 PM                      Field trip to Cape Cod salt marsh restoration sites  
4:00 – 5:00 PM                      Walking tour of Wellfleet Bay Wildlife Sanctuary

**FINAL CONTRIBUTED PAPERS SESSION**  
Session Chair = Robert Buchsbaum, Mass Audubon

\* denotes presenter

**8:00** Churchill\*, J.H.<sup>1</sup>, C. T. Hess<sup>2</sup>, and M. Bowen<sup>3</sup>  
<sup>1</sup>Department of Physical Oceanography, Woods Hole Oceanographic Institution, Woods Hole, MA 02543; <sup>2</sup>Physics Department, University of Maine, Orono, ME 04469;  
<sup>3</sup>Normandeau Associates, Yarmouth, ME 04096  
A TIDAL NODE AND TIDAL ASYMMETRY IN MAINE'S SHEEPSHOT RIVER ESTUARY, RESULTS OF A MODELING AND OBSERVATIONAL STUDY

**8:20** Hutson, W. H.  
Brown University, Providence, RI 02912  
MOUNT HOPE BAY SYMPHONY IN DM

**8:40** Stone\*, T.<sup>1</sup>, and R. Crawford<sup>2</sup>  
<sup>1</sup>The Woods Hole Research Center, Woods Hole, MA 02543  
<sup>2</sup>Nautilus Environmental Services, Centerville, MA  
ANALYSIS OF COASTAL WATER QUALITY WITH A MULTIPLE SENSOR INSTRUMENTED CATAMARAN (MUSIC) AND REMOTE SENSING

**MINI-SYMPOSIUM ON SALT MARSH RESTORATION**  
Session Chair = Robert Buchsbaum, Mass Audubon

**9:00** Introduction – Robert Buchsbaum

**9:10** Portnoy\*, J., S. Smith and E. Gwilliam  
Cape Cod National Seashore, 99 Marconi Site Road, Wellfleet, MA 02667  
STATUS OF TIDAL RESTORATION EFFORTS FOR 2500 ACRES OF RESTRICTED WETLANDS ON OUTER CAPE COD

**9:30** Smith\*, S. M., J.W. Portnoy, E. Gwilliam  
Cape Cod National Seashore, 99 Marconi Site Road, Wellfleet, MA 02667  
RESPONSES OF *PHRAGMITES AUSTRALIS* TO TIDAL RESTORATION AT CAPE COD NATIONAL SEASHORE

**9:50** BREAK

**10:10** Konisky\*, R.A.<sup>1</sup>, D.M. Burdick<sup>2</sup>, M. Dionne<sup>1</sup>, and H. A. Neckles<sup>3</sup>  
<sup>1</sup>Wells National Estuarine Research Reserve, Wells, ME  
<sup>2</sup>Jackson Estuarine Laboratory, Dept. of Natural Resources, Univ. of New Hampshire, Durham, NH; <sup>3</sup>USGS Patuxent Wildlife Research Center, Augusta, ME  
A REGIONAL ASSESSMENT OF SALTMARSH RESTORATION AND

MONITORING IN THE GULF OF MAINE

**10:30** Adamowicz\*, S.C.<sup>1</sup>, L.A. Wagner<sup>1</sup>, S. Whitford<sup>2</sup>, M.J. James-Pirri<sup>3</sup>, K.M. O'Brien<sup>1</sup>, G. Taylor<sup>1</sup>

<sup>1</sup>Rachel Carson National Wildlife Refuge, Wells, ME 04090

<sup>2</sup>Gulf of Maine Research Institute, PO Box 7549, Portland, ME 04112

<sup>3</sup>University of Rhode Island, Narragansett, RI 02882

VEGETATION AND NEKTON RESPONSE TO DITCH PLUGGING IN TWO MAINE SALT MARSHES: a 5 YEAR FOLLOW-UP

**10:50** Brawley\*, J.W.<sup>1</sup>, D.J. Yozzo<sup>2</sup>, W. Pabich<sup>3</sup>, M. Fobert<sup>4</sup>, and T. Benjamin<sup>4</sup>

<sup>1</sup>Battelle Memorial Institute, Duxbury, MA 02332

<sup>2</sup>1973 Barry A. Vittor & Associates, Inc., Lake Katrine, NY 12449

<sup>3</sup>Tetra Tech EM Inc., Cambridge, MA 02140

<sup>4</sup>Rizzo Associates, Inc., Framingham, MA 01701

A STUDY OF LONG-TERM ECOSYSTEM STATE CHANGE AS A RESULT OF PERTURBATION TO WINSEGANSETT MARSH, FAIRHAVEN, MA

**11:10** Warren\*, R. S.<sup>1</sup>, P. E. Fell<sup>1</sup>, and R. Rozsa<sup>2</sup>

<sup>1</sup>Connecticut College, New London, CT; <sup>2</sup>Office of Long Island Sound Programs, Connecticut Dept. of Environmental Protection, Hartford, CT

A QUARTER CENTURY OF LESSONS LEARNED: RESTORING ESTUARINE WETLANDS IN CONNECTICUT

**11:30** PANEL DISCUSSION

**12:00** Closing Remarks, Pam Neubert, NEERS President

**12:30 – 4:00** Field trip to Cape Cod salt marsh restoration sites

**4:00 – 5:00** Walking tour of Mass Audubon's Wellfleet Bay Wildlife Sanctuary