

NEW ENGLAND ESTUARINE RESEARCH SOCIETY

NEW ENGLAND ESTUARINE RESEARCH SOCIETY

PROGRAM OF THE FALL 2004 MEETING

21-23 OCTOBER 2004

BLOCK ISLAND, RHODE ISLAND

HOSTED & SPONSORED

BY

THE GRADUATE SCHOOL OF OCEANOGRAPHY
UNIVERSITY OF RHODE ISLAND

AND

US ENVIRONMENTAL PROTECTION AGENCY,
NHEERL,
ATLANTIC ECOLOGY DIVISION,
NARRAGANSETT, RI

AND

NATIONAL PARK SERVICE
UNIVERSITY OF RHODE ISLAND

AND

RHODE ISLAND SEA GRANT
UNIVERSITY OF RHODE ISLAND

Synopsis:

Wednesday, October 20 (Optional)

Arrive on Block Island, activities on your own

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Thursday, October 21: 12:30 PM – 10 PM
*Others arrive on Block Island, Registration, Lunch,
Oligotrophication? Symposium, Social, Dinner, Estuarine
Discussion Group*

Friday, October 22: 8:00AM – 10 PM
*Contributed Oral Presentations, Lunch,
Poster Session, More Talks, Social, Banquet, Student Awards,
Festivities*

Saturday, October 23: 8:00 AM – 12:30 PM, (to 5 PM =
Optional)
*Contributed Oral Presentations, Optional Box Lunch,
Optional Field Trip, Depart Block Island*

Meeting Program on following pages.

All talks take place in Victoria's Parlor and all posters and exhibits are in the Sunroom Wing of the Spring House Hotel, Block Island.

Wednesday, October 21, 2004 (optional)

3:00 PM Ferry departs Pt. Judith for Block Island

4:00 PM Arrive on island. Check into Hotel. Put up poster boards & set up projection equipment. Then on your own to tour the island, swim, practice your talk, etc.

6:00 PM Meet in Spring House Hotel foyer to go out to dinner.

Thursday, October 21, 2004

7:00 –9:00 AM Continental Breakfast, Spring House Hotel, or

8:30 AM Be at Block Island Ferry dock in Pt. Judith, RI, for ferry that departs at 9:00, or

10:30 AM Be at Block Island Ferry dock in Pt. Judith, RI, for ferry that departs 11:00 or as soon as filled.

Look for the NEERS table on the ferries so you can pick up

registration packets or register there.

12:00 Arrive on Block Island

12:15 – 1:15 PM Buffet Lunch in the Oceanfront Dining Room,
Spring House Hotel

(lunch is available if you are either staying at the Spring House
Hotel Thursday night or have pre-registered for symposium and
lunch)

12:30 – 3:30 PM NEERS meeting registration, foyer, Spring
House Hotel

1: 30 PM – 5:00 PM "Oligotrophication?" Symposium, Victoria's
Parlor, Spring House Hotel

SPECIAL SYMPOSIUM:

"Oligotrophication?" or What really happens when we attempt to
reduce the flux of nutrients in estuarine and coastal systems?

Session Chair = Walter Berry, USEPA

1:30 Welcome and Introduction – Walter Berry, USEPA and
Veronica Berounsky, GSO-URI

1:45 Scott W. Nixon

Graduate School of Oceanography, Univ. of Rhode Island,
Narragansett, RI 02882

CHANGING PERSPECTIVES ON NUTRIENTS IN
ESTUARIES

2:15 David I. Taylor

Massachusetts Water Resources Authority, 100 First Ave.,
Charlestown Navy Yard, Boston, MA 02129

WASTEWATER LOADING REDUCTIONS, AND THE
'OLIGOTROPHICATION' OF BOSTON HARBOR

2:45 R. Lawrence Swanson (presenter) and Robert E. Wilson
Marine Sciences Research Center, Stony Brook Univ., Stony
Brook, NY 11794-5000

3:15 BREAK

3:30 Christopher F. Deacutis

Narragansett Bay Estuary Program, URI Bay Campus,
Narragansett RI 02882

THE FUTURE OF NARRAGANSETT BAY: IT'S TOUGH
PREDICTING NEW ENGLAND WEATHER

4:00 Peter V. August

Coastal Institute, University of Rhode Island, Narragansett, RI
02882

HOW DO YOU DO COMPREHENSIVE MONITORING FOR
NUTRIENTS IN ESTUARIES? AN EXAMPLE USING
NARRAGANSETT BAY

4:30 PANEL DISCUSSION (but if you are not staying on the
island tonight, you have to leave now to catch the 5 pm ferry to
Point Judith.)

5:00 Symposium Adjourns

5:00 – 9:00 PM NEERS Welcoming Social, Victoria's Parlor,
Spring House Hotel

5:30 – 7:30 PM NEERS meeting registration, Foyer, Spring House
Hotel

6:00 PM ferry arrives from Pt. Judith with NEERS newcomers

6:30 – 8:30 PM Dinner served, Dining Room, Spring House Hotel
(Pick your own time to sit down to dinner)

6:00 – 9:00 PM Poster set up, Sunroom Wing, Spring House Hotel

8:30 PM - ? Estuarine Discussion Group in the Evening (EDGE),
Bristol Guesthouse, Spring House Hotel

Friday, October 22, 2004

(note: if you want to attend this morning's session before the break & you come by ferry, you MUST arrive on Thursday. Friday morning's ferry leave Pt. Judith at 9:00 AM and gets into Block Island at 10:00 AM)

6:45 AM – 7:45 AM Continental Breakfast, Dining Room, Spring House Hotel

6:45 AM – 7:45 AM Poster set-up, Sunroom Wing, Spring House Hotel

8:00 AM – 12:00 PM Meeting Registration, Foyer, Spring House Hotel

8:30 AM – 5:10 PM Oral & Poster Presentations

MORNING CONTRIBUTED PAPERS SESSION

Session Chair = Marshall Pregnall, Vassar College

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

8:30 Welcome and Introductory Remarks – Marshall Pregnall, NEERS President

8:40 Tuxbury*, S. M.¹, M. B. Denault¹, W. Norden², and W. Ferguson¹

¹Save The Bay, 434 Smith Street, Providence, RI 02908

²DOC Marine Conservation Unit, 53 Boulcott St., Wellington, New Zealand

EELGRASS, *ZOSTERA MARINA*, RECOVERY IN NARRAGANSETT BAY: RESTORATION LESSONS AND SUCCESSES IN A EUTROPHIC ESTUARY

9:00 (K) Rivers*, D. O., and F. T. Short

Dept. of Natural Resources, Jackson Estuarine Laboratory, Univ. of New Hampshire, Durham NH 03824

IMPACT OF GRAZING BY CANADA GEESE (*BRANTA*

CANADENSIS) ON AN EELGRASS (*ZOSTERA MARINA* L.)
MEADOW IN GREAT BAY ESTUARY, NEW HAMPSHIRE

9:20 (K) Harris*, L. and S. W. Nixon

Graduate School of Oceanography, University of Rhode Island,
Narragansett, RI 02882

MODELING GROWTH AND RESOURCE ALLOCATION OF
ZOSTERA MARINA A COMPARISON OF PREVIOUS MODELS
AND A NEW APPROACH

9:40 (K) Branco, A. B.

Univ. of Connecticut, Dept. of Marine Sciences, 1080
Shennecossett Road, Groton, CT, 06340

PREDICTING LIGHT ATTENUATION IN SHALLOW
COASTAL WATERS

10:00 BREAK (and some people may arrive from the ferry)

10:20 Abdelrhman, M. A.

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

THE LOCAL EFFECT TIME (LET) AND HOW IT
INCORPORATES ECOLOGY INTO RESIDENCE TIME

10:40 (K) Cole*, L. W.¹ , S. W. Nixon¹ , S. Granger¹ , B.S.
Kopp² , and H.A. Neckles²

¹Graduate School of Oceanography, University of Rhode Island,
Narragansett, RI 02882

²USGS Patuxent Wildlife Research Center, Augusta, ME 04330

EUTROPHICATION ASSESSMENT IN NORTHEAST
COASTAL PARKS

11:00 (K) Fulweiler*, R. W., and S. W. Nixon

Graduate School of Oceanography, University of Rhode Island,

Narragansett, RI 02882

A DIFFERENT KIND OF DAM: TERRESTRIAL
VEGETATION AND THE ANNUAL FLUX OF SILICA TO
LITTLE NARRAGANSETT BAY

11:20 (K) Calabretta*, C. J. and C. A. Oviatt

Graduate School of Oceanography, University of Rhode Island,
Narragansett, RI 02882

WILL A DECREASE IN ANTHROPOGENIC NUTRIENTS
AFFECT THE MACROBENTHIC COMMUNITY OF
NARRAGANSETT BAY, RHODE ISLAND?

11:40 Davey*, E. W., K. T. Perez, J. A. Cardin, R. L. Johnson,
K. J. Rocha and C. Wigand

USEPA, ORD, NHEERL, AED 27 Tarzwell Drive, Narragansett,
R.I. 02882, USA

APPLICATION OF 2&3D COMPUTER-AIDED
TOMOGRAPHY (CT) FOR THE VISUALIZATION AND
QUANTIFICATION OF THE ANTHROPOGENIC IMPACT ON
MARINE SEDIMENT AND MARSH COMMUNITIES
(see also demonstration during the poster session)

12:00 LUNCH

AFTERNOON CONTRIBUTED PAPERS SESSION

Session Chair = Pam Neubert, ENSR

1:15 (K) Longval*, B.A. and C.A. Oviatt

Graduate School of Oceanography, University of Rhode Island,
Narragansett, RI 02882

HOW USEFUL ARE OPTICAL COUNTING METHODS FOR
ESTIMATING ZOOPLANKTON ABUNDANCES?

1:35 (R) Oravitz*, S. F.¹, M. H. Wielenga¹, J. Jewett-Smith², and
D. A. Bodolus¹

¹Marine Science Program, ²Environmental Studies Program, East Stroudsburg University of Pennsylvania, 200 Prospect St., East Stroudsburg, PA 18301

WATER QUALITY ASSESSMENT AND DIATOM ASSEMBLAGE OF CHINCOTEAGUE BAY, VA

1:55 Giblin*, A.E.¹, W. Weston², G. Banta³, J. Tucker¹, A. Burnhard⁴, and C. S. Hopkinson¹

¹Marine Biological Laboratory, Woods Hole, MA, 02543;

²University of Georgia, GA; ³Roskilde University, Denmark;

⁴Connecticut College, CT

SALINITY EFFECTS ON THE NITROGEN CYCLE IN ESTUARIES

2:15 BREAK AND POSTER SESSION

POSTER PRESENTATIONS

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

(D) Fillis*, D. L.^{1, 2}, C. Wigand¹, R. McKinney¹, B. K. Carlisle³, M. Carullo³, and M. Charpentier⁴

¹ US EPA – NHEERL, Atlantic Ecology Division, 27 Tarzwell Drive, Narragansett, RI 02880; ² Yale University, School of Forestry and Environmental Studies, 205 Prospect St. New Haven, CT 06511; ³ Massachusetts Office of Coastal Zone Management, 251 Causeway Street, Boston, MA 02115; ⁴ CSC, 27 Tarzwell Drive, Narragansett, RI 02874 A SYSTEMATIC ASSESSMENT OF NEW ENGLAND COASTAL WETLANDS

Ford*, K.H.¹, J.W. King¹, M. Bradley², M. Stolt², J. Turenne³, P. August², J. Boothroyd⁴

¹University of Rhode Island, Graduate School of Oceanography, Narragansett, RI 02882-1197 ²University of Rhode Island, Natural Resources Science, Kingston, RI; ³United States Department of Agriculture, Natural Resources Conservation Service, Warwick, RI ⁴University of Rhode Island, Department of Geosciences, Kingston, RI.

THE MAPPING PARTNERSHIP FOR COASTAL SOILS AND SEDIMENT (MAPCOAST)

Kelsey*, S. W., J. Tucker, A. E. Giblin, and C. H. Hopkinson
The Ecosystems Center, Marine Biological Laboratory, 7 MBL St.
Woods Hole, MA 02543

BOSTON HARBOR SEDIMENT IMPROVING WITH REDUCED SEWAGE LOADING

Lussier*, S.M.¹, S. daSilva², R. W. Enser³, M. Charpentier⁴, S. M. Cormier⁵, and D. J. Klemm⁵

¹USEPA, Office of Research and Development, National Health and Environmental Effect Research Laboratory, Atlantic Ecology Division, Narragansett, RI; ²Univ. of RI, Kingston, RI; ³RIDEM, Providence, RI; ⁴CSC, Narragansett, RI; ⁵USEPA, National Exposure Research Laboratory, Ecological Exposure Research Division, Cincinnati OH

COMPLEMENTARY APPROACHES TO WATERSHED ASSESSMENT

Pesch*, C. E.¹, D. G. McGovern², S. Rego¹, G. Cicchetti¹, and J.S. Latimer¹

¹U.S. Environmental Protection Agency, Office of Research and Development, NHEERL, Atlantic Ecology Division, Narragansett, RI 02882

²CSC, 27 Tarzwell Dr., Narragansett, RI 02882.

PROPOSED USE OF LENGTH ALONG SHORELINE OF EELGRASS BEDS AS A MEASURE OF SUBMERGED AQUATIC VEGETATION (SAV) IN EMBAYMENTS

(D) Saffert*, H.¹, D. Smith¹, and A. Hanson^{1,2}

¹University of Rhode Island, Graduate School of Oceanography,
Narragansett, RI 02882-1197

²SubChem Systems Inc., URI Narragansett Bay Campus,
Narragansett, RI 02882

Prototype Testing of a Submersible Instrument to Detect Indicator
Bacteria and Monitoring Rhode Island Coastal Waters

(D) Tainsh*, R. D., and K. T. Killingbeck

Department of Biological Sciences, University of Rhode Island,
Kingston, RI 02882

INFLUENCES OF AN ANTHROPOGENIC GRADIENT IN
FERTILITY ON NUTRIENT CONSERVATION IN *IVA*
FRUTESCENS, A WOODY SALT MARSH PERENNIAL

Tucker*, J.¹, A.E. Giblin¹, C.S. Hopkinson¹, S.W. Kelsey¹, and
B.L. Howes²

¹The Marine Biological Laboratory, MA

²University of Massachusetts, Dartmouth, MA

MASSACHUSETTS BAY: BEGINNING TO SEE THE FOREST

Turek*, J.¹, L. Cavallaro¹, M. Stolt², T. Twohig², M. O'Reilly³,
S. Block⁴, M. Bailey⁵, and J. Peterson⁶

¹NOAA Restoration Center, Narragansett, RI; ²University of
Rhode Island, Natural Resources Sciences, Kingston, RI; ³Town
of Dartmouth, Dartmouth, MA; ⁴NOAA Restoration Center,
Gloucester, MA; ⁵AFS Hutton Fellow, NOAA Restoration Center,
Narragansett, RI; ⁶Vanasse Hangen Brustlin, Inc., Providence, RI
FOUR YEARS OF PRE- AND POST-RESTORATION
MONITORING OF A SOUTHEASTERN MASSACHUSETTS
SALT MARSH

Tuxbury*, S. M.¹, R. Riccio¹, M. Denault¹, W. Norden², S.

Cobb³

¹Save The Bay, 434 Smith Street, Providence, RI 02908

²DOC Marine Conservation Unit, 53 Boulcott St., Wellington, New Zealand

³University of Rhode Island, Kingston, RI 02881

USE OF BENTHIC INFAUNA TO CHARACTERIZE *ZOSTERA MARINA* TRANSPLANT BED MATURITY

Vlietstra, L. S. Department of Science, U.S. Coast Guard Academy, New London, CT 06355

TEMPORAL AND SPATIAL ABUNDANCE OF THE CTENOPHORE, *MNEMIOPSIS LEIDYI*, IN A VERTICALLY STRATIFIED ESTUARY ON LONG ISLAND SOUND

(W) Wielenga*, M. H.¹, S. F. Oravitz¹, J. Jewett-Smith², and D. A. Bodolus¹

¹Marine Science Program, ²Environmental Studies Program, East Stroudsburg University of Pennsylvania, 200 Prospect St., East Stroudsburg, PA 18301

SEASONAL DIATOM ASSEMBLAGES OF THE CHINCOTEAGUE BAY

AFTERNOON CONTRIBUTED PAPERS SESSION -
CONTINUED

3:30 Zogg, G.P.

Department of Biological Sciences, University of New England, Biddeford, ME 04005

DIFFERENTIAL RESPONSE OF LOW AND HIGH MARSH SOIL RESPIRATION TO NUTRIENT ADDITIONS

3:50 (K) Wozniak*, A.S.¹, C. T. Roman², M.-J. James-Pirri¹, S. C. Wainright³, and R. McKinney⁴

¹Graduate School of Oceanography, University of Rhode Island,

Narragansett, RI 02882; ²National Park Service, University of Rhode Island, Narragansett, RI 02882;

³United States Coast Guard Academy, New London, CT 06320

⁴ USEPA Atlantic Ecology Division, 27 Tarzwell Dr., Narragansett, RI 02882

USING CARBON ISOTOPIC RATIOS TO MONITOR ORGANIC MATTER FLOW PATTERNS IN TIDE-RESTORED SALT MARSHES

4:10 Cole*, M.L.¹, W. Ferguson¹, and R. McKinney²

¹Save The Bay, 434 Smith St., Providence, RI 02908

² US EPA Atlantic Ecology Division, 27 Tarzwell Dr., Narragansett, RI 02882

USE OF A STABLE ISOTOPIC METHOD IN A HABITAT RESTORATION CONTEXT

4:30 James-Pirri*, M.-J.¹, R. M. Erwin², and J. Taylor³

¹Graduate School of Oceanography, University of Rhode Island, Narragansett, RI 02882

²USGS Patuxent Wildlife Research Center, Dept. of Environmental Sciences, Univ. of Virginia, Charlottesville, VA 22903; ³ US Fish and Wildlife Service, Region 5, Newington, NH 03801

ASSESSMENT OF OPEN MARSH WATER MANAGEMENT (OMWM) ON SALT MARSH COMMUNITIES ALONG THE ATLANTIC COAST

4:50 Donnelly, G. M.

BIOSPEC Inc., Richmond Square Technology Center, Providence, RI 02906

EXPANSION OF BIG CORDGRASS ALONG THE SEEKONK RIVER

5:10 BUSINESS MEETING & ELECTIONS, Victoria's Parlor, Spring House Hotel

6:00 SOCIAL AND POSTER VIEWING Victoria's Parlor and Sunroom Wing, Spring House Hotel

7:00 BANQUET, Awards, Fun & games Dining Room, Spring House Hotel

Saturday, October 23, 2004

6:45 AM – 7:45 AM Continental Breakfast, Dining Room, Spring House Hotel

6:45 AM – 7:45 AM Take down posters

8:05 – 10:15 AM Special Session on Writing and Publishing, Victoria's Parlor, Spring House

10:35 AM – 12:25 PM Oral Presentations, Victoria's Parlor, Spring House Hotel

SPECIAL SESSION: SCIENTIFIC WRITING AND PUBLISHING

8:05 Welcome and Introduction – Charles Roman, National Park Service

8:15 Scientific Writing and Publishing
Stephen Threlkeld, Managing Editor of *Estuaries*

10:15 BREAK

FINAL CONTRIBUTED PAPERS SESSION
Session Chair = Charles Roman, National Park Service

10:35 Spencer, L. T.
Dept. of Biol. Sciences, Plymouth State University, Plymouth, NH

03264

THE AUSTRALIA REEF CUTTLEFISH (*SEPIA* SP.) A
TAPHONOMIC STUDY

10:55 Park*, S. and J. Baker

Massachusetts Office of Coastal Zone Management, Boston, MA,
02114

DESIGNING A RAPID RESPONSE PROTOCOL FOR MARINE
INVADERS IN THE STATE OF MASSACHUSETTS

11:15 Neubert, M. G.

Biology Department, Woods Hole Oceanographic Institution,
Woods Hole MA, 02543

PROJECTING RATES OF SPREAD FOR INVADING SPECIES

11:35 Hancock*, B.¹, J. Turek², J.Holly¹, N.Lazar³, A. Ganz³,
and J. Catena⁴

¹North Cape Shellfish Restoration Program, Jerusalem and
Narragansett, RI; ²NOAA Restoration Center, Narragansett, RI;

³RIDEM Division of Fish and Wildlife, Jamestown, RI; and

⁴NOAA Restoration Center, Gloucester, MA

STATUS OF AN OYSTER REMOTE SET PROGRAM IN
RHODE ISLAND COASTAL WATERS

11:55 Walker*, H.¹, S. Benyi¹, M. Charpentier², J. Copeland², E.
Dettmann¹, J. Kiddon¹, and C. Strobel¹

¹U.S. Environmental Protection Agency (USEPA), ORD, National
Health and Environmental Effects Research Laboratory, Atlantic
Ecology Division, 27 Tarzwell Dr., Narragansett, RI 02882;

²Computer Science Corporation, 27 Tarzwell Dr., Narragansett,
Rhode Island 02882

ELECTRONIC PUBLICATION OF DATA AND METHODS
FOR COASTAL MONITORING AND ASSESSMENT

12:15 Final Presidential Remarks, Pam Neubert, New NEERS

President

(John Kerry and G. W. Bush too busy to join us)

Presentation of the Stickleback Award by previous recipient Cindy DelPapa (IF there are worthy candidates).

12:25 Meeting Adjourned, box lunches available to those who pre-ordered them

12:30 Post meeting options:

- a. meet on porch of Spring House for 12:45 FIELD TRIP by van of Block Island natural sites led by Scott Commings of The Nature Conservancy which will end at the ferry landing in time for the 3 PM ferry to Point Judith
- b. tour island on your own and take ferries which leave for Point Judith at 3 PM or at 5 PM walk into town for lunch with colleagues and take 3 PM or at 5 PM ferry
- c. check out intertidal life at the little beach in front of the Spring House and catch 3 or 5 ferry

5:00 Last Ferry of the day to Point Judith, Return to "real" life.



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