

# New England Estuarine Research Society

## Spring Meeting 2000

### Eastland Hotel, Portland ME

#### Thurs. 18 May

2:30 PM Meet in lobby of Eastland Hotel to depart for waterfront and Eagle Tours boat trip along Fore River Estuary, Portland Harbor, and Casco Bay. Boat leaves at 3PM and returns at 5 PM. Travel directions to waterfront will be available at front desk for those who want to go directly to the boat. Sign up on pre-registration form and pay \$10 fee if you want to take the cruise!

5-7 PM Beer Blast in Rib Room and Meeting Registration.  
Please pre-register by April 25 to avoid late fees!  
April 25 is also the deadline for reserving hotel at our special rates !

Important note!! Dues for regular (non0student) members is \$15 rather than \$10 erroneously noted in pre-registration form. Please make up the \$5 difference at the meeting!

7:00 PM Dinner at Portland restaurants. Directions to local restaurants will be available.

#### Friday, 19 May (Eastland Ballroom)

(**K** indicates eligible for Ketchum Prize, **R** denotes Rankin Prize candidates)

8: 00 Continental breakfast

8:30 Scott Warren, NEERS President: Welcome

8:40 (**K**) Kalapasev\*, N., and D. Osgood, Department of Biology and Environmental Science, University of New Haven, West Haven, CT 06516 and R. Chambers, Department of Biology, Fairfield University, Fairfield, CT 06430.  
GROWTH STRATEGY AND DISTRIBUTION OF *PHRAGMITES AUSTRALIS*  
ALONG ESTUARINE GRADIENT

9:00 (**R**) Asselin\*, N. P.M. and R. S. Warren. Connecticut College, New London, CT 06320.  
IMPACTS OF *PHRAGMITES AUSTRALIS* INVASION AND CONTROL IN  
BRACKISH TIDAL WETLANDS: PATTERNS AND COMPOSTION OF  
SEDIMENT DEPOSITION

9:20 (R) Ebner\* Karen, Tammy Tuminelli, and Pamela A. Morgan, Department of Life Sciences, University of New England, Biddeford, ME 04005.  
A COMPARATIVE STUDY OF TWO TIDALLY RESTRICTED MARSHES TO A NATURAL UNDISTURBED SALT MARSH IN OLD ORCHARD BEACH, ME

9:40 Buchsbaum, R.N., A. Ridlon\*. Massachusetts Audubon Society, Wenham, MA 01984, J. Catena, E. Hutchins, National Marine Fisheries Service, Gloucester, MA 01930.  
SALT MARSH VEGETATION RESPONSE TO INCREASED TIDAL FLUSHING IN IPSWICH, MA: ONE YEAR POST RESTORATION

10:00 BREAK

10:20 Warren, R.S., P.E.Fell, R. Rozsa\*, W.A.Niering, A.H.Brawley, Connecticut College, New London, CT and Connecticut, \*Department of Environmental Protection, Hartford, CT.  
RESTORATION OF DEGRADED TIDAL MARSHES IN CONNECTICUT - THE FIRST 20 YEARS

10:40 (R) Swamy\*, Varun, P.E. Fell. Dept. of Zoology, Connecticut College, New London, CT 06320.  
DISTRIBUTION AND ABUNDANCE OF MACROINVERTEBRATES AND FISH ON A RESTORING TIDAL MARSH SYSTEM AFTER 21 YEARS

11:00 (R)Terwilliger\*, S.K., Bohlen, C.C. Dept. of Environmental Studies Bates College, Lewiston, Maine, 04240.  
THE IMPACT OF TIDAL RESTRICTION ON THE SULFUR DYNAMICS OF A MAINE SALT MARSH

11:20 (K) Bowden\*, A.A., D.M. Burdick, and F.T. Short. Jackson Estuarine Laboratory, University of New Hampshire, 85 Adams Point Road, Durham, NH 03824.  
EFFECTS OF URBAN RUNOFF ON THE INVERTEBRATE COMMUNITIES OF NATURAL AND CREATED SALT MARSHES IN PORTSMOUTH, NEW HAMPSHIRE

11:40 (R) Canfield\*, Susannah K.E.; Ambrose, William; Ongley, Lois; Retelle, Michael; Wenzel, Tom; Bates College, Lewiston, ME, 04240.  
CHEMICAL ANALYSIS OF ANTHROPOGENIC HEAVY METAL CONTAMINATION AND ITS RELATION TO LAND USE IN TWO MAINE SALT MARSHES

12:00-1:20 LUNCH at local restaurants

1:20 Franz\*, David R. and Ileana Friedman, Biology Department, Brooklyn College CUNY.  
EFFECTS OF SEA LETTUCE ON INTERTIDAL SAND FLAT COPEPODS IN JAMAICA BAY

1:40 (K) Taylor\*, David L. and David B. Eggleston, Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, Raleigh, NC 27695, USA.  
EFFECTS OF HYPDIXIA ON AN ESTUARINE PREDATORY-PREY INTERACTION

2:00 (K) Hodum\*, D.G. University of Maine and Maine Department of Environmental Protection PO Box 404 Milford, ME 04461-0404.  
INTERTIDAL INVERTEBRATES IN CASCO BAY: BEFORE AND AFTER THE JULIE N OIL SPILL

2:20 (R) Kasper\*, J.M. Bates College, Lewiston, ME, 04240.  
PHENOTYPIC VARIATIONS IN THE DOG-WHELK, *NUCELLA LAPILLUS*, ACROSS A GRADIENT OF WAVE EXPOSURE IN MAINE, USA

2:40-3:30 BREAK and POSTER SESSION (Ballroom Balcony)  
(D) indicates Dean Award Candidate

1. (D) Adams\*, J.R., F.T. Short, B.S. Kopp, Jackson Estuarine Laboratory, University of New Hampshire, Durham, NH, 03824.  
GIS MODELING OF WAVE EXPOSURE AND HABITAT SUITABILITY FOR EELGRASS RESTORATION IN NEW BEDFORD HARBOR, MASSACHUSETTS
2. (D) Colin\*, Sean P. and Patricia Kremer, Marine Sciences, University of Connecticut.  
THE SETTLEMENT AND POPULATION MAINTENANCE OF *CYANEA SP. SCYPHISTOMA* IN RELATION TO THE DISTRIBUTION OF MEDUSAE IN THE NIANTIC RIVER, CT.
3. (D) Frank\*, Dane<sup>1</sup>, Lisa Ewert<sup>2</sup>, Sandra Shumway<sup>2</sup>, J. Evan Ward<sup>1</sup>,<sup>1</sup> Department of Marine Sciences, University of Connecticut; Groton, CT 06340; <sup>2</sup>Southampton College, Long Island University, Southampton, NY 11968.  
EFFECT OF CLAY SUSPENSIONS ON CLEARANCE RATE IN THREE SPECIES OF BENTHIC INVERTEBRATES
4. Ray P. Gerber, Department of Biology, Saint Joseph's College, 278 Whites Bridge Rd., Standish, ME 04084.  
AN IDENTIFICATION MANUAL TO THE COASTAL AND ESTUARINE ZOOPLANKTON OF THE GULF OF MAINE REGION
5. Green, Mark, Saint Joseph's College of Maine.  
SEASONAL PATTERNS OF CARBONATE DIAGENESIS IN NEARSHORE TERRIGENOUS MUDS: RELATION TO SPRING PHYTOPLANKTON BLOOM AND TEMPERATURE
6. (D) LeBlond, Vanessa A. Corning School of Ocean Studies, Maine Maritime Academy, Castine ME.  
A SPATIAL STUDY OF SEDIMENT PHOSPHORUS IN PENOBSCOT BAY, MAINE
7. (D) McKee\*, Michael P.; J. Evan Ward; Lisa M. Milke, Department of Marine Sciences, University of Connecticut, Groton, CT 06340; Bruce A. MacDonald, Department of Biology, University of New Brunswick, Saint John, N.B., Canada.  
THE CONTRIBUTIONS OF SELECT SUSPENSION FEEDERS TO PRODUCTION OF TRANSPARENT EXOPOLYMER PARTICLES (TEP) IN NEAR SHORE WATERS

8. Short, F.T., B.S. Kopp, and R.C., Davis, Jackson Estuarine Laboratory, University of New Hampshire, 85 Adams Point Road, Durham, NH 03824.  
TRANSPLANTING EELGRASS (*ZOSTERA MARINA*. L.) REMOTELY WITH FRAME HABITAT RESTORATION METHOD
9. (D) Smart, D.M., Bates College, Lewiston, ME 04240  
EFFECTS OF SEAGRASS BEDS ON-THE GROWTH OF THE SOFT-SHELLED CLAM, *MYA ARENARIA*
10. (D) Tabery\*, J., M. Gallowitsch, R.N.I. Chambers. Biology Department, Fairfield University, Fairfield, CT 06430.  
POPULATION ECOLOGY OF DIAMONDBACK TERRAPINS OF THE LOWER HOUSATONIC RIVER, CT.
11. (D) Vasilakos\*, L. and D. Osgood, University of New Haven, West Haven, CT 06516.  
A COMPARATIVE STUDY OF MICROALGAL DIVERSITY AND CHLOROPHYLL A CONCENTRATION IN A TIDALLY RESTRICTED AND UNRESTRICTED AREA OF SYBIL CREEK MARSH, BRANFORD, CT
12. Warren, C. S. and R. S. Warren\*. Exiba.com, North Adams, MA and Connecticut College, New London, CT  
TIDEMINER: A UTILITY FOR HYDROPERIOD CALCULATIONS FROM TIDAL PREDICTIONS AND HISTORIC DATA
- 3:30 (K) Gaeckle\*, J.L. and F.T. Short, Jackson Estuarine Laboratory, University of New Hampshire, Durham, NH 03824.  
THE EFFECTS OF MICROTOPOGRAPHY ON EELGRASS (*ZOSTERA MARINA* L.) PRODUCTION AND MORPHOLOGICAL CHARACTERISTICS
- 3:50 (K) Matso\*, K., F.T. Short. Dept. of Natural Resources, Univ. of New Hampshire, Durham, NH, 03824.  
COMPARING THREE METHODS FOR ASSESSING FAUNAL ABUNDANCE AND SPECIES DIVERSITY IN EELGRASS BEDS: SEINE, SCUBA, AND REMOTE VIDEO
- 4:10 Konisky\*, R.A. Jackson Estuarine Laboratory, University of New Hampshire, Durham, NH, 03824,  
TEN YEARS OF GREAT BAY COAST WATCH VOLUNTEER DATA: ANALYSIS OBJECTIVES, PRELIMINARY RESULTS, AND CHALLENGES
- 4:30 NEERS BUSINESS MEETING in Cumberland A
- 6:00 RECEPTION (CASH BAR): Rib Room/Lobby Bar
- 7:00 BANQUET: Ballroom:  
PRESENTATIONS: DEAN, KETCHUM, RANKIN PRIZES  
NEERS ACHIEVEMENT AWARD

Saturday, 20 May

8:00 Continental Breakfast

8:30 Morgan\*, Pamela A. and Frederick T. Short, Jackson Estuarine Laboratory, University of New Hampshire, Durham, NH.  
USING FUNCTIONAL TRAJECTORIES TO MODEL CONSTRUCTED SALT MARSH DEVELOPMENT IN THE GREAT BAY ESTUARY, ME/NH

8:50 Chambers\*, R.M., D.T. Osgood, N. Kalapasev. Biology Dept., Fairfield University, Fairfield, CT, 06430; and, Dept. of Biology and Environmental Science, University of New Haven, 300 Orange St., West Haven, CT, 06516.  
HYDROLOGIC AND CHEMICAL CONTROL OF *PHRAGMITES* GROWTH IN TIDAL MARSHES

4:10 Osgood\*, D., D. Yozzo, R. Chambers, C. Lepage, J. Lewis, S. Pianka, and M. Cianciola. Dept. of Biology and Environmental Science, University of New Haven, West Haven, CT 06516; B Vittor and Associates, .Inc.. Kingston, NY 12401; Dept. of Biology, Fairfield University, Fairfield, CT 06340; Dept. of Biology and Environmental Science, University of New Haven, West Haven, CT 06516.  
*HAS PHRAGMITES* EXPANSION IMPACTED NEKTON HABITAT ALONG THE HUDSON RIVER?

9:30 Clancy, M. Biological Sciences, Univ. Rhode Island.  
DEVELOPMENT AND USE OF A PASSIVE COLLECTOR TO SAMPLE MOBILE INVERTEBRATES IN RHODE ISLAND SALT MARSHES

9:50 James-Pirri\*, M. J., K.B. Raposa, J.G. Catena. NOAA/NMFS Restoration Center, Narragansett Laboratory, Narragansett, RI 02882; Graduate School of Oceanography, University of Rhode Island, Narragansett, RI 02882; NOAA/NMFS Restoration Center, 1 Blackburn Dr., Gloucester, MA 01930.  
GUT CONTENTS OF MUMMICHOGS, *FUNDULUS HETEROCLITUS* (L.) FROM RESTORING AND UNRESTRICTED REGIONS OF SACHUEST PONT SALT MARSH, MIDDLETOWN, RI

10:10 Rountree\*, R.A., J.Juanes. Dept. Natural Resources, University of Massachusetts at Amherst, Amherst, MA 01003-4210.  
PATTERNS OF ONTOGENETIC SHIFTS IN NEKTON HABITAT USE ALONG A MARSH COENOCLINE: ATLANTIC SILVERSIDE CASE STUDY

10:30 BREAK: REFRESHMENTS

10:50 Wilbur\*, A.R., Massachusetts Coastal Zone Management, Boston, MA, Geoghegan, P., Normandeau Associates Incorporated, Bedford, NH; Malkoski, V., Massachusetts Division of Marine Fisheries, Pocasset, MA.  
NURSERY HABITAT IN AN URBAN ESTUARY: INTEGRATING JUVENILE FISH DISTRIBUTION AND ABUNDANCE WITH BENTHIC HABITAT CHARACTERISTICS

11:10 Keay\*, Kenneth, Mass, Water Resources Authority, Boston MA. Eugene Gallagher, U/Mass Boston, Boston, MA. Roy Kropp, Battelle, Duxbury MA. James\_ Blakey ENSR, Woods Hole MA.

SPECIES RICHNESS INCREASES IN MASSACHUSETTS COASTAL SEDIMENTS

11:30 Young, Alan M, Biology Department, Salem State College, Salem, MA.

ALLOZYME COMPARISONS OF ATLANTIC AND GULF COAST POPULATIONS OF THE HERMIT CRAB, *PAGURUS LONGICARPUS*

11:50 Lee\*, K-S., K H. Dunton The University of New Hampshire, Jackson Estuarine Laboratory, 85 Adams Point Road, Durham, NH 03824; and The University of Texas at Austin, Marine Science Institute, 750 Channelview Drive Port., Aransas, TX 78373.

EFFECTS OF NITROGEN ENRICHMENT ON BIOMASS ALLOCATION, GROWTH, AND LEAF MORPHOLOGY OF THE SEAGRASS *THALASSIA TESTUDINUM*

12:10 Neckles<sup>1</sup>\*, Hilary A., Martha G. Nielsen<sup>1</sup>, Glenn R. Guntenspergen<sup>2</sup>, and Charles Culbertson<sup>1</sup>. US Geological Survey, Augusta, ME<sup>1</sup> and Laurel, MD<sup>2</sup> 78373.

DEVELOPING TOOLS TO PREDICT AND MONITOR EFFECTS OF NUTRIENT ENRICHMENT ON SMALL NORTHEASTERN ESTUARIES: A PROPOSAL

12:30 CLOSING REMARKS

Shipyard Brewery Tour ! ! ! ! ! ! ! ! ! !