

NEW ENGLAND ESTUARINE RESEARCH SOCIETY

SPRING 2003 PROGRAM

NEERS/SNECAFS MEETING PROGRAM

Thursday, May 8, 2003

* denotes presenter; (S) denotes Saul B. Saila Award Candidate.

10:50 WELCOME

11:00 (S) Jones*, R. J.

University of Rhode Island, School of Fisheries, Animal and
Veterinary Science

SIZE-SELECTIVE MORTALITY AND GROWTH OF A 1995
GEORGES BANK LARVAL COD COHORT.

11:20 Juanes*, F.

UMass Amherst

THE ALLOMETRY OF CANNIBALISM IN PISCIVOROUS
FISHES.

11:40 Valente*, R. M.

Science Applications International Corporation

BENTHIC COLONIZATION OF RED CLAY DREDGED
MATERIAL IN THE NEW YORK BIGHT

12:00 - 1:00 PM Lunch (provided for all registrants)

1:00 Michaels*, W.

NOAA/NMFS Northeast Fisheries Science Center, Woods Hole
OVERVIEW OF THE NORTHEAST FISHERIES SCIENCE
CENTER FISHERIES ACOUSTIC PROGRAM

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1:20 Lindholm*, J. and P. Auster

NOAA/Stellwagen Bank National Marine Sanctuary and NURC -
UCONN

SITE UTILIZATION AND MOVEMENT OF ATLANTIC COD
AS DETERMINED BY ACOUSTIC TELEMETRY

1:40 Schlezinger*, D.R., B.L. Howes

School of Marine Science and Technology, Univ. of
Massachusetts-Dartmouth

BIOGEOCHEMICAL CONTROLS ON THE EFFICIENCY OF
FRESHWATER SYSTEMS TO INTERCEPT AND
ATTENUATE GROUNDWATER NITROGEN LOADING TO
ESTUARIES

2:00 Evans*, M.A. and K. Wagner

ENSR International

MONITORING AND ANALYSIS OF BENTHIC NUTRIENT
FLUX USING REAL-TIME IN-SITU INSTRUMENTATION

2:20 Martin*, P.D., M. Tyrrell

TRC Environmental Corporation

MARINE RESOURCE AND IMPACT CHARACTERIZATION
ASSOCIATED WITH THE PERMITTING OF TWO
OFFSHORE NATURAL GAS PIPELINES IN NEW ENGLAND

2:40 BREAK

3:00 Taylor*, David I.

Massachusetts Water Resources Authority

THE RECOVERY OF BOSTON HARBOR: TWO YEARS
AFTER TRANSFER OF WASTEWATER OFFSHORE

3:20 Ferry*, K. H.¹ and M.E. Mather²

¹Mass. Division of Marine Fisheries and ²Univ. of Massachusetts,
Amherst

FACTORS DRIVING DISTRIBUTION OF MIGRATORY
STRIPED BASS ACROSS MASSACHUSETTS ESTUARIES.

3:40 Mather^{1*}, M.E., and K. H. Ferry²

¹University of Massachusetts, Amherst and ²Mass. Division of Marine Fisheries

NOWHERE TO SWIM, NOWHERE TO HIDE:
CONSEQUENCES OF WITHIN-SYSTEM STRIPED BASS
PREDATION FOR ESTUARINE PREY

4:00 Jedlicka^{*1}, D.M. and K. ¹. Nislow²

¹Univ. of Massachusetts, Amherst and ²USFS

META-ANALYSIS OF STUDIES BASED ON THE EFFECTS
OF ENGINEERED AND NATURALLY OCCURRING LARGE
WOODY DEBRIS IN ANADROMOUS SALMONID STREAMS
OF THE PACIFIC NORTHWEST

6:00- 8:00 PM POSTER VIEWING and Social at SMAST

Posters (D) denotes Dean Prize candidate, (W) denotes Warren Prize candidate,

(M) denotes part of the special symposium on Mt. Hope Bay.

(M) Costello*, C.T.

Mass. Department of Environmental Protection

MAPPING AND MONITORING RESOURCES OF MT. HOPE
BAY

(W) Curtis*, A., P. E. Fell, R. S. Warren

Connecticut College

IMPACT OF PHRAGMITES CONTROL TREATMENT ON
MACROINVERTEBRATE ASSEMBLAGES ON A BRACKISH
MARSH IN CONNECTICUT

(M) Englert*, T.L. and R.J. O'Neill

Lawler, Matusky and Skelly Engineers LLP

EFFECTS OF THE BRAYTON POINT STATION THERMAL
DISCHARGE ON REPRESENTATIVE IMPORTANT SPECIES
IN MOUNT HOPE BAY

(W) Haas*, M.D. and R.A. MacKenzie
The Wells National Estuarine Research Reserve,
ECOLOGICAL PARAMETERS OF FRINGING MARSH
INVERTEBRATE COMMUNITIES

Howes, B.L., and R.I. Samimy*
Univ. of Massachusetts – Dartmouth
THE MASSACHUSETTS ESTUARIES PROJECT:
EMBAYMENT RESTORATION USING A LINKED
WATERSHED-EMBAYMENT NITROGEN MANAGEMENT
MODELING APPROACH

Jiang*, M-S, M. Zhou and G. Wallace
University of Massachusetts, Boston
CIRCULATION, MIXING AND WATER QUALITY IN THE
MASSACHUSETTS AND CAPE COD BAYS: CURRENT
STATUS AND FUTURE DEVELOPMENT

(W) Kennedy*, M.D.
United States Coast Guard Academy
MAPPING SEWAGE EFFLUENT IN THE THAMES RIVER
USING STABLE ISOTOPE ANALYSIS

Kessler*¹, R.K., R.A. Rountree¹, B.J. Rothschild¹, W. Brown¹
and R. Lane²

¹UMass Dartmouth and ²Trawler Survival Fund
THE SMAST HIGH RESOLUTION TRAWL SURVEY: A CASE
STUDY IN THE DESIGN AND DEVELOPMENT OF
COOPERATIVE TRAWL SURVEY PROGRAMS BETWEEN
COMMERCIAL FLEETS, ACADEMIC INSTITUTIONS AND
GOVERNMENT

(M) Lawrence*, D. and M. Scherer
Marine Research Inc
MACROALGAE IMPACTS ON THE NURSERY HABITAT OF
YOUNG-OF-THE-YEAR WINTER FLOUNDER
(PLEURONECTES AMERICANUS), MOUNT HOPE BAY.

(M) Powell*, J. C.

R.I. Division of Fish & Wildlife

A TAGGING STUDY OF WINTER FLOUNDER

(*PSEUDOPLEURONECTES AMERICANUS*) IN MT. HOPE
BAY, RHODE ISLAND

Rountree, R., B.J. Rothschild, W. Brown, D. Martins* and R.
Kessler

UMASS Dartmouth

THE SMAST COD-TAGGING PROGRAM

(W) Steiner*, E.M., P.E. Fell and R.S. Warren

Connecticut College

EFFECTS OF HERBICIDE TREATMENT AND MOWING OF
PHRAGMITES AUSTRALIS ON FISH AND CRUSTACEAN
USE OF AN OLIGOHALINE MARSH SURFACE

(M) Tate*, A., K. Weaver, A. Fuda

Roger Williams University

INTEGRATION OF A WINTER FLOUNDER HABITAT
SUITABILITY INDEX MODEL AND GEOGRAPHIC
INFORMATION SYSTEM TO PRIORITIZE NARRAGANSETT
BAY SALT POND RESTORATIONS

White*, D.S., B.L. Howes, D.R. Schlezinger

University of Massachusetts, Dartmouth

THE USE OF ZERO-VALENT IRON AS A GEOCHEMICAL
BARRIER TO TRAP GROUNDWATER-BORNE
PHOSPHORUS IN THE SURFICIAL SEDIMENTS OF A
KETTLE POND, CAPE COD, MA

Friday, May 9, 2003

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

Session Chair = Marshall Pregnell

8:50 Welcome and Introductory Remarks: Marshall Pregnall,
NEERS President

9:00 Rozsa*, R.

CT Department of Environmental Protection

WHEN IS A SALT MARSH NOT A SALT MARSH?

9:20 (K) Bozek*, C.M., D.M. Burdick

University of New Hampshire

IMPACTS OF SEAWALLS ON SALT MARSH PLANT
COMMUNITIES N LOADS

9:40 Hamersley*, M.R., B.L. Howes

University of Massachusetts Dartmouth

COUPLED NITRIFICATION-DENITRIFICATION MEASURED
IN SITU IN VEGETATED SALT MARSH SEDIMENTS WITH
A NITROGEN-15 AMMONIUM TRACER

10:00 BREAK

10:20 MacKenzie*, R.A. and M. Dionne

The Wells National Estuarine Research Reserve

THE ECOLOGICAL FUNCTION AND VALUE OF SALT
MARSH POOLS (PANNES) ON THE SURFACE OF
SOUTHERN MAINE SALT MARSH SYSTEMS

10:40 Dochtermann*, J., M. Dionne, S. Orringer, T. Smith, A.
Leonard, C. Dalton

Wells National Estuarine Research Reserve

NEKTON USE OF FRINGING SALT MARSHES
SUSCEPTIBLE TO OIL SPILLS IN CASCO BAY, MAINE

11:00 (K) Eberhardt*, A.L., D.M. Burdick

Univ. of New Hampshire

FISH VERSUS HUMAN CORRIDORS – THE IMPACT OF
ROAD CULVERTS ON FISH MOVEMENT

11:20 Block*, S.M.¹, J. Terrill¹, J. Catena¹, J. Turek², D. Burchsted³, J. MacBroom³

¹NMFS, Gloucester; ²NMFS, R.I.; ³Milone & MacBroom, Inc.
ANADROMOUS FISHERY RESOURCE RESTORATION IN
THE ACUSHNET RIVER WATERSHED THROUGH THE
NEW BEDFORD HARBOR PCB SETTLEMENT.

11:40 Geoghegan*, P.¹, A.R. Wilbur²

¹ Normandeau Associates Inc and ²Massachusetts Office of
Coastal Zone

RECRUITMENT HABITAT, GROWTH, AND MORTALITY
OF YOUNG-OF-THE-YEAR SCUP (STENOTOMUS
CHRYSOPS) IN NEW BEDFORD HARBOR,
MASSACHUSETTS.

12:00-1:00 LUNCH

1:00 Buttner*, J.¹, M. Fregeau¹, S. Weston¹, B. McAneney¹ and
J. Grundstrom²

¹Salem State College and ²Shellfish Constable
SOFTSHELL CLAM RESTORATION AND ENHANCEMENT
EFFORTS ON MASSACHUSETTES' NORTH SHORE

1:20 (K) Whiting-Grant¹, K., M. Dionne², C. Dalton*³, F.
Dillon*⁴, S. Jones⁵

¹ Maine Sea Grant; ²Wells NERR, ³Maine Conservation
Corps/AmeriCorps, ⁴University of SouthernMaine, ⁵University of
New Hampshire

MICROBIAL SOURCE TRACKING IN TWO SOUTHERN
MAINE WATERSHEDS

1:40 (K) Simmons*, K.A., and N. J. O'Connor
University of Massachusetts

COMPETITION FOR SHELTER BETWEEN THE ASIAN
SHORE CRAB (*HEMIGRAPUS SANGUINEUS*) AND NATIVE

MUDCRABS

2:00 (K) Blasi*, J.C. and N.J. O'Connor

University of Massachusetts Dartmouth

AMPHIPODS AS PREY FOR THE INVASIVE CRAB,
HEMIGRAPUS SANGUINEUS

2:20-2:40 BREAK

2:40 (K) Harris*, L.A., B. Buckley, S.W.Nixon, C. Mueller, S.
Granger

University of Rhode Island, Graduate School of Oceanography

A SUSTAINABLE EELGRASS INDEX

3:00 (K) Fisher*, J.I., and J.F. Mustard

Brown University

CONSTRUCTING A HIGH RESOLUTION SEA SURFACE
CLIMATOLOGY OF SOUTHERN NEW ENGLAND USING
SATELLITE THERMAL IMAGERY

3:20 Abdelrhman*, M.A.

USEPA Atlantic Ecology Division

HOW TO MODEL HYDRODYNAMICS AND RESIDENCE
TIMES OF 27 EMBAYMENTS IN 4 MONTHS

3:40 C. Chen*

UMASS Dartmouth

A New Coastal and Estuarine Management Model System:
Applications to Estuaries in the Southeastern US coast and Mount
Hope Bay

4:10 NEERS BUSINESS MEETING – A Revised Constitution

**5:00 – 7:00 Poster Viewing and Social at New Bedford
Whaling Museum**

**7:00 – 9:00 Banquet and Awards Ceremony at the New
Bedford Whaling Museum**

**9:00 – 12:00 D.J. and Dancing at the Holiday Inn Express
Hotel**

Saturday, May 10, 2003

Session Chair = Rodney Rountree

8:00 Welcome and Keynote Address

8:20 Mustard*, J. F

Brown University

THE TEMPERATURE OF MT. HOPE BAY

8:40 Swanson*, C. and H.-S. Kim

Applied Science Associates, Inc.

SIMULATED THERMAL VARIATIONS IN MT. HOPE BAY
AND APPLICATION TO ASSESSING ECOSYSTEM EFFECTS

9:00 Zhao*, L., L. Goodman, C. Chen, B. Rothschild, and R.
Rountree

The School for Marine Science and Technology, UMass
Dartmouth

SIMULATING THE EFFECTS OF THE HEATED WATER
DISCHARGES FROM BRAYTON POINT POWER STATION
TO MOUNT HOPE BAY IN FINITE VOLUME COASTAL
MODEL

9:20 Fan*, Y and W. S. Brown

School for Marine Science and Technology, UMass Dartmouth
AN ESTIMATED HEAT BUDGET FOR MOUNT HOPE BAY

9:40 BREAK and Poster Session

Costello*, C.T.

Mass. Department of Environmental Protection

Mapping and Monitoring Resources of Mt. Hope Bay

Englert*, T.L. and R.J. O'Neill

Lawler, Matusky and Skelly Engineers LLP

EFFECTS OF THE BRAYTON POINT STATION THERMAL
DISCHARGE ON REPRESENTATIVE IMPORTANT SPECIES
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MACROALGAE IMPACTS ON THE NURSERY HABITAT OF
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A TAGGING STUDY OF WINTER FLOUNDER
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INTEGRATION OF A WINTER FLOUNDER HABITAT
SUITABILITY INDEX MODEL AND GEOGRAPHIC
INFORMATION SYSTEM TO PRIORITIZE NARRAGANSETT
BAY SALT POND RESTORATIONS

10:20 Barrett*, S.B., H. Durey, B.C. Graves

Epsilon Associates, Inc.

THE MOUNT HOPE BAY TIDAL RESTRICTION ATLAS:
IDENTIFYING MAN-MADE STRUCTURES WHICH ALTER
TIDAL HYDROLOGY AND DEGRADE ESTUARINE
HABITATS IN MOUNT HOPE BAY

10:40 Deacutis*, C.F. D. Murray, W. Prell, L. Korhun, and E.

Saarman

Narragansett Bay Estuary Program

HYPOXIC WATERS IN NARRAGANSETT BAY , RHODE
ISLAND

11:00 Howes*, B.L., and David R. Schlezinger
School for Marine Science and Technology, Univ. of
Massachusetts Dartmouth
NUTRIENT RELATED HABITAT QUALITY OF MOUNT
HOPE BAY

11:20 Pratt*, S.D.
Graduate School of Oceanography, Univ. of Rhode Island
ASPECTS OF MACROBENTHOS IN MOUNT HOPE BAY

11:40 Panel Discussion – Moderated by TBD

12:00-1:00 LUNCH

1:00 Gibson*, M.R.
RI Department of Environmental Management, Division of Fish
and Wildlife
ASSESSING THE IMPACTS OF FISHING AND BRAYTON
POINT POWER STATION ON LOCAL STOCKS OF WINTER
FLOUNDER USING A NESTED, BIOMASS DYNAMIC
MODEL

1:20 DeAlteris*, J.T., T. L. Englert, and J. A. D. Burnett.
University of Rhode Island
TRENDS IN FISH ABUNDANCE IN MOUNT HOPE BAY

1:40 DeLong*, A.K. and J.S. Collie
Graduate School of Oceanography, University of Rhode Island
EXAMINING THE DECLINE OF NARRAGANSETT BAY
WINTER FLOUNDER, WITH A PARTICULAR EMPHASIS
ON MOUNT HOPE BAY

2:00 Rountree*, R.A.¹, and T. Lynch²
¹UMass Dartmouth and ²R.I. Department of Environmental
Management
SPATIAL AND TEMPORAL PATTERNS OF THE FISH
ASSEMBLAGES IN THE GREATER NARRAGANSETT BAY

ESTUARINE SYSTEM: IS MT. HOPE BAY DIFFERENT?

2:20 Englert*, T.L. and J.A.D. Burnett

Lawler, Matusky and Skelly Engineers LLP

A RAMAS POPULATION MODEL OF WINTER FLOUNDER
IN MOUNT HOPE BAY

2:40-3:00 BREAK

3:00 Taylor*, D.L.

University of Rhode Island, Graduate School of Oceanography
PREDATION OF WINTER FLOUNDER EGGS BY THE SAND
SHRIMP (*CRANGON SEPTEMSPINOSA*) IN MT. HOPE BAY

3:20 French McCay*, D.P., J.J.Rowe

Applied Science Associates

ESTIMATED IMPACTS OF CORMORANTS ON FISH
POPULATIONS IN THE NARRAGANSETT BAY ESTUARY

3:40 Webb*, P.M.

Roger Williams University

ASSESSMENT OF THE SEAL POPULATIONS OF MT. HOPE
BAY AND SURROUNDING WATERS

4:00 - 5:00 Panel Discussion Moderated by TBD



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