

# NEW ENGLAND ESTUARINE RESEARCH SOCIETY

## PROGRAM

**OCTOBER 24-26, 2002**

**UCONN AVERY POINT, GROTON, CT.**

**Hosted By**

**Marine Sciences, University of Connecticut**

**Long Island Sound Foundation**

**State of Connecticut, Department Environmental  
Protection**

**Coast Guard Academy**

**Co-Sponsored by**

**Connecticut Sea Grant New York Sea Grant**

Thursday, October 24, 2002

LONG ISLAND SOUND RESEARCH CONFERENCE

Session Chair = Robert Whitlatch, UCONN

\* denotes presenter

9:00 WELCOME - Dr. Robert Whitlatch, Department of Marine Science, UCONN

9:10 Wilson, R. <rwilson@notes.cc.sunysb.edu>

APPLICATION OF 1D TURBULENCE MODEL TO A DESCRIPTION OF TRANSIENT  
WATER COLUMN STRUCTURE IN CENTRAL LONG ISLAND SOUND

9:30 Codiga\*, D.L., D.E. Waliser, and R.E. Wilson

EVOLUTION OF VERTICAL PROFILES OF STRATIFICATION AND OXYGEN

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CONCENTRATION SAMPLED HOURLY FOR SIX WEEKS OF SPRING 2002 NEAR  
STRATFORD SHOAL

9:50 Thomas\*, E., I. Abramson, J. C. Varekamp, and M. R. Buchholtz ten Brink  
EUTROPHICATION OF LONG ISLAND SOUND AS TRACED BY BENTHIC  
SEDIMENTS

10:10 Varekamp\*, J. C., E. Thomas, F. Lugolobi, M. R. Buchholtz ten Brink,  
PALEOENVIRONMENTAL HISTORY OF LONG ISLAND SOUND (LIS), CT, USA

10:30-10:50 BREAK

10:50 Stacey\*, P. E.  
CONNECTICUT'S NITROGEN CONTROL PROGRAM TO MANAGE LONG  
ISLAND SOUND HYPOXIA

11:10 Mullaney, J.R\*., G.E. Schwarz, E.C.T Trench  
ESTIMATION OF NONPOINT NITROGEN LOADS AND YIELDS FROM MONITORED  
AND UNMONITORED BASINS DRAINING TO LONG ISLAND SOUND 1988-98

11:30 Cuomo\*, C., R.M. Valente, D. Dogru.  
MONITORING OF BOTTOM WATER AND SEDIMENT CONDITIONS AT CRITICAL  
STATIONS IN WESTERN LONG ISLAND SOUND

11:50 Bohlen, W. F.  
EPISODIC SEDIMENT RESUSPENSION AND DISPERSION IN ESTUARIES

12:10-1:10 LUNCH - at Branford House (included in registration fee)

1:10 Tomichek C. and E. Roseman  
LONG-TERM ABUNDANCE OF EGGS, LARVAE, JUVENILE AND ADULT FISH  
COLLECTED: FROM 1976 THROUGH 2001 IN EASTERN LONG ISLAND SOUND

1:30 Crivello, J. F., D. Danila, E. Lorda, M. Keser.  
THE GENETIC STOCK STRUCTURE OF WINTER FLOUNDER  
(PSEUDOPLEURONECTES AMERICANUS) LARVAE IN LONG ISLAND SOUND:  
SPATIAL DISTRIBUTION OF LARVAL AND JUVENILE POPULATIONS AND THE  
IMPACT OF LARVAL ENTRAINMENT

1:50 Vozarik, J. M. and M. Keser,  
MACROINFAUNAL COMPOSITION AT THREE SANDY BEACHES IN EASTERN  
LONG ISLAND SOUND FROM 1980-1992.

2:10 Borucinska\*J.D., A.Czachorowska, S.Mookherjea, M.Habib

<borucinsk@mail.hartford.edu>

MICRONUCLEI IN PERIPHERAL RED BLOOD CELLS OF MUSTELUS CANIS AND  
SQUALUS ACANTHIAS REPRESENTING TWO ORDERS OF SHARKS FROM THE  
LONG ISLAND SOUND AND COASTAL WATERS OF THE NORTHWESTERN  
ATLANTIC.

2:30 Ferland\*, A.; M.B. Decker, A. Karagic, M. MacBruce, F. Watson, and J. Puglisi  
<aferland@maritimeaquarium.org>

HARBOR SEALS IN LONG ISLAND SOUND: A SURVEY OF POTENTIAL HAUL OUT  
SITES AND EFFECTS OF HUMAN DISTURBANCE ON BEHAVIOR

2:50 Laufer\*H., M.Johnson, N.Demir, K.Twidy, E.Chang, J.Bagshaw  
MANDIBULAR ORGAN INHIBITING ACTIVITY IDENTIFIED FROM LOBSTER  
HYPERGLYCEMIC HORMONES(CHHs)

3:10-3:30 BREAK

3:30 Cahoon, D. R.  
THE SURFACE ELEVATION TABLE (SET) AND MARKER HORIZON APPROACH  
FOR EVALUATING WETLAND SEDIMENT ELEVATION DYNAMICS IN COASTAL  
WETLANDS

3:50 R. Scott Warren\*, Nels Barrett, Christopher Warren, Ron Rozsa  
ESTABLISHMENT OF A SURFACE ELEVATION TABLE (SET) SITE ARRAY ON THE  
TIDELANDS OF LONG ISLAND SOUND: THE BARN ISLAND SITES, A SOUND-  
WIDE DATA BASE ON THE WEB, AND A CALL FOR VOLUNTEERS

4:10 Thomas, E. and J. C. Varekamp  
SEA LEVEL RISE IN LONG ISLAND SOUND (LIS) OVER THE LAST MILLENNIUM

4:30 Anisfeld\*, S.C., J. Linn, R.A. Orson  
TIDAL MARSH LOSS IN THE QUINNIPIAC RIVER ESTUARY

4:50 Lin, S., Miranda, L. and Zhang, H. Senjie Lin  
PHYTOPLANKTON COMMUNITY DIVERSITY AND POPULATION DYNAMICS IN  
LONG ISLAND SOUND - AN UPDATE ON THE PROJECT PROGRESS

5:10 Strychar, K.B.\*, J.E. Ward, and G. H. Wikfors  
PHYTOPLANKTON DYNAMICS IN LONG ISLAND SOUND: INFLUENCE OF  
ENVIRONMENTAL FACTORS ON NATURALLY OCCURRING ASSEMBLAGES.

5:30-7:30 RECEPTION AT THE (NEW) MARINE SCIENCES BUILDING  
(Sneak preview of posters)

DINNER -on your own

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Friday, October 25, 2002

NEERS/LONG ISLAND SOUND (continued)

\* denotes presenter, student awards: (K) Ketchum Prize eligible, (R) Rankin Prize eligible

8:00 WELCOME AGAIN -- Linda Deegan, NEERS President

8:10 (K) Hammerschmidt\*, C. R., P. H. Balcom, C. H. Lamborg, M. Z. Chung, P. T. Visscher, W. F. Fitzgerald <methylhg@aol.com>  
METHYLMERCURY IN SEDIMENT OF LONG ISLAND SOUND

8:30 Varekamp\*, J. C., Buchholtz ten Brink, M. R.  
MERCURY IN CONNECTICUT AND LONG ISLAND SOUND SEDIMENT

8:50 (K) Buck\*, N.J., S.A. Saudo-Wilhelmy, C.J. Gobler  
DISSOLVED TRACE METAL CYCLES IN LONG ISLAND SOUND: TEMPORAL AND SPATIAL TRENDS

9:10 (K) Luo\*, Y., X. Yang, R.J. Carley, C. Perkins, F. Nadim, M.M. Trahiotis  
EFFECTS OF GEOGRAPHICAL LOCATION AND LAND USE ON ATMOSPHERIC DEPOSITION OF NITROGEN IN THE STATE OF CONNECTICUT

9:30-9:50 BREAK

9:50 Li\*, Y., C. B. Olsen, P. E. Stacey and M. J. Lyman  
TEMPORAL AND SPATIAL VARIABILITY OF CHLOROPHYLL IN LONG ISLAND SOUND

10:10 Dettmann\*, E.H., L.B. Mason.  
RELATIONSHIPS BETWEEN TOTAL NITROGEN AND PLANKTONIC CHLOROPHYLL IN LONG ISLAND SOUND

10:30 Gobler, C.J., S.A. Sanudo-Wilhemly, N.J. Buck, M.E. Sieracki,  
EFFECTS OF NUTRIENT INPUTS ON PHYTOPLANKTON GROWTH RATES IN LONG ISLAND SOUND

10:50 (K) Lugolobi\*, F., J. C. Varekamp, E. Thomas  
THE USE OF CARBON ISOTOPES TO TRACE CHANGES IN BIOLOGICAL OXYGEN DEMAND (BOD) IN LONG ISLAND SOUND (LIS)

11:10 (K) Gay\*, P.S. J. O'Donnell, C. A. Edwards  
A ONE-BOX MODEL OF EXCHANGE BETWEEN LONG ISLAND SOUND AND SHELF WATERS

11:30 (K) Lyons\*, M.M., J.E. Ward  
DO MARINE AGGREGATES INCREASE THE ACCESSIBILITY OF SMALL PARTICLES TO BENTHIC SUSPENSION-FEEDING BIVALVES?

11:50 (K) LaPlante\*, L. H. and E. T. Schultz  
THE IMPORTANCE OF INDIVIDUAL AND ENVIRONMENTAL INFLUENCES ON THE REPRODUCTIVE OUTPUT OF TAUTOG

12:10-1:00 LUNCH AND POSTER VIEWING

1:00 (R) Heffner\*, L.R., Pregnall, A.M.  
EFFECTS OF ANOXIA ON ALGAL PHOTOSYNTHESIS AND NUTRIENT RELEASE ON COASTAL POND SEDIMENTS

1:20 (K) Czerwinski\*, C., Blazer, V., Weis, J.S. <czerwica@pegasus.rutgers.edu>  
THE REPRODUCTIVE CYCLE OF WHITE PERCH MORONE AMERICANA IN  
DIFFERENTIALLY CONTAMINATED ESTUARINE TRIBUTARIES

1:40 (K) Fried\*, H.A., R.B. Whitlatch. <heather.fried@uconn.edu>  
LONG-TERM MONITORING OF BENTHIC EPIFAUNAL RECRUITMENT IN LONG  
ISLAND SOUND: EXPANSION OF A 10-YR MONITORING EFFORT

2:00 (K) Robertson\*, T.L., J.S Weis  
AN ANALYSIS OF EPIFAUNAL COMMUNITIES ASSOCIATED WITH PHRAGMITES  
AUSTRALIS AND SPARTINA ALTERNIFLORA STEMS

2:20 (K) Nicotra\*, M. L. and Buss, L. W.  
THE FREQUENCY OF CHIMERISM AMONG COLONIES OF HYDRACTINIA  
SYMBIOLONGICARPUS

2:40-3:00 BREAK - SPLIT INTO 2 SESSIONS

THEATRE:

3:00 (K) Hariskov\*, S.D., S. Miller, C. Yarish, R. Hamilton  
FREE AMINO ACIDS COMPOSITION OF SEVERAL PORPHYRA SPECIES FROM THE  
EAST US COAST

3:20 (K) Frank\*, D.M. and J.E. Ward  
DEVELOPMENT OF A SYSTEM FOR CONTINUOUS MONITORING OF PALLIAL  
CAVITY PRESSURE AND VALVE GAPE IN THE OYSTER CRASSOSTREA  
VIRGINICA

3:40 (K) Moody, M. L.\* and D. H. Les  
HYBRIDITY IN INVASIVE NORTH AMERICAN MILFOIL POPULATIONS: A NEW  
MANAGEMENT CONCERN?

4:00 (R) Kelley\*, J.J. and E.T. Schultz  
THE FISHES OF THE HUDSON RIVER NATIONAL ESTUARINE RESEARCH  
RESERVES: STICKLEBACKS (GASTEROSTEIDAE) IN DECLINE

AUDITORIUM (THIRD FLOOR)

3:00-4:00 PANEL: MONITORING LONG ISLAND SOUND - WHAT SHOULD WE BE  
DOING?

Participants - TBA

4:30 THEATRE: NEERS BUSINESS MEETING (INCLUDING ELECTION)

5:00-7:00 POSTER VIEWING AND RECEPTION - MARINE SCIENCES 1st FLOOR

7:00 BANQUET - BRANFORD HOUSE (the mansion next to Marine Sciences)

9:00-midnight BRANFORD HOUSE : AFTER DINNER SOCIALIZING  
(DANCING IF YOU WANT, DISCUSSION IF YOU WANT)

POSTERS (ALPHEBETICAL ORDER)

(D) denotes Dean Award eligible

Bohlen, W. F., M. M. Howard-Strobel, D. R. Cohen, K. Larkin, P. Tebeau  
<bohlen@uconn.edu>

MYSOUND - STILL MONITORING YOUR SOUND

(D) Curci, L. A., M.E. Fitzgerald, L.B. Hughes, and P.A. Morgan  
SURVEYING SALT MARSH VEGETATION: A COMPARISON OF THE BRAUN  
BLANQUET AND POINT INTERCEPT METHODS

Fitzgerald, W. F., C. R. Hammerschmidt, P.H. Balcom\*, P.T. Visscher, C. H. Lamborg, C.  
M. Tseng and M. Z. Chung. METHYLMERCURY CYCLING AND PRODUCTION IN  
THE COASTAL/ESTUARINE WATERS OF LONG ISLAND SOUND AND ITS RIVER-  
SEAWATER MIXING ZONES

Goebel\*, N.L., J.N. Kremer, C.A. Edwards, B.L Reynolds  
NEW MEASUREMENTS OF OXYGEN PRODUCTION AND CONSUMPTION IN LIS

(D) Hunter-Thomson\*, K.I., J.E. Hughes, B.S. Williams  
ESTUARINE- OPEN-WATER COMPARISON OF FISH COMMUNITY STRUCTURE IN  
EELGRASS (ZOSTERA MARINA L.) HABITATS OF CAPE COD

Jonas, S., M. Harris, J. Tait\*, T. Van Biersel, J. Fullmer  
STRATIGRAPHIC CONTROL OF SALT MARSH BANK RETREAT IN THE  
HOUSATONIC ESTUARY

(D) Lamoureux, D., J. Priest, T. Fleming and C. Coron\* <coron@southernct.edu>  
ANTHROPOGENIC HEAVY METAL CONTAMINATION IN TIDAL MARSH  
SEDIMENTS, FLETCHERS CREEK, MILFORD, CT.

(D) Megargle, C.E.  
FLUSHING TIME OF THE PAWCATUCK RIVER ESTUARY

(D) Millman\*, M.L., M. Teichberg, P. Martinetto, and I. Valiela  
RESPONSE OF SHRIMP POPULATIONS TO LAND-DERIVED NITROGEN IN  
WAQUOIT BAY

Mylon, S.E.\*, Hu, H. and Benoit, G.  
QUANTIFICATION OF VOLATILE REDUCED SULFUR COMPOUNDS IN  
CONNECTICUT SURFACE WATERS INFLUENCED BY LONG ISLAND SOUND

(D) Nicholson\*, R.O. and V.T. Breslin  
SEDIMENT METAL CONTAMINATION IN THE WEST RIVER MEMORIAL PARK

Olsen\*, C., M. Lyman, M. Parker, Y. Li\*

CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION LONG ISLAND  
SOUND AMBIENT WATER QUALITY MONITORING PROGRAM: EXHIBIT OF  
ACTIVITIES AND DATA

Paskevich, V.F, L.J.Poppe, R.S. Lewis, M.L. Digiacommo-Cohen  
GEOLOGIC FRAMEWORK DATA FOR LONG ISLAND SOUND, 1981 - 1990: A  
DIGITAL DATA RELEASE

Pellegrino, P. E. and T. A. Randall <Pellegrinope@hotmail.com>  
THE INVISIBLE WORLD OF THE SEASHORE: AN INTERACTIVE GUIDE TO THE  
PLANKTON COMMUNITIES OF LONG ISLAND SOUND

(D) Reynolds\*, B.L. <bobbyreynolds1@msn.com >  
DIEL VARIABILITY IN GROSS COMMUNITY PRODUCTION RATES FOR WESTERN  
LONG ISLAND SOUND

Rozsa\*, R. and R.S. Warren  
TIDAL WETLAND LOSS IN WESTERN LONG ISLAND SOUND: A REFLECTION OF  
RECENT SEA LEVEL RISE?

(D) Schoepfer\*, V.A.,  
NITRATE AND PHOSPHATE CONCENTRATIONS IN SALT AND FRESH WATER

(D) Sellers\*, A.M., J.M. Jech, J.A. Tyler.  
ENVIRONMENTAL QUALITY OF GEORGES BANK FOR ATLANTIC COD

Thalhauser\*, J.E.  
EFFICIENT AND EFFECTIVE RESTORATION THROUGH AN INTER-MUNICIPAL  
PARTNERSHIP

(D) Titus\*, T.M., V.T. Breslin.  
DISTRIBUTION OF SEDIMENT METAL CONTAMINATION IN BRIDGEPORT  
HARBOR, CT

(D) Waliser D. E., D. Codiga, T. Wilson, T Baggett\*, J. Giannotti, M. Reynolds  
A FERRY-BASED MARINE AND ATMOSPHERIC OBSERVING SYSTEM FOR LIS

(D) Williams\*, B. S., J.E. Hughes, K. Hunter-Thomson  
INFLUENCE OF EPIPHYTIC ALGAL COVERAGE ON FISH PREDATION RATES IN  
SIMULATED EELGRASS HABITATS

Saturday, 26 October 2002

NEERS CONTRIBUTED PAPERS

8:30 Zhao, L., L. Goodman, C. Chen, R. Rountree, and B. Rothschild  
APPLICATION OF THE FINITE VOLUME COASTAL OCEAN MODEL TO THE  
STUDY OF THE MOUNT HOPE BAY ECOSYSTEM PART I: PHYSICAL MODEL

8:50 Brush\*, M.J. and S.W. Nixon

DEVELOPMENT OF A NUMERICAL MODEL FOR SHALLOW MARINE ECOSYSTEMS WITH APPLICATION TO GREENWICH BAY, RI

9:10 Kremer,\* J, W Currie and J Brawley

CORROBORATING A GENERAL MODEL OF ESTUARINE RESPONSES TO NITROGEN LOADING.

9:30 Brawley, J.W. AND J. N. Kremer

CRITICAL NITROGEN LOADS TO THE WAQUOIT BAY ESTUARINE SYSTEM

9:50- 10:10 BREAK

10:10 Taylor, D.I.

RECOVERY OF THE BOSTON HARBOR ESTUARINE SYSTEM

10:30 Burroughs, R.

DESIGNING THE NEXT MANAGEMENT AND RESEARCH ACTIONS FOR AN ESTUARINE ECOSYSTEM

10:50 Schultz\*, E.T., J.M. Martin, J. Young, K.M.M. Lwiza

A COHORT-BASED METHOD FOR ESTIMATING NET TRANSPORT OF LARVAE IN ESTUARIES

11:10 Taylor, D.L.

SAND SHRIMP PREDATION ON JUVENILE WINTER FLOUNDER ACROSS A LATITUDINAL GRADIENT

11:30 Susanne Y. Schaller

MAINE HORSESHOE CRAB SPAWNING SURVEYS 2001-2002

11:50 Miller, S M \* ; G P, Kraemer; C, Yarish; R, Carmona COMPARISON OF BIOREMEDIATION POTENTIAL OF SIX PORPHYRA SPP.

12:10 Buchsbaum, R.

INFLUENCE OF HAYING ON SALT MARSH VEGETATION OF PLUM ISLAND SOUND, MASSACHUSETTS

12:30 END OF MEETING

PICK UP LUNCH, LEAVE ON FIELD TRIPS





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