



Acknowledgements

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**LONG ISLAND SOUND RESEARCH CONFERENCE PROGRAM
GEN RE AUDITORIUM, UNIVERSITY OF CONNECTICUT, STAMFORD**

FRIDAY, OCTOBER 29, 2010

- 7:30 - 8:45** **Continental Breakfast**
- 8:00 – 8:45** **Registration**
- 8:45– 9:00** **Welcome - W. Frank Bohlen, University of Connecticut**

PHYSICAL - W. Frank Bohlen, University of Connecticut, Moderator

- 9:00 – 9:15** **Generation and Propagation of M6 Overtides in Long Island Sound,**
G. McCardell, J. O'Donnell, D. Bennett, T. Fake
- 9:15 – 9:30** **Observations of Wind Response in Central and Western Long**
Island Sound, R. Wilson
- 9:30 – 9:45** **An Inverse Approach to Modeling Circulation in Western Long Island**
Sound, D. Bennett, J. O'Donnell
- 9:45 – 10:00** **Estuary-Shelf Exchange Pathways for the Long Island Sound,**
M. Whitney
- 10:00 – 10:15** **Characterization of Solar Radiation Energy Input to Long Island**
Sound–With Application toward Understanding the Variability in the
Severity of Hypoxia, J. Boyle
- 10:15 – 10:30** **Observed Tidal Cycles of Stratification, Shear & Turbulent Overtides**
in Eastern Long Island Sound, D. Codiga, C. Bryan
- 10:30 – 10:45** **BREAK**

MAPPING – Ivar Babb, National Undersea Research Center, Moderator

- 10:45 – 11:00** **The Role of Habitat Complexity and Heterogeneity in Structuring Benthic Communities of New Haven Harbor, Long Island Sound,**
D. Brown, R. Zajac
- 11:00 - 11:15** **Identification and a Screening of Potential Upland, Beneficial Use, and Dewatering Sites for Dredged Material from Long Island Sound Region,** S. Pala
- 11:15 – 11:30** **First Observations over Long Island Sound with Hyperspectral Imager for the Ocean (HICO),** K. Szekiolda
- 11:30 - 11:45** **Assessing the Health of Long Island Sound: The LISS Environmental Indicators Program,** J. Rose, R. Burg, M. Tedesco
- 11:45 – 12:00** **Changes in Eelgrass Distribution through Surveys in Eastern Long Island Sound, Connecticut and New York,** R. Tiner, K. McGuckin, M. Fields, N. Fuhrman, T. Halavik, A. MacLachlan
- 12:00 – 1:30** **LUNCHEON - Multi Purpose Room**

CHEMICAL – Carmela Cuomo, University of New Haven, Moderator

- 1:30 – 1:45** **Distributions of Organic Contaminants and Metals in Western Long Island Sound: Insights from Novel Sewage Source-specific Tracers,**
B. Brownawell, P. Lara-Martin, K. Cochran, D. McHugh, J. Gondek,
A. Renfro, A. Ellefson, A. McElroy, A. Beck
- 1:45 – 2:00** **Water Quality of Brackish Water in Jamaica Bay: Monitoring of Nutrients and Fecal Indicator Bacteria,** D. DeFabio, W. Beauzile,
Y. Nguyen, R. Dhar
- 2:00 – 2:15** **Comparison of Solid Phases for the Detection of Phthalate Esters,**
J. Elmoznino, P. Vlahos
- 2:15 – 2:30** **Mercury Contamination in Long Island Sound: Local Sources Verses Atmospheric Deposition,** J. Varekamp, A. Haynes, S. Yudhistira, A. Malouta, E. Thomas, R. Neurath, R. Newton

CHEMICAL (cont'd)

2:30 – 2:45 **A Four-Thousand Year TEX 86 Record of Long Island Sound Surface Water Temperature**, C. Warren, J. Varekamp, A. Wadi, E. Thomas

2:45 – 3:00 **Estimating Sediment Metal Concentrations in Norwalk Harbor Using Sediment Mean Grain Size and Loss on Ignition Data**, J. Stevens, J. Tait, N. Peperni, K. Thomas, C. Nixon

3:00- 3:15 **BREAK**

HYPOXIA – Larry Swanson, Stony Brook University, Moderator

3:15 – 3:30 **Sediment Characteristics in Relation to Hypoxic Events in Smithtown Bay**, T. Besier, C. Cuomo

3:30 – 3:45 **Interactions between Hypoxia and Sewage-derived Contaminants on Gene Expression on Fish Embryos**, A. McElroy, L. White, K. Cooper, B.Cheng, J. Romany, C. Clarke, T. Duffy, J. Gondek, M. Fast

3:45 – 4:00 **Growth and Survival of Nereis sp. in Anoxic and Sulfidic Systems: A Possible New Nutritional Pathway**, S. King-Trudeau

4:00 – 4:15 **Remote Continuous Monitoring of N₂ Concentrations in the Hypoxic Western Long Island Sound: A Proxy for Physically Driven Gas Fluxes**, M. Altabet, L. Bristow, J. O'Donnell

4:15 – 4:30 **Toward Geochemical Budgeting of Dissolved Gases in Hypoxic Western Long Island Sound**, L. Bristow, M. Altabet, J. O'Donnell

4:30 – 6:30 **POSTER RECEPTION – Multi Purpose Room**

6:30 – 8:30 **DINNER – Guest Speaker, Dr. William Dennison, Professor of Marine Science, Vice President of Science Applications, University of Maryland Center for Environmental Science – “Lessons from the Chesapeake Bay restoration efforts: A splendid failure or global example?”**

**LONG ISLAND SOUND RESEARCH CONFERENCE PROGRAM
SATURDAY, OCTOBER 30, 2010**

8:15 – 9:00 Continental Breakfast

BIOLOGICAL – Charlie Yarish, University of Connecticut, Moderator

9:00 – 9:15 Benthic Communities of New Haven Harbor: Spatial and Temporal Trends in Relation to Selected Environmental Factors and Habitat Structure, R. Zajac, D. Brown

9:15 – 9:30 Long Term Changes in Copepod Diversity in Long Island Sound, E.Rice, G. Stewart

9:30 – 9:45 Thermal Tolerance of the Invasive Tunicate *Styela Clava* Larvae, N. Brunetti

9:45 - 10:00 Movement Patterns and Population Genetics of the American Horseshoe Crab Relation to Long Island Sound Conservation Strategies, K. Bartholomew, J. Kasinak, M. Beekey, J. Mattei

10:00 – 10:15 Impacts of Climate Change on the Spring Bloom in Long Island Sound, J. George, C. Gobler, D. Lonsdale

10:15 – 10:30 Factors Promoting Blooms of the PSP- and DSP – producing Dinoflagellates, *Alexandrium fundyense* and *Dinophysis acuminata*, in Long Island Sound, T. Hattenrath, C. Gobler

10:15 – 10:45 BREAK

10:45 – 11:00 Gill Morphology and Oxygen Diffusion Distance in Juvenile Striped Killfish, *Fundulus majalis*, M. McEnroe, B. LaFortune, L. Rivera, A. Miller

11:00 – 11:15 Fiddler in the Marsh-Spatial Distribution and Abundance of *Uca spp.* In Salt Marshes of Central Long Island Sound, Y. Luk, R.Zajac

11:15 – 11:30 Salt Marsh Recovery in Jarvis Creek Marsh, Branford, CT: Tide Rule, E. Thomas, A. Haynes, S. Yudhistira, A. Malouta, J. Varekamp

11:30 – 11:45 Characterizing the Biofuel Potential of Long Island Sound Macroalgae, L. McGuffie, C. Cuomo

11:45 – 12:00 CLOSING COMMENTS

POSTERS

A Comparison of CODAR and ADCP Surface Current Records in Western Long Island Sound, Y. Shin

Biogeochemical Factors Affecting Mercury Speciation in Long Island Sound,
A. Traore, R. Mason, P. Balcom

Concentration of Heavy Metals in the Fauna of Meadow Lake, V. Acosta, G. Stewart,
A. Rouff

Continuous Offshore to Shoreline Se-Floor Mapping – Combined Multibeam and LIDAR Bathymetry from off New London and Niantic, Connecticut,
L. Poppe, W. Danforth, K. McMullen, C. Parker, P. Lewit, E. Doran

Detection of Hydroxyl Radicals in Marine Sediments using disodium terephthalate,
V. Arias, A. Skoog

Digital Seismic-Reflection Data from Rhode Island Sound, 1975-1980,
K. McMullen, L. Poppe, N. Soderberg

Distribution of *Melampus bidentatus* related to vegetation and the effects of sea level rise.
E. Kelly, R. Zajac

Estimating Sediment Metal Concentrations in Norwalk Harbor Using Sediment Mean Grain Size and Loss on Ignition Data, J. Stevens, J. Tait, N. Peperni, K. Thomas, C. Nixon

Fiddler crab, *Uca* spp responses to marsh patch structure and potential effects of sea level rise,
S. Klepner, R. Zajac

Pathological Changes, Disease and Tissue Metals in Eastern Oysters from Five Sites Along the Connecticut Coast, G. Geist, D. Oshana, I. Sunila, V. Breslin

Potential Effects of Phytoplankton Abundance and Diversity on the Eastern Oyster, *Crassostrea virginica*, in Long Island Sound, M. Krisak, S. Grace

Phytoremediation by *Eichhornia crassipes* to Remove Contaminants from Water,
S. Schoepfer

Strong Claws May Help Explain Population Growth of Non-Native *Hemigrapsus sanguineus* and Decline of Resident Crabs in Western Long Island Sound,
A. Payne, G. Kraemer

The Distribution of the Scleractinian Coral *Astrangia Poculata* in Long Island Sound,
B. Patrizzi, S. Grace