RECENT RESEARCH PROJECTS

BY SUNY INSTITUTION AND DEPARTMENT

Buffalo State College—Department of Biology

- Improved Predictions of Condition and Growth in Alewives: Effects of Dietary Fatty Acids, Temperature, and Ration

SUNY College at Brockport

- Climate Change Literacy Training Program for Extension and Partner Agency Staff

SUNY College of Agriculture and Life Science (CALS), Cornell University

Department of Food Science

- Development of Genomics-based Methods to Determine Effective Combinations of Growth Inhibitors for *Listeria monocytogenes* on Cold Smoked Salmon
- Determination of Effective Combinations of Bactericidal and Bacteriostatic Growth Inhibitor Treatments against *Listeria monocytogenes* on Cold Smoked Salmon

Department of Natural Resources

- Genomic Analysis of Oyster Dispersal and Recruitment Success
- Regulation of *Phragmites australis* Invasions by Seedling-associated Microbes
- Forecasting Ecosystem Effects of a New Invader, *Hemimysis anomala*, in Lake Ontario

SUNY College of Environmental Science and Forestry—Dept of Chemistry and University at Buffalo—Dept of Civil and Environmental Engineering

- Contribution of Marina Activities to the Algal Growth of Sodus Bay, Lake Ontario

SUNY College of Environmental Science and Forestry--Dept of Forest and Natural Resource Management

- Constraints and Motivations Related to Bass Fishing Along the Lake Ontario Coast
- GIS analysis of resident angler fishing characteristics and demographics

SUNY College of Veterinary Medicine, Cornell University

- Assessment of Viral Hemorrahagic Septicemia Virus Egg Transmission
- Management of Risk from VHSV in Bait Minnows

Stony Brook University—Dept of Ecology and Evolution

- Using Plant Traits to Predict How Plant Community Changes will Affect Denitrification in Wetlands

Stony Brook University—Dept of Geosciences

- Sources and Fate of Nitrogen in North Shore Embayments

Stony Brook University—School of Marine and Atmospheric Sciences

Living Resources

- Functional Genomics Investigations of Hard Clam Immune Response and Resistance Against QPX Infection
- Development of Mitigation Strategies to Reduce the Impact of QPX Disease on Hard Clam Transplant Fishery
- Mercury and Nutrients in Commercial Seafood: Local and National Trends and Mechanisms
- The Distribution, Causes, and Impacts of *Alexandrium fundyense* Blooms in Coves, Near Shore, and Open Water Regions of Long Island Sound
- Phase Shifts Among Primary Producers Within Long Island Sound: Will Anthropogenic Stressors Continue to Expand the Niche of PSP- and DSP-producing Dinoflagellate Blooms?
- Effects of Low Toxicity, High Concentration *Alexandrium fundyense* Blooms on Growth and Condition of *Mercenaria mercenaria* and *Mya arenaria*
- Managing Brown Tide: Nitrogen Physiology of *Aureococcus anophagefferens* Within the Plankton Community Context
- Impacts of Climate Change on the Export of the Spring Bloom in Long Island Sound
- The Influence of Gelatinous Zooplankton on Nutrient Cycles, Hypoxia, and Food Webs across LIS
- Cumulative Impacts of Multiple Stressors on Eelgrass Populations in New York Estuaries
- Interaction of Biological and Physical Factors Controlling Bottom Dissolved Oxygen

Water Resources/ Climate

- The Role of Sediments in Nitrogen Cycling and Eutrophication in the Peconic Estuary
- Towards an Integrated Multi-model Storm Surge Prediction System for Coastal New York
- An Evaluation of Habitat Classification Schemes for Coastal Marine Systems
- Natural Tracers of Submarine Groundwater Discharge into Long Island Sound
- Future Changes in East Coast Storms and its Impact on Coastal Inundation and LI Sound Mixing
- Summer Synoptic Weather Variability as the Control of the Seasonal Evolution of Hypoxia in LIS
- Evaluating Dredging Windows in Marine Waters in New York State and NY & NJ Harbor