

# NEW YORK SEA GRANT

## Harnessing Systemness, Delivering Performance Charting a New Path for Higher Education



A SUNY-WIDE INSTITUTE

### Research

NYSG supports multiple SUNY and other university researchers working on a variety of issues, including harmful algal blooms, aquatic invasive species, fish diseases as well as economic studies related to tourism, recreation and more. Many of the researchers that NYSG has funded have gone on to receive even larger awards from NSF, NOAA, and other granting agencies.

### Education

Whether teaching fifth graders about aquatic invasive species along Lake Erie, supporting graduate students as they sample New York waters, or training a cadre of undergraduate river stewards as they engage anglers along the Salmon River, NYSG values the formal and informal education and training of the next generation.

### Extension

NYSG extension specialists form advisory committees from the regions they serve. Once issues are identified, a wide variety of techniques are used to tackle them. Extension specialists may work with individuals, collaborate with others to organize workshops, or consult with experts to get needed information from other available sources. This may also involve suggesting new research topics and the process starts anew.



Working with NSF's coastal education excellence program and the Great Lakes Sea Grant network, NYSG brought New York teachers aboard the US EPA's Lake Guardian where they worked side by side with SUNY researchers to collect water quality data.



NYSG works with other state, federal and sometimes international partners to provide the science needed for Lake Ontario shoreline property owners, coastal resource managers, boaters, and marina operators to make informed decisions.

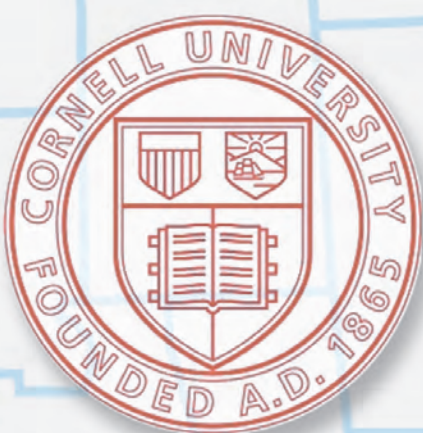
A Sea Grant Scholar, one of hundreds supported by NYSG over the decades, samples invasive plants in the 1000 Islands. Research done on the Great Lakes at SUNY campuses in Brockport, Buffalo (both), CESF, Morrisville, as well as Clarkson, Cornell and others is extended by NYSG at SUNY Oswego and UB.



NYSG brings together researchers from SUNY CESF and local community leaders to address sustainable Hudson River Valley tourism and its economic impact.



NYSG has funded several surveys related to sportfishing working with researchers at Cornell University and SUNY College of Environmental Science and Forestry (CESF).



Hundreds of marinas dot New York's coasts from Buffalo to Montauk. NYSG's Specialists worked with the New York Marine Trades Association to hold an informational workshop for marina operators.



NYSG's Nonpoint Source Education for Municipal Officials Program has helped 105 NY municipalities improve water quality and partnered with Brookhaven National Lab. (co-managed by SUNY Stony Brook) in a first-ever green infrastructure conference.



A SUNY Stony Brook Sea Grant Scholar and technician study effects of climate change on Long Island Sound food webs, a project supported by Sea Grant-managed US EPA funds.

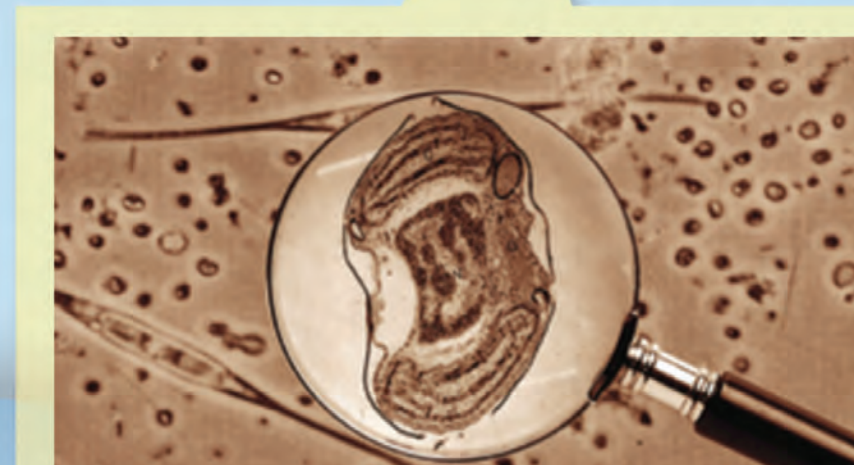
Long Island City



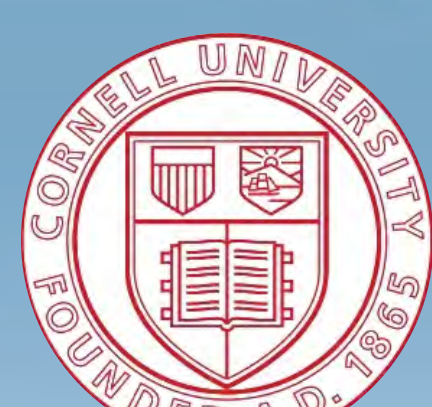
Riverhead



The I FISH NY program, a partnership with NYSDEC, has taken thousands of students fishing in the NY metro area. Sea Grant researchers from CUNY and NYU study mercury in NY Harbor food webs and monitor Hudson sturgeon.



Effects of brown tide, hard clam declines and other ecological threats to NY's commercial fisheries have been a focus of NYSG research in partnership with state, regional and federal management agencies.



The State University of New York