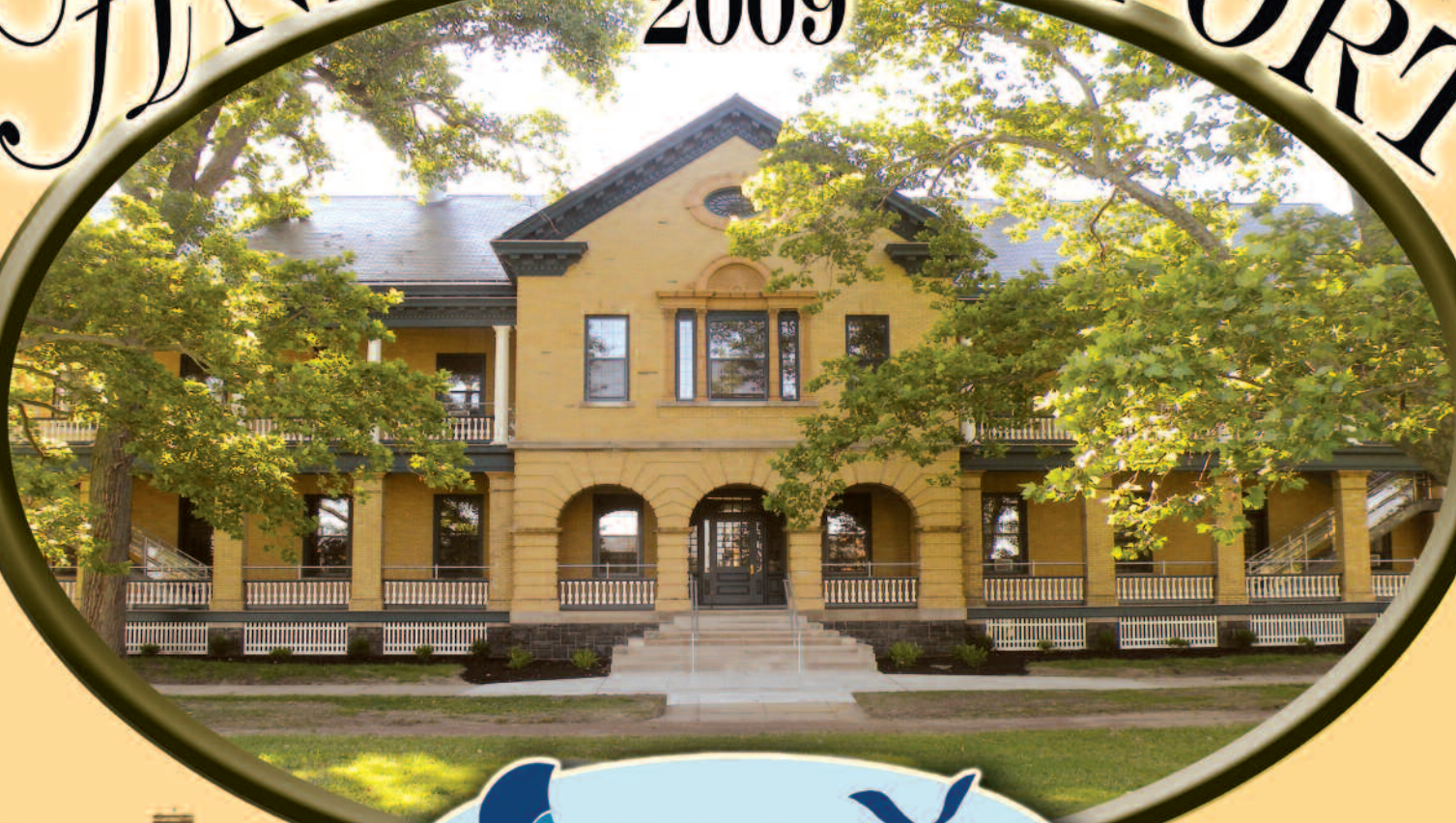


ANNUAL REPORT

2009



New Jersey
Marine Sciences
Consortium

Sea Grant
New Jersey

New Jersey Marine Sciences Consortium/ New Jersey Sea Grant



The New Jersey Marine Sciences Consortium/New Jersey Sea Grant (NJMSC/NJSG) is an affiliation of colleges, universities and other organizations dedicated to advancing knowledge and stewardship of New Jersey's marine and coastal environment.

Since 1969, the organization has been committed to realizing its vision of a sustainable future for New Jersey's coastal environment and meeting its mission to promote responsible use of that environment through innovative research, education and outreach programs.

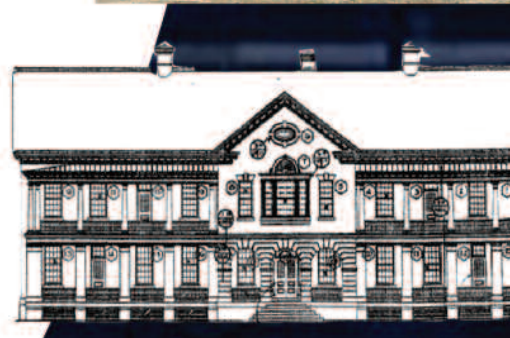
As it celebrated turning forty in 2009, NJMSC/NJSG launched one of its most exciting projects ever, a major exterior rehabilitation of its long-time headquarters at Building 22 in the historic Fort Hancock section of the Gateway National Recreation Area's Sandy Hook Unit. NJMSC/NJSG had the good fortune to receive a matching grant from the New Jersey Historic Trust and the Garden State Historic Preservation Trust Fund and with that began to restore the building to its original historic condition.

In 2009 alone, over 20,000 schoolchildren traveled to NJMSC/NJSG headquarters to learn more about the state's bays and beaches. This program is one of many education, research and outreach projects and services the organization provides, funds, and manages from its Sandy Hook home. The building has always served NJMSC/NJSG well and is certainly deserving of the preservation and care it is finally receiving.

From these newly renovated and refurbished quarters, NJMSC/NJSG stands ready to renew its commitment to the state's stakeholders and provide diverse programs and projects that will foster stewardship and wise management of the state's coastal resources for decades to come.

NJMSC/NJSG is also pleased to point out that in 2009 it made significant strides to renew its commitment to the environment and lighten its carbon footprint by producing a number of previously hard copy publications as digital only, including this Annual Report. In addition to being posted on njmsc.org for online reading, the publication is also available as a downloadable print format file on the web site or can be sent by request via email by contacting Kim Kosko, Director of Communications at kkosko@njmsc.org.

NEW JERSEY MARINE SCIENCES CONSORTIUM / NEW JERSEY SEA GRANT
22 Magruder Road Fort Hancock, NJ 07732
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CHAIRMAN'S MESSAGE



DENNIS T. KEARNEY
Chairman
Board of Trustees

*Stay true to
the mission.
Do the work.
Teach the
children.
Honor the
environment.*

Charity begins at home. My mother imbedded that truth into our little cores before she ever released us to the world. In these difficult times, I am ever mindful of that lesson. The New Jersey Marine Sciences Consortium/New Jersey Sea Grant remains true to its charitable mission: protecting our precious maritime resources. Although an economic nor'easter storms around us, the Consortium stands firmly on Sandy Hook, fulfilling the mandate of its many member institutions.

Two examples underscore our unwavering commitment to New Jersey's maritime well-being. First, when the Consortium renewed its long-term lease with the National Park Service, the Consortium committed to restoring and preserving Building 22. In 50/50 partnership with the New Jersey Historic Trust and the Garden State Historic Preservation Trust Fund, we are close to completing a \$1 million exterior restoration of our home. Drive around the Hook and you cannot miss us. We are the only building under construction. Imagine that: for-profit developers failed at Sandy Hook, yet the charitable corporation succeeds.

Second, New Jersey has now restored us to our original, independent status. Two years ago, we reported that New Jersey enacted legislation to slot us within the Department of the Treasury, where we hoped to find a stable commitment of State funding. Times being what they are in Trenton, the legislation has

been repealed, with the expectation to restore our annual grant-in-aid appropriation. As of this writing, though, the Consortium finds itself independent and unfunded by the State for the current fiscal year.

As we are overly fond of broadcasting, for every \$1 given us by New Jersey, the federal government grants us an additional \$2. We give back an eight-fold return on that State and federal investment. For all the potential wasted tax dollars out there, we remain a sound investment. More than that, we are a wise investment. The health of New Jersey is undeniably entwined with the health of our rivers, bays and oceans. We ignore them at our peril. Yet, our financial future is uncertain.

This is where my mother's lesson about charity comes into play. Stay true to the mission. Do the work. Teach the children. Honor the environment. Nothing of value will come from our fretting over tough times. We do what we do because the work is important, and because we have the best and most caring people. We will not be dissuaded or discouraged.

And at night, when you see a beacon shining on the Hook, it's not the lighthouse. It's us. We're working late for you.

On behalf of our Board of Trustees, employees and member institutions, I am proud to offer our Annual Report.

ACTING PRESIDENT'S MESSAGE



CLAIRE ANTONUCCI
Acting President/
Vice President
for Education

By working together we realized the ideals that brought us together in the first place - those same ideals that the Consortium was founded upon forty years ago.

It's hard to imagine that any annual report prepared for 2009 will not mention the economy. The global economic crisis continues its devastation near and far. Non-profits like us are no strangers to tough times. Because of this, I am confident we will see this downturn through. We are, of course, always mindful of our finances but we do answer to a higher power - our mission. And so, despite an uncertain economy, by remaining steadfast to our mission we will continue to make significant progress towards our goals of greater stewardship, understanding, and care of our state's marine and coastal resources. Our resolve enabled us to be very productive in 2009 and I am convinced it will enable us to prevail.

As this annual report shows, our 2009 accomplishments were many. We began a major restoration of Building 22, our long-time and beloved headquarters on Sandy Hook. The project is the first of its kind at Sandy Hook and it is our hope that it will spark much more restoration within the Fort Hancock section of Gateway National Recreation Area, Sandy Hook Unit. You will see our pride in this project reflected throughout this report. Building 22 is much more to us than office space and, despite the challenges of being located on a windswept barrier peninsula in a century old structure, I don't think any of us working out here would have it any other way. Our location is part of us and what we do. It contributes so much to our ability to carry out our mission and it deserves the care we are fortunate enough to be able to bestow upon it. It is truly our standout achievement of 2009.

As the restoration unfolded, the Consortium's many programs continued without interruption. Marinas became cleaner, greener places for the state's fishers and boaters and children found out that there's a whole lot more to beaches than sand. Coastal towns became better able to protect and sustain the natural resources their locations afford them and teachers gained new skills to make science education a whole lot more fun.

This year too, we set forth for ourselves a new strategic plan for the next four years. The plan supports the National Sea Grant Strategic Plan while equally recognizing and providing for the needs of New Jersey in the use and care of our marine and coastal environs. We now look forward its implementation.

This is only a fraction of what was achieved through the hard work of the Consortium's staff, board, members, partners and friends. By working together we realized the ideals that brought us together in the first place - those same ideals that the Consortium was founded upon forty years ago. I look forward to working with you as we forge ahead and thank you for your ongoing dedication and support.



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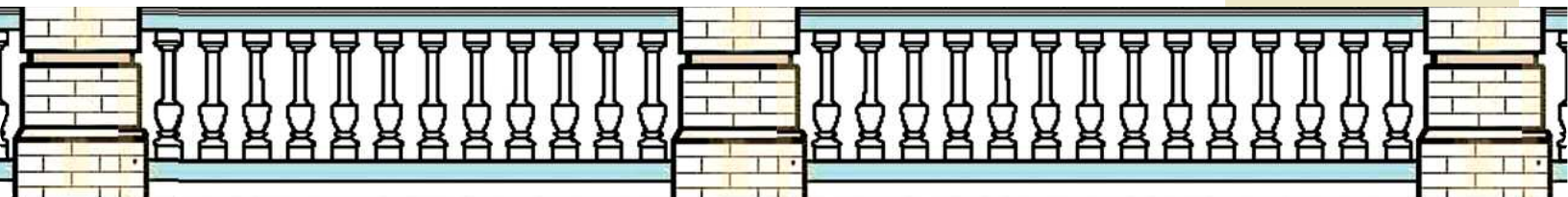
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NEW JERSEY SEA GRANT COLLEGE PROGRAM

As part of a nationwide network of 32 state programs housed within the National Oceanic and Atmospheric Administration, the New Jersey Sea Grant College Program works closely with coastal communities to foster environmental stewardship, long-term economic development and responsible use of New Jersey's coastal and ocean resources. The past year has been one of positive transition. The New Jersey Sea Grant College Program and its host institution, the New Jersey Marine Sciences Consortium have always had a similar mission to provide research and outreach programs that promote better understanding, conservation and use of New Jersey's coastal resources. As such, the programs have rebranded themselves as New Jersey Marine Sciences Consortium/New Jersey Sea Grant (NJMSC/NJSG).

This integration is inherent in how NJMSC/NJSG runs its activities, projects and programs and is the cornerstone of its recently developed strategic and implementation plan for the next four years. While our strategic and

implementation plan is based on our coastal stakeholders needs, it is also aligned with the National Sea Grant strategic and implementation plans in order to increase the impact of our activities at state, regional and national levels.

NJMSC/NJSG continues to invest in high-priority, stakeholder-driven research through competitive grants to scientists and educators in New Jersey. NJMSC/NJSG annually awards a third of its federal dollars towards research that addresses issues such as resiliency of coastal communities and their shorelines (beaches, dunes and marshes) to human impacts and coastal processes (storms and erosion); impacts on coastal ecosystems including invasive species and water quality; and natural and human impacts on fisheries and their management. The collective expertise and interaction of NJMSC/NJSG extension agents, educators and communications specialists with our Sea Grant funded investigators provide the foundation for the timely, relevant and meaningful dissemination of research results that can be applied by our coastal stakeholders.



EXTENSION PROGRAM

The New Jersey Sea Grant Extension Program (NJSSEP) continued to be extremely active and productive throughout 2009. In addition to Director Dr. Peter Rowe, permanent full-time staff at Sandy Hook included Michael Danko, Marine Recreation Agent and Jenny McCormick, Coastal Communities Agent. Jessica Staats continued her activities as a part-time Assistant Marine Recreation Agent.

The Extension Program also maintained successful Memoranda of Agreement with the Stevens Institute of Technology to retain the services of Dr. Jon Miller, Coastal Processes Specialist, and with Rutgers University Cooperative Extension for two new Water Resources Agents, Amy Boyajian and Jillian Thompson. Staff specialists and agents continued to engage the user community within the state through one-on-one interactions, technical assistance, educational activities and tours, invited presentations at conferences, workshops, symposia, seminars and outreach events, and memberships on boards, advisory councils, committees and associations. The following projects and activities represent some of the Extension Program's most notable efforts in 2009:

Coastal Communities

Coastal Communities Agent Jenny McCormick continued her work with coastal municipalities to increase their environmental stewardship and to promote that stewardship and coastal heritage to our coastal citizens and visitors. Jenny has also begun a project, supported by National Sea Grant funds that will make the laws pertaining to public access more readily available to our coastal stakeholders.

Educational Signage Projects

NJMSC/NJSG Extension Program partnered with the Shark River Cleanup Coalition and the Neptune Environmental Commission to develop five educational signs for the Shark River watershed in Neptune Township. These signs feature horseshoe crabs, birds, watersheds and coastal ecosystems and were unveiled on Earth Day 2009. Additionally, Jenny worked with a Boy Scout to develop an educational sign as part of his Eagle Scout project. This



sign features birds and is a part of the Treasure Trail in Belmar, a series of eleven interpretive signs on coastal ecosystems, wildlife, beach dynamics and coastal heritage.

Coastal Heritage NJ Website

Jenny, with input from an active coastal stakeholder committee and website design with the NJMSC/NJSG Communications Department, has developed a Coastal Heritage New Jersey website. This site provides information on attractions, monuments/memorials, museums, historic districts and other destinations celebrating the maritime heritage and culture of the Jersey Shore and Delaware Bay. Users can find out where to learn more about lighthouses and navigation aids, coastal defenses, boat-building and fishing cultures, historic districts and early cultures.

Coastal Processes

Coastal Processes Specialist, Dr. Jon Miller, located at Stevens Institute of Technology, continues to lead the way in finding solutions to mitigate or adapt

to coastal hazards and to educate coastal community leaders and citizens on the importance of being coastally aware. His activities include participation in NJMSC/NJSG outreach and press events, development and maintenance of a NJSG Coastal Processes Specialist Website (<http://cmn.dl.stevens-tech.edu/SeaGrant/>), efforts in shore protection systems, and outreach and research on sheltered shorelines.



Rip Current Awareness

The rip current awareness program continued to be one of the focal points for Dr. Miller and the NJMSC/NJSG Extension Program in 2009. Since 2004, NJSG has distributed in excess of 2,400 rip current warning signs and more than 10,000 rip current safety brochures to coastal communities. The still available signs and brochures were redesigned to be more consistent with the NOAA and National Sea Grant rip current awareness effort. Working with the NJMSC/NJSG Communications Department, coastal communities named as New Jersey's Top 10 Beaches for 2009 were also designated as "Rip Current Ambassador Communities." The designation recognized each community's commitment to work with NJSG in 2009 and beyond on the issue of rip current safety.



Coastal Hazards & Climate Change

Dr. Miller was heavily involved in education and outreach efforts aimed at reducing the exposure of New Jersey's coastal communities to and increasing their ability to recover from coastal hazards. Since 2007, NJSG extension has maintained a valuable website

EXTENSION PROGRAM

Continued

focused on the chronic impacts of climate change to urban coasts and economies. The website continues to be a valuable resource as evidenced by its nearly 1,000 page visits from 49 countries in 2009.

Dr. Miller participated in several regional and national meetings and workshops on coastal hazards and climate change that will allow him to present current information to coastal communities and stakeholders. These meetings included one in conjunction with celebrations surrounding the 400th anniversary of Henry Hudson's voyage to New York on the challenges posed by climate change and sea level rise, a conference lead by the National Sea Grant Office on exploring ways to more effectively communicate climate change related information to its stakeholders now and in the future, and a formative meeting of the Mid-Atlantic Regional Council on the Ocean (MARCO) that solicited input on coastal issues including climate change adaptation.

Marine Recreation

Marine Recreation Agent Michael Danko and Assistant Marine Recreation Agent Jessica Staats continued their extension activities and programs that promote both a healthy coastal ecosystem and coastal economy through environmental stewardship. These activities included website maintenance and distribution of brochures for the Boat Ramp Count and Condition Assessment, promotion of the New Jersey Clean Vessel Act Program to marina operators, distribution of Marine Fisheries Regulation Cards in partnership with the NJDEP Division of Fish and Wildlife, and conducting the New Jersey Clean Marina Program in partnership with

the New Jersey Department of Environmental Protection Office of Coastal Management.

Improving Recycling in the Recreational Boating Industry

Hundreds of tons of shrink wrap are used every year in New Jersey to protect boats during the harsh winter season. To reduce the amount of shrink wrap that ends up in landfills, NJMSC/NJSG Extension Program and the New Jersey Department of Environmental Protection (NJDEP) Coastal Management Office partnered in 2007, via a grant from the I BOAT NJ Program to increase the number of shrink wrap recycling locations and, launch an education and outreach effort to promote recycling shrink wrap and other materials used to store and maintain boats.

Through their hard work, Michael and Jessica have tripled the number of



disposal options/locations where boaters and marina owners can recycle shrink wrap to 30. In New Jersey, approximately 450,000 pounds of shrink wrap is purchased annually. Since the program's inception, the percentage of material recycled has increased from 66% to over 75%. As a result of the education and outreach effort approximately three recycling businesses have been able to expand their client base.

Marina Industry Enhancement Program

As an outgrowth of the Clean Marina Program, in 2009 the NJMSC/NJSG Extension Program launched the Marina Industry Enhancement Grant Program. Fueled by funding from the New Jersey



Department of Transportation's I BOAT NJ program, NJMSC/NJSG has awarded special grants to marinas throughout the state to help them implement projects and practices that will reduce potential environmental impacts associated with recreational boating. The grants are used to cover the marina's expenses for products that reduce or prevent environmental impacts, promote environmental enhancements and for other expenses or projects that directly help the marinas meet or maintain the requirements of the state's New Jersey Clean Marina Program. Approximately \$400,000 was awarded to thirty nine marinas for the implementation of best management practices.

Water Resources

NJMSC/NJSG Water Resources Agents Jillian Thompson and Amy Boyajian are both located at the Water Resources Program at Rutgers Cooperative Extension. They work with communities, schools, watershed groups and individuals to promote best management practices that result in the improved water quality in our watersheds and in making the connection of healthy watersheds to healthy estuarine and coastal waters.

Stormwater Management in Your Backyard (SWMIYB)

Amy and Jillian continued the successful statewide extension program entitled *Stormwater Management in Your Backyard (SWMIYB)* that focuses on rain gardens. Through their efforts ten new demonstration rain gardens were installed at publicly-accessible locations

EXTENSION PROGRAM

Continued

in six different counties in New Jersey. Through leveraging of funds in 2009 the agents trained two hundred professional landscapers as part of the *Rain Garden Training for Professional Landscapers* program. Additionally, Amy and Jillian developed a *Rain Garden Certification* program that trained fifty-five people from the environmental and gardening communities. Information on rain



gardens can be found at water.rutgers.edu/Rain_Gardens/RGWebSite/raingardens.html. As a new part of SWMIYB, they have implemented a program that uses rain barrels as a stormwater management practice.

Approximately two hundred and thirty rain barrels have been distributed through their rain barrel workshops. Additionally, thirty-five local artists had the opportunity to beautify rain barrels to make them more aesthetically appealing to the general public while bringing local art to a wider audience.

New Jersey Watershed Stewards

As a result of attending a national water conference, Amy and Jillian developed a new statewide extension program entitled *New Jersey Watershed Stewards (NJWS)*. The NJWS program raises awareness and empowers stakeholders to solve the problem

of nonpoint source pollution in watersheds throughout New Jersey. Through training and an apprenticeship New Jersey Watershed Stewards become instrumental in continuing their participation in watershed projects in New Jersey and thus improve the water quality of the New Jersey watersheds. As part of the apprenticeship, trainees participate in watershed-scale projects such as installing rain gardens, visually assessing streams, and assembling rain barrels,

Communications

Communications is a core program component that provides diversified creative and production services to the New Jersey Marine Sciences Consortium/New Jersey Sea Grant (NJMSC/NJSG) and the New Jersey Sea Grant Extension Program. In the simplest terms, it is the mission of Communications to deliver reliable and useful information based on sound science to the public. The Communications staff is responsible for effectively conveying information to the media, individuals and specific user groups, who can use and benefit from it. The information is based on research and activities generated from within the organization, but can also evolve from initiatives and input from other agencies and stakeholder groups seeking to increase understanding of New Jersey's coastal ocean environment. The Communications team designs, produces and distributes publications and other resource materials to appropriate audiences and uses all conventional means and mediums including, print, computer technology, radio and TV and constantly strives to develop innovative methods of transmitting information.



The Communication's staff is led by Director Kim Kosko, who oversees a creative, highly productive, award-

winning team of talented media professionals that in 2009 included Marsha Samuel, full-time Communications Specialist, part-time Graphic Designer and Communications Associate, Rory Joyce and part-time Web Master Cindi Valkos. The Communications team played an integral role and contributed to the success of all NJMSC/NJSG activities but also coordinated a number of department-specific special events and projects in 2009.

Seventh Annual State of the Shore Media Event



Representatives from dozens of television, radio, web and wire service, and newspaper outlets throughout the Tri-State area attended the

Communications Department's 7th Annual pre-summer premier State of the Shore media event. The *New Jersey: State of the Shore Report*, written and presented by Dr. Jon Miller, Coastal Processes Specialist, was the showcase and anchor publication for the event. Project partners included the NJDEP whose Commissioner Mark Mauriello addressed a number of selected coastal issues with a special focus on water quality, the NJ Department of Agriculture whose Secretary Douglas Fisher talked about the State's seafood industry and the future of aquaculture and the NJ Department of Travel and Tourism, with remarks provided by New



Jersey Secretary of State Nina Mitchell Wells. Millions of residents in New Jersey, New York and Pennsylvania and Connecticut were reminded of the

EXTENSION PROGRAM

Continued

importance of the State's coastal resources and their economic value to the State. NJMSC/NJSG's reputation as an accurate and relevant information source about the condition of the State's beaches and coastal issues in general was further strengthened at this much-anticipated annual media event.

New Jersey's Top Ten Beaches

The NJMSC/NJSG, the Richard Stockton College Coastal Research Center and the New Jersey Division of Travel and Tourism teamed up to create New Jersey's Top Ten Beaches, a project that promoted stewardship of and pride in New Jersey's beaches and generated publicity and public interest about the



Jersey Shore. The vehicle for the effort gave beachgoers the opportunity to vote for their favorite beach with the New Jersey's Top Ten Beaches Survey via its official voting website njtoptenbeaches.org.

Conceived by Dr. Stewart Farrell, Professor of Marine Science at Richard Stockton College, and Kim Kosko, Director of Communications for NJMSC/NJSG, the survey votes were collected through the website. Survey respondents

voted for the best beaches in four categories: Family Destinations, Day Trips, Shore Events and Ecotourism. Objective geographical and other data annually collected by Dr. Farrell and his team of scientists at the Coastal Research Center were factored into the formula used to select the winners.

Winners were announced at the Annual New Jersey State of the Shore Media Event in May 2009, which garnered unprecedented pre-event media interest. The event also helped stimulate interest in the Jersey Shore as a tourism destination before and during the critical shore tourism season by encouraging residents and visitors to take daily or longer Jersey Shore vacations in 2009. The project also demonstrated NJSG's ability and credibility for conducting public opinion surveys and polls.

The Stew Tweed Fisheries and Aquaculture Scholarship

The NJMSC/NJSG and its New Jersey Sea Grant Extension Program established a scholarship fund to honor the memory of Stew Tweed who worked as a Marine Agent for the NJSGEP between 1978 and 2005. The scholarship first awarded in 2008 is designed to perpetuate Stew's passion for shellfish culture and marine science education. A generous group of commercial fishing and seafood

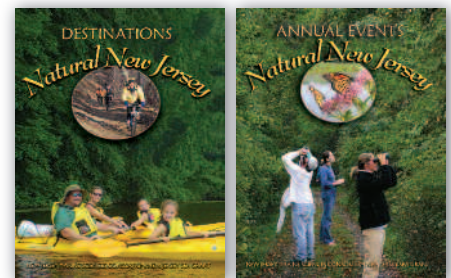


industry leaders and individual benefactors recruited by Project Coordinator Kim Kosko established

enough "seed" money to fund the scholarship program for ten years. In 2009 two scholarships were awarded to support one graduating high-school senior (\$1,000) and one undergraduate/graduate student (\$1,500) pursuing studies or an outstanding research or technology project focusing on fisheries or aquaculture.

Natural New Jersey Pocket Guides

In mid-2009, the Communications Department released a pair of pocket-sized companion publications, *Natural New Jersey: Destinations* and *Natural New Jersey: Annual Events* which



provide basic, essential information about ecotourism, suggested destinations and popular annual events in the Garden State. The publication was created to encourage residents and visitors to think beyond the routine tourism experience and consider nature-based recreational destinations and cultural activities and more importantly, foster an attitude of appreciation and increased responsibility toward New Jersey's natural resources.

More than 60,000 of the guides were distributed throughout the State via Travel and Tourism Welcome Centers, at special events and workshops, in partnership with County and regional tourism representatives and through the organization's web site.



RESEARCH AWARDS

New Jersey Sea Grant Program Omnibus Projects



R-6848-0001

An Unwelcome Guest? Is the Presence of the Invasive Swim-Bladder Parasite, *Anguillicola crassus*, Influencing American Eel (*Anguilla rostrata*) Recruitment in New Jersey Estuaries?
Dr. Mark Sullivan
The Richard Stockton College of New Jersey

R-6847-0001

Assessing the Impact of the Invasive Asiatic Sand Sedge, *Carex kobomugi*, on Coastal Dune Communities in New Jersey
Dr. Louise Wootton
Georgian Court University



R-6840-0004

Evaluation of Wind and Wave Processes Critical in Sustaining Beach Backshore Environments
Dr. Karl Nordstrom
Rutgers University



R-6840-0005

Marker-assisted Breeding Technology for the Eastern Oyster
Dr. Ximing Guo
Rutgers University



R-6840-0003

Shoreline Stabilization and Ecosystem Enhancement of Eroding Marsh Habitats Using Intertidal Reef Communities
Dr. David Bushek
Rutgers University



R-6840-0002

Habitat Dynamics of Adult Winter Flounder: Connectively Between Estuaries and Inner Continental Shelves Influence Management of Human Impacts Associate with Dredging
Dr. Kenneth Able
Rutgers University



Knauss Fellow



Elizabeth Livermont
Stevens Institute of Technology
Placed at NOAA-NMFS Office of Protected Resources

Development Grants

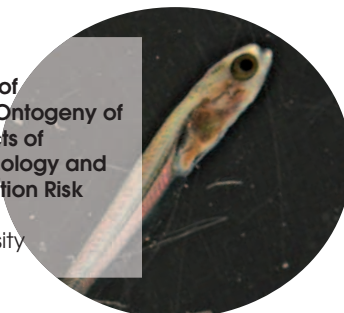


R-6605-0003

System Dynamic Model Development for Passaic River Watershed Sustainability and Environmental Management Study
Dr. Huan Feng
Montclair State University

R-6605-0004

Sub-Lethal Effects of Contaminants on Ontogeny of Larval Fishes: Effects of Changes in Morphology and Behavior on Predation Risk
Dr. Ursula Howson
Monmouth University



National Sea Grant Program Strategic Initiatives



R/6742-0001

Validation of Disease-Resistance Markers for Marker-assisted Selection in the Eastern Oyster
Dr. Ximing Guo
Rutgers University

National Sea Grant Law Center Mini-Grant

7901-0000

Coastal Access Tools Web Site
Robert Kempf – Student Researcher
Rutgers University School of Law

EDUCATION

Each year, rain or shine, the staff of the Education Program at the New Jersey Marine Sciences Consortium/New Jersey Sea Grant (NJMSC/NJSG) directs their energies towards assuring that New Jerseyans of all ages understand and appreciate the marine and coastal environment that surrounds and sustains them. For the most part, this is accomplished through active learning experiences offered by Education staff to the public, especially children, conducted out of doors on the beaches and bays of the Jersey Shore. Each activity, from field trips to public events to curriculum development is guided by the precept that learning by doing is best.

The Education Program currently consists of three full time staff, three part-time staff and roughly 35 part-time seasonal staff.

Full time personnel are the Program's director, Claire Antonucci, Vice President for Education and Acting President of NJMSC/NJSG, Rosemary Higgins, College and Special Programs Coordinator, and Diana Burich, K-12 Program Coordinator. Part-time personnel are Mindy Voss, Harbor Education Specialist, Cindi Valkos, Webmaster, Administrative Assistant and Reservations Coordinator, and Jessica Staats, Assistant Education and Outreach Coordinator.

This staff has the unique advantage of being able to work closely with the research, extension, and communications departments of the NJMSC/NJSG. These interactions enrich the content and context of all projects undertaken.

The Program is proud to list the following accomplishments and highlights for 2009:

Eleven different field-trip programs, known collectively as **The Coastal Experience**, served more than 22,000 school-children from over 900 school districts statewide. Each program supports state and national content standards

and uses a "hands-on" approach with each student getting to "do science" on the beaches and bays of Sandy Hook and other coastal locations. The trips are supported by NJMSC/NJSG produced curriculum materials including lesson plans and student worksheets shared via the Consortium's website at njmsc.org.



Summer College Program:

In cooperation with Brookdale Community College, this program served 139 undergraduate students from the Consortium's many member

institutions. Coursework ranged from introductory courses in oceanography and marine biology to SCUBA. These programs use the outdoors as a classroom and living laboratory.



Marine Science

Summer Camp:

Eight week-long sessions of camp were fully booked and hosted in 2009 for a total of 185 children from grades 3 through 8. Each week campers worked alongside

education staff to explore the science of the seashore. Camp activities included water quality testing, fish and plant identification and laboratory investigations including the very popular shark dissection.



Scout Programs: An extensive collection of weekend and after-school programs for Boy and Girl Scouts and other informal groups was offered. Each program fulfilled specific badge requirements through participation in marine and coastal activities. Nearly 2200 school-aged children participated in this program during 2009.

All Hands On Deck (AHOD): AHOD provides estuarine and ports commerce education focused on the biological and human dimensions of New Jersey's ports and harbors. The program is offered in partnership with New Jersey Department of Transportation



EDUCATION

Continued

Office of Maritime Resources. During 2009, AHOD activities included in-school presentations, land and water-based field trips at the Port of Camden and the Port of New York/New Jersey and professional development workshops. Through partnerships with port-related industries and groups (i.e. Port Authority of NY/NJ and their tenants, Army Corps of Engineers, South Jersey Ports Corporation, Sandy Hook Pilots, etc.) a port-careers and workplace readiness component was incorporated into each AHOD activity. During 2009, over 750 New Jersey students participated in AHOD and 75 teachers received professional development training.

Oceans To Go! Offered as an alternative for schools and groups who find travel to Sandy Hook difficult, Oceans To Go! brought marine science education to school and after-school centers statewide.

The program brings the sea to these centers by providing opportunities to observe live aquatic animals and other



specimens and to participate in "mobile" laboratory set ups. In addition to the many districts the Program visited during 2009, Oceans To Go! remained a permanent part of the Linden and Keansburg School District's Family Science and After-School programming.

F.I.S.H. – Families Investigate Science Hands-on: This series of programs offered weekend sessions for parents and caregivers interested in sharing quality time with their children enjoying nature and learning about New Jersey's marine and coastal environment. Providing this category of programming has become more important than ever due to the national recognition of the need to get children outdoors. During 2009, nearly 350 New Jersey citizens came out to the NJMSC/NJSG with their children to join in on these family-based programs.

Public Outreach and Lifelong Learning: Encouraging and supporting lifelong learning in marine science was accomplished through the Education Program's varied efforts in public outreach. Typical activities in public education included contributing expertise to workshops and bringing informative exhibits to outreach events sponsored by groups such as the Barnegat Bay Estuary Program, New Jersey School-Aged Childcare Coalition, James J. Howard Marine

Laboratory, New Jersey Marine Educators Association and the New Jersey Science Teachers Association. In addition, the Education Program hosts two of its own



outreach events annually, Coast Day NJ and Ocean Fun Days. Both events enable the Program to educate the public on New Jersey's marine and coastal resources and issues. In addition, the events provided a well-organized and well-promoted outreach opportunity for NJMSC/NJSG's Extension and Communications Programs and dozens of other like-minded organizations (local and regional environmental groups, government and non-government agencies, colleges, universities and non-formal education centers, etc.) to reach out to the public.

Professional Development for Educators: Professional development or "training the trainer" is regarded as essential to accomplishing the goal of marine science literacy for all. Professional development activities in 2009 were divided between two audiences, in-service educators and pre-service



education students. Workshops for K-12 educators focused on giving the tools, confidence and support teachers need to bring the marine sciences into classrooms, after-care centers and other educational venues. Last year nearly 275 educators received some type of professional development training from the Education Program for a total of 2980 contact hours. On-going partnerships with Monmouth University, Montclair State University and Seton Hall University allowed the Education Program to contribute training and "hands-on" field experience in teaching marine and marine related environmental science to the next generation of teachers' coursework.



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Pennsylvania, Maryland, Colorado and
Florida

Independent Auditors' Report

To the Board of Trustees,
New Jersey Marine Sciences Consortium, Inc.:

We have audited the accompanying statements of financial position of New Jersey Marine Sciences Consortium, Inc. as of September 30, 2009 and 2008 and the related statements of activities and changes in net assets, cash flows and functional expenses for the years then ended. These financial statements are the responsibility of New Jersey Marine Sciences Consortium, Inc.'s management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards issued by the Comptroller General of the United States. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of New Jersey Marine Sciences Consortium, Inc. as of September 30, 2009 and 2008, and the changes in its net assets and its cash flows for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

In accordance with Government Auditing Standards, we have also issued a report dated April 26, 2010 on our consideration of New Jersey Marine Sciences Consortium, Inc.'s internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards and should be considered in assessing the results of our audit.

Our audits were performed for the purpose of forming an opinion on the basic financial statements of New Jersey Marine Sciences Consortium, Inc. taken as a whole. The accompanying schedule of expenditures of Federal awards and state financial assistance for the year ended September 30, 2009 is presented for purposes of additional analysis as required by the U.S. Office of Management and Budget OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations and the State of New Jersey, Department of the Treasury OMB Circular 04-04-OMB and is not a required part of the basic financial statements. Such information has been subjected to the auditing procedures applied in the audits of the basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

A handwritten signature in blue ink that reads 'WithumSmith+Brown, PC'.

April 26, 2010

New Jersey Marine Sciences Consortium, Inc.

Statements of Financial Position
September 30, 2009 and 2008

Assets	2009	2008
Current assets		
Cash	\$ 808,062	\$ 2,034,926
Investments	1,013,166	--
Accounts receivable	52,858	56,091
Grants and contracts receivable	366,295	526,005
Prepaid expenses and other current assets	43,186	58,044
Total current assets	<u>2,283,567</u>	<u>2,675,066</u>
Property and equipment, net	191,615	232,621
Construction in progress	<u>191,081</u>	<u>92,560</u>
	<u>\$ 2,666,263</u>	<u>\$ 3,000,247</u>
Liabilities and Net Assets		
Current liabilities:		
Accounts payable and accrued expenses	\$ 133,931	\$ 123,961
Due to subrecipients	--	161,981
Deferred revenue	<u>19,248</u>	<u>212,075</u>
Total current liabilities	153,179	498,017
Net assets		
Unrestricted	<u>2,513,084</u>	<u>2,502,230</u>
	<u>\$ 2,666,263</u>	<u>\$ 3,000,247</u>

Statements of Activities and Changes in Net Assets
Years Ended September 30, 2009 and 2008

	2009	2008
	<u>Unrestricted</u>	<u>Unrestricted</u>
Support and revenues		
Grants and contract revenue	\$ 1,634,778	\$ 2,405,394
Contributions	105,557	55,891
Educational and service program revenue	226,416	226,984
Membership dues	35,958	41,500
Interest income	20,484	49,484
Loss on sale of asset	(16,142)	--
Other income	<u>80,369</u>	<u>47,027</u>
	2,087,420	2,826,280
Expenses		
Program services		
Educational activities	403,939	333,075
Research activities	<u>1,148,616</u>	<u>1,863,141</u>
	1,552,555	2,196,216
General and administrative	<u>524,011</u>	<u>458,059</u>
	2,076,566	2,654,275
Change in net assets	10,854	172,005
Net assets, beginning of year	<u>2,502,230</u>	<u>2,330,225</u>
Net assets, end of year	<u>\$ 2,513,084</u>	<u>\$ 2,502,230</u>

The Notes to Financial Statements are an integral part of these statements.

New Jersey Marine Sciences Consortium, Inc.

Statements of Cash Flows
Years Ended September 30, 2009 and 2008

	2009	2008
Cash flows from operating activities		
Changes in net assets	\$ 10,854	\$ 172,005
Adjustments to reconcile change in net assets to net cash provided by operating activities:		
Depreciation	17,914	21,262
Loss on sale of asset	16,142	--
Changes in net assets and liabilities		
Accounts receivable	3,233	(34,652)
Grants and contracts receivable	159,710	(215,878)
Prepaid expenses and other current assets	14,858	(12,529)
Accounts payable and accrued expenses	9,970	(83,076)
Due to subrecipients	(161,981)	122,596
Deferred revenue	(192,827)	72,743
Net cash (used) provided by operating activities	(122,127)	42,471
Cash flows from investing activities		
Purchase of investments	(1,013,166)	--
Proceeds from sale of asset	6,950	--
Construction in progress	(98,521)	(18,385)
Net cash used by investing activities	(1,104,737)	(18,385)
Net (decrease) increase in cash	(1,226,864)	24,086
Cash		
Beginning of year	2,034,926	2,010,840
End of year	\$ 808,062	\$ 2,034,926

Supplemental disclosure of cash flow information

No amounts were paid for interest or income taxes for the years ended September 30, 2009 and 2008.

The Notes to Financial Statements are an integral part of these statements.

Statements of Functional Expenses
Year Ended September 30, 2009

	Program Services				
	Educational Activities	Research Activities	Total Program Services	General and Administrative	Total
Salaries	\$ 232,086	\$ 322,328	\$ 544,414	\$ 294,745	\$ 849,159
Payroll taxes and benefits	71,065	122,325	193,390	74,149	267,539
Payments to subrecipients	--	609,597	609,597	--	609,597
Professional fees	12,900	20,775	33,675	39,738	73,413
Supplies	20,241	12,221	32,462	26,416	58,878
Advertising	4,593	1,575	6,168	135	6,303
Telephone	--	4,676	4,676	10,133	14,809
Postage	3,169	3,402	6,571	2,862	9,433
Occupancy	--	--	--	45,449	45,449
Repairs and maintenance	--	--	--	8,559	8,559
Printing	7,441	7,813	15,254	9,159	24,413
Transportation	--	147	147	133	280
Fleet Costs	28,475	7,600	36,075	--	36,075
Depreciation	1,192	12,401	13,593	4,321	17,914
Conference and training	11,789	11,484	23,273	7,331	30,604
Dues and subscriptions	7	7,622	7,629	840	8,469
Awards	201	4,650	4,851	--	4,851
Miscellaneous	10,780	--	10,181	41	10,821
	\$ 403,939	\$ 1,148,616	\$ 1,552,555	\$ 524,011	\$ 2,076,566

The Notes to Financial Statements are an integral part of these statements.

Statement of Functional Expenses
Year Ended September 30, 2008

	Program Services				Total
	Educational Activities	Research Activities	Total Program Services	General and Administrative	
Salaries	\$ 195,741	\$ 555,380	\$ 751,121	\$ 212,932	\$ 964,053
Payroll taxes and benefits	53,907	179,411	233,318	54,790	288,108
Payments to subrecipients	--	888,652	888,652	--	888,652
Professional fees	7,480	66,400	73,880	28,625	102,505
Supplies	24,857	51,665	76,522	17,047	93,569
Advertising	7,951	578	8,529	81	8,610
Telephone	--	3,389	3,389	13,098	16,487
Postage	2,107	9,118	11,225	5,739	16,964
Occupancy	--	--	--	99,234	99,234
Repairs and maintenance	--	485	485	3,642	4,127
Printing	6,785	51,834	58,619	4,700	63,319
Transportation	83	542	625	110	735
Fleet Costs	18,038	--	18,038	--	18,038
Depreciation	4,540	12,401	16,941	4,321	21,262
Conference and training	11,586	27,081	38,667	7,240	45,907
Dues and subscriptions	--	874	874	5,950	6,824
Awards	--	5,150	5,150	550	5,700
Miscellaneous	--	10,181	10,181	--	10,181
	<u>\$ 333,075</u>	<u>\$ 1,863,141</u>	<u>\$ 2,196,216</u>	<u>\$ 458,059</u>	<u>\$ 2,654,275</u>

The Notes to Financial Statements are an integral part of these statements.

New Jersey Marine Sciences Consortium, Inc.

Notes to Financial Statements
September 30, 2009 and 2008**1. Organization and Purpose**

New Jersey Marine Sciences Consortium, Inc. ("NJMSC") is a private New Jersey, nonprofit organization comprised of colleges, universities, and private groups interested in marine science. Founded in 1969, its mission is to utilize the talents and resources of its membership to provide research, education, and services that address marine and coastal science issues for the people of New Jersey. NJMSC is primarily funded by the U.S. Department of Commerce Sea Grant Program and various departments of the State of New Jersey.

2. Summary of Significant Accounting Policies**Basis of Presentation**

External financial reporting by not-for-profit organizations requires that resources be classified for accounting and reporting purposes into net asset categories according to externally (donor) imposed restrictions. The unrestricted net asset category represents net assets that are not subject to donor imposed restrictions, the temporarily restricted net asset category represents net assets that are subject to time or purpose donor imposed restrictions and the permanently restricted net asset category represents net assets that are subject to donor imposed restrictions that cannot be satisfied by either the passage of time or by actions of NJMSC. During the years ended September 30, 2009 and 2008 NJMSC had accounting transactions in the unrestricted net asset category.

Revenue and Support Recognition

NJMSC recognizes contributions as revenue when they are received or unconditionally pledged and records these revenues as unrestricted or restricted support according to donor stipulations that limit the use of these assets due to time or purpose restrictions. When a donor restriction expires, temporarily restricted net assets are reclassified and reported in the statements of activities and changes in net assets as net assets released from restrictions. However, the receipt of restricted contributions whose restrictions expire or are otherwise satisfied within the period of receipt are reported as unrestricted revenues in the statements of activities and changes in net assets.

NJMSC accounts for those contract revenues which have been determined to be exchange transactions in the statements of activities and changes in net assets to the extent that expenses have been incurred for the purpose specified by the grantor during the period. Program revenues received in advance of their usage are classified as deferred revenue in the statements of financial position. In applying this concept, the legal and contractual requirements of each individual contract are used as guidance.

Additional unrestricted revenues are obtained from educational and service program revenue, membership dues, and investment income. These revenues are used to offset program expenses as well as the cost of property and equipment acquisitions and general and administrative expenses.

Income Taxes

NJMSC is exempt from Federal income taxes under Section 501(c)(3) of the Internal Revenue Code. Accordingly the financial statements do not reflect a provision for Federal income taxes. NJMSC adopted the pronouncement related to income taxes effective October 1, 2008 and there were no uncertain tax positions at the date of adoption or at September 30, 2009. There are no open tax years prior to 2006.

Valuation of Long-Lived Assets

In accordance with the accounting pronouncements related to accounting for the impairment or disposal of long-lived assets, NJMSC reviews long-lived assets, including property and equipment, for impairment whenever events or changes in business circumstances in not be fully recoverable. Management has determined that no assessment was required for the periods presented in these financial statements.

Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

New Jersey Marine Sciences Consortium, Inc.

Notes to Financial Statements

September 30, 2009 and 2008

Advertising

Advertising is expensed in the period incurred. Advertising amounted to \$6,303 and \$8,610 at September 30, 2009 and 2008, respectively.

Property, Equipment and Depreciation

Property and equipment of \$5,000 or greater is capitalized and recorded at cost, except for donated items which are recorded at fair value at the date of donation. At the time of retirement or other disposition of assets, the cost and accumulated depreciation are removed from the accounts and any gains or losses are reflected in the statements of activities and changes in net assets. When an asset is sold or retired, the cost and accumulated depreciation are removed from the respective accounts. Maintenance and repairs are charged to operations as incurred.

Depreciation is provided over the estimated useful lives of the assets using the straight-line method. Assets class lives are as follows:

Description	Estimated Life (Years)
Building improvements	5-20
Marine equipment	3-12
Automotive equipment	5-12
Machinery and equipment	5-12

Expense Classification

The expenses of NJMSC are presented in the statements of activities and changes in net assets under the following classifications which describe NJMSC program activities:

Educational activities – supports the educational goals of NJMSC by planning and conducting a wide range of K-12, college, teacher, and public education programs.

Research activities – aids and encourages scholarly activities in marine related subjects through cost reimbursement contracts.

All expenses which were not directly associated with the above service categories, are categorized as general and administrative expenses. Additionally, there is a de minimis amount of fundraising expense that has been included in general and administrative expenses.

3. Grants and Contracts Receivable and Payable and Deferred Revenue

NJMSC operates under various grants and contracts. At September 30, 2009 and 2008, NJMSC was due certain amounts from funding sources which resulted from expenditures incurred in excess of payments received. In addition, NJMSC received advances from certain funding sources which represent payments in excess of expenditures incurred which have been recorded as deferred revenue. The following details the grants and contracts receivable and deferred revenue at September 30:

Grants and Contracts Receivable

	2009	2008
Funding Agency		
U.S. Department of Commerce		
National Oceanic and Atmospheric Administration		
Sea Grant Programs	\$ 181,915	\$ 310,649
Knauss Fellowship Award	6,939	6,061
U.S. Environmental Protection Agency	–	24,537
State of New Jersey – Department of Environmental Protection		
Coastal Management Division	–	6,500
Division of Game and Wildlife	–	26,168
State of New Jersey – Department of Treasury	–	85,000
Department of Transportation Maritime Resources	112,814	54,873
New Jersey Historic Trust	51,167	–
Other	13,460	12,217
	<u>\$ 366,295</u>	<u>\$ 526,005</u>

New Jersey Marine Sciences Consortium, Inc.

Notes to Financial Statements
September 30, 2009 and 2008

Deferred Revenue

Funding Agency	<u>2009</u>	<u>2008</u>
U.S. Department of Commerce		
National Oceanic and Atmospheric Administration		
Knauss Fellowship Award	\$ 2,747	\$ 2,116
Clean Marina Program	--	1,970
U.S. Department of Agriculture	--	1,444
State of New Jersey – Department of Treasury		
Higher Education	--	102,158
State of New Jersey – Division of Agriculture and Natural Resources	--	36,690
Other	<u>16,501</u>	<u>67,697</u>
	<u>\$ 19,248</u>	<u>\$ 212,075</u>

4. Recurring Fair Value Measurements

Pursuant to the requirements of the accounting pronouncement on fair value measurements, which is effective for years beginning after November 15, 2007, NJMSC has provided fair value disclosure information for relevant assets and liabilities in these financial statements. The following table summarizes assets (liabilities) which have been accounted for at fair value on a recurring basis as of September 30, 2009, along with the basis for the determination of fair value:

	Total	Quoted Prices in Active Markets (Level 1)	Observable Measurement Criteria (Level 2)	Unobservable Measurement Criteria (Level 3)
Certificates of deposit	<u>\$ 1,013,166</u>	<u>\$ --</u>	<u>\$ 1,013,166</u>	<u>\$ --</u>

For applicable assets subject to this pronouncement, NJMSC will value such assets using quoted market prices in active markets (Level 1) for identical assets to the extent possible. To the extent possible that such markets are not available, NJMSC will next attempt to value such assets using observable measurement criteria (Level 2), including quoted market prices of similar assets in active and inactive markets and other corroborated factors. In the event that quoted market prices in active markets and other observable measurement criteria are not available, NJMSC will develop measurement criteria based on the best information available (Level 3).

4. Property and Equipment

Property and equipment, shown net of accumulated depreciation at September 30, consisted of the following:

	<u>2009</u>	<u>2008</u>
Building improvements	\$ 167,017	\$ 167,017
Marine equipment	--	203,765
Automotive equipment	29,154	29,154
Machinery and equipment	<u>685,688</u>	<u>685,688</u>
	881,859	1,085,624
Less: Accumulated depreciation	<u>690,244</u>	<u>853,003</u>
	<u>\$ 191,615</u>	<u>\$ 232,621</u>

NJMSC has \$191,081 and \$92,560 of construction in progress for the years ended September 30, 2009 and 2008. This construction is related to the rehabilitation of NJMSC's offices and field station at 22 Magruder Road, Fort Hancock, New Jersey.

Depreciation expense totaled \$17,914 and \$21,262 for the years ended September 30, 2009 and 2008, respectively.

New Jersey Marine Sciences Consortium, Inc.

Notes to Financial Statements
September 30, 2009 and 2008

6. Line of Credit

NJMSC maintains a revolving line of credit of \$250,000, expiring January 31, 2011 which bears interest at the bank's prime rate plus .50 percent. The line of credit is secured by the accounts receivable, grants and contracts receivable and equipment of NJMSC. NJMSC had no amounts outstanding at September 30, 2009 and 2008 and there were no draw downs on the line during the years ended September 30, 2009 and 2008.

7. Retirement Plan

NJMSC has a 403(b) contributory defined contribution retirement plan (the "Plan") for those employees who meet the eligibility requirements. Employees must have one year of service and 1,000 hours to be eligible for the Plan. Participants must contribute a minimum of 2 percent of eligible salaries in order to receive a 6 percent contribution from NJMSC to the Plan. Pension expense amounted to \$46,408 and \$51,156 for the years ended September 30, 2009 and 2008, respectively.

8. Leased Facilities

NJMSC occupies facilities owned by the National Park Service at Fort Hancock, New Jersey. NJMSC pays for all operating costs including, but not limited to, utilities, repairs and maintenance. NJMSC entered into a twenty-year lease agreement which calls for minimum lease payments of \$28,240 per year. Rental expense for these facilities for each of the years ended September 30, 2009 and 2008 was \$28,240.

9. Concentrations of Credit Risk

Financial investments which potentially subject NJMSC to concentrations of credit risk consist of cash and receivables. In an attempt to limit the credit risk, NJMSC places all funds with high quality financial institutions. Management has not experienced any losses. Receivables are due from various governmental agencies with whom NJMSC has a long history of collecting payments, which reduces the credit risk. For the years ended September 30, 2009 and 2008, NJMSC received 55 percent, and 51 percent, respectively of its revenues from Federal agencies and 23 percent and 28 percent respectively from state agencies.

10. Subsequent Events

NJMSC has evaluated subsequent events occurring after the statement of financial position date through the date of April 26, 2010, which is the date the financial statements were available to be issued. Based on this evaluation, it is noted that for fiscal year 2010 NJMSC will not be receiving any funds from the State of New Jersey Department of Treasury. These funds were used as the required match for the Sea Grant. NJMSC has sufficient unrestricted funds to be able to continue to meet their matching requirement.

On January 8, 2010 the State of New Jersey repealed P.L.2007, c.206. which had provided New Jersey Marine Sciences Consortium with statutory authorization.

11. Reclassifications

Certain amounts were reclassified at September 30, 2008 to conform to the presentation at September 30, 2009. These reclassifications have no effect on changes in net assets.