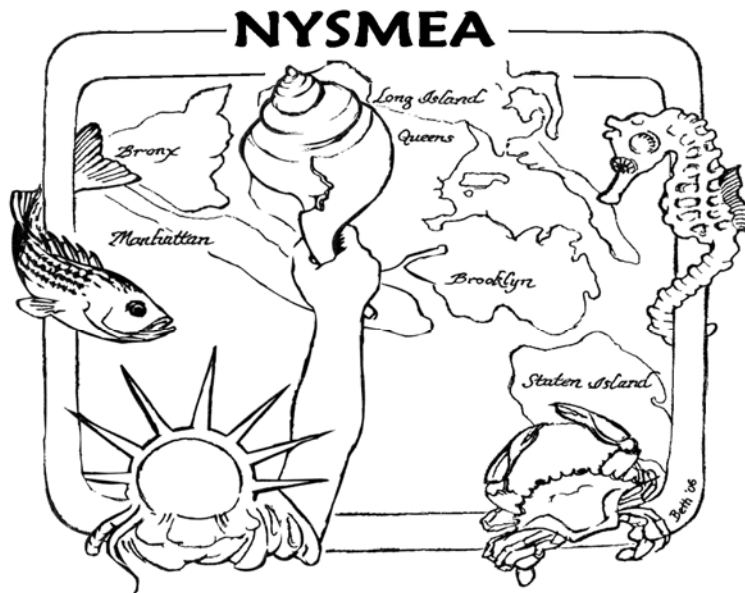


**New York State Marine
Education Association**

Presents

**32nd Annual Conference
June 11-13, 2010**

**“Marine Habitats:
Changing Landscapes”**



NYC - A City of Islands

New York State Marine Education Association

**Stony Brook Southampton College
Southampton, NY**

NYSMEA 2010: 32nd Annual Conference
Stony Brook Southampton
“Marine Habitats: Changing Landscapes”

Friday, June 11

11 am - 5:30 pm	Registration	Chancellors Hall Lobby
11 am - 9 pm	Check into Dorm	Shelter Island Dorm (Get key in Amagansett Dorm)
1 - 4 pm	Workshop: <i>Project Wet</i> Larissa Graham	Marine Station
1 - 3 pm	Workshop: <i>Get Energy Smart with NYSERDA</i> (NYS Energy Research & Development Authority)- Dr. Meryll Kafka	CH 234
4 - 5 pm	Wine & Cheese Reception with Light Classical Music Welcome by Dr. Anne McElroy, SOMAS NYSMEA Committee Recruitment Radio Show Interviews w/ Bernie Wides	CH Lobby/Patio
5:15 - 6:45 pm	Buffet Dinner (shared with others)	Student Café
7 - 7:30 pm	Film: “Colors of the Sea,” narrated by Suzanne and Glenn Rankin	Duke Lecture Hall, CH
7:45 - 9 pm	Speaker: Chris La Porta, NYS DEC <i>New York’s Artificial Reef Program: The Benefits of Aquatic Recycling</i>	Duke Lecture Hall, CH
9 - 9:45 pm	Coffee, Cookies and Mingling Some exhibits will be displayed	Chancellors Hall Lobby

Saturday, June 12

6 - 7:30 am	Horseshoe Crab Walk with Dr. John Tanacredi	Meet in Parking Lot
8 - 9 am	Continental Breakfast	Chancellors Hall Lobby
8 am - 2 pm	Registration and Exhibits	Chancellors Hall Lobby
9 - 10:30 am	Welcome and Keynote Speaker Paul Mankiewicz, Gaia Institute: <i>Groundwater Issues in NYC</i>	Duke Lecture Hall, CH
10:30 - 10:45	Coffee Break	CH Lobby
10:45 - 11:45 am	Session 1:	
	Bill Nelson, USCG: <i>Introduction to Aquatic Nuisance Species</i>	CH Room 234
	Peg Dickerson: <i>Green Teaching</i>	CH Room 235
	Julika Wocial: <i>Connecting Classrooms and the Ocean: An After-School Marine Science Program Experience. Find Out How Your School Can Get Involved!</i>	CH Room 236
11:50-12:50 pm	Session 2:	
	Sarah Richards, Ariana Rickard, Barbara Cohen and Bernie Wides: <i>Using the Phytoplankton Monitoring Network as a Teaching Tool</i>	CH Room 234
	Dr. Meghan Marrero: <i>Making Connections to Marine Debris</i>	CH Room 235
	Yumiko Iwasaki: <i>What is a Trilobite?</i>	CH Room 236
1 - 2 pm	Lunch/Exhibitors/Student Posters	CH Lobby and Patio
2:30 - 4:30 pm	<i>Boat Trip</i> (\$20)	Marine Station
	<i>Build Your Own ROV</i> w/ Bill Monahan	Marine Station
5 - 6:15 pm	Keynote Speaker: Dr. Eric Sanderson, Mannahatta Project:	Duke Lecture Hall, CH

	<i>A Look at the Ecological Transformation of Manhattan During the Past 400 Years</i>	
6:30 – 7:30 pm	Wine and Cheese, Silent Auction Books available for buying and signing	CH Lobby
7:30-7:45 pm	Silent Auction “Winners” Announced	Duke Lecture Hall, CH
8:00 – 9:00 pm	Buffet Dinner (chicken and pasta)	Student Cafe
9:00 – 10:00 pm	Awards & Live Auction	Student Cafe

Sunday, June 13

8 – 9 am	Continental Breakfast	CH Lobby
9 – 9:30 am	NYSMEA Annual Business Meeting	Duke Lecture Hall, CH
9:45-10:45 am	Keynote Speaker: Dr. John Tanacredi, Dowling College: <i>A Long Island Coastal Catharsis: Looking at Coastal Environmental Issues Toward 2020</i>	Duke Lecture Hall, CH
11:00-1:00 pm	Lunch on Your Own	

Sunday Field Trips: Educational Adventures

Driving Directions available at registration desk

Until 5 pm	Free Admission to Atlantis Marine World Just show conference nametag	Riverhead www.atlantismarineworld.com/ 631-208-9200
3 pm – 4 pm	Riverhead Foundation Free behind-the-scenes tour Sign-up at registration desk	Riverhead www.riverheadfoundation.org/ 631-369-9840
12 pm - 4 pm	Shinnecock Nation Cultural Center and Museum (\$5/\$3 seniors)	www.shinnecockmuseum.org Only 5 blocks east of the college!
Until 6 pm	Cold Spring Harbor Fish Hatchery (\$4 for conference registrants)	Cold Spring Harbor www.cshfha.org/ 516-692-6768
Until 4 pm	Quogue Wildlife Refuge (free)	Quogue

		www.quoguewildliferefuge.com/ 631-653-4771
1 pm - 5 pm 2 pm	Whaling Museum (\$5/\$4 seniors) Director's Tour: Orphans in the Attic (Objects that cannot be put on display due to limited exhibition space)	Sag Harbor www.sagharborwhalingmuseum.org/ 631-725-0770
Until 5 pm	Cradle of Aviation (\$9) IMAX: "Under the Sea" (\$8.50) "Space," "Aerospace," "Firefighters" Museums before/after IMAX viewing	Garden City www.cradleofaviation.org/ 516-572-4111
Hamptons on Your Own	Town or Beach	Enjoy!

Welcome to the 2010 NYSMEA Conference!

Every day, I am reminded of the importance of our mission as marine educators. As the terrible disaster in the Gulf continues to unfold, "Changing Landscapes" does not even begin to describe the devastation that marine habitats such as wetlands, barrier beaches, and surface waters will endure. It becomes clearer that we must educate our students and the public about the critical role of our one ocean, and the importance of protecting it.

While the images of devastation are crippling, the attitudes of our students are inspiring. It is amazing to hear of local school children raising money and gathering supplies to send to the Gulf States for cleanup efforts. Our students are asking important questions and are adamant about preventing such catastrophes in the future. It is our job to channel these energies and to continue to teach and inspire tomorrow's leaders. By continuing our *own* learning through NYSMEA, we are poised to excite and support our learners as they work to protect our planet's most dominant feature.

After this great weekend, I hope you will all become more involved in *your* organization by attending meetings and events, actively serving on committees, and contributing to our website. Together, we can change the landscape of

marine education.

Sincerely,
Meg

Meghan Marrero, Ed.D.
President
New York State Marine Education Association
president@nysmea.org

Keynote Speakers (listed alphabetically)

Chris La Porta

New York's Artificial Reef Program: The Benefits of Aquatic Recycling

Chris is a native Long Islander who spent his early days exploring the waterways of Long Island. From this love of local waters came the pursuit and completion of a Bachelor of Science degree in Marine Science from Southampton College of Long Island University and a Master of Science in Zoology from C.W. Post College of Long Island University.

After college Chris worked in the Natural Sciences Department of the New York Institute of Technology in Old Westbury before taking a position in the Marine Sciences Research Center at SUNY Stony Brook. Chris currently works as a Marine Biologist for the New York State Department of Environmental Conservation Bureau of Marine Resources where he has been for over two decades. At NYSDEC he started in the Shellfish Land Certification Unit and currently works in the Marine Fishing Access Unit where he coordinates marine access issues and the New York State Marine Artificial Reef Program.

Chris enjoys scuba diving, fishing, photography (both terrestrial and aquatic) and travel among other outdoor activities. In addition to his native New York, he has explored the waters of Florida, Hawaii, Jamaica, Massachusetts, North Carolina, St. Maarten and the Virgin Islands.

The NYSDEC Marine Artificial Reef Program has practiced habitat enhancement in New York's Marine and Coastal District for over 30 years. The Reef Program utilizes available "materials of opportunity" to enhance the local marine habitat for a myriad of marine organisms that both inhabit and visit New York's Coastal District. Artificial reefs also provide benefits through additional fishing and diving opportunities.

Paul Mankiewicz, *A Reservoir & Resource Beneath Us: How Groundwater Can Work to Filter Runoff, Capture and Store Carbon, and Cool Cities and the Biosphere*

About a third of the water falling on the land enters groundwater. Plant roots follow this flow downward, powering the green plants and all the living beings that depend on them along the way. Movement of the water table replenishes lakes, streams, and rivers. Water flows from soil surface to tumbling brooks by threading its way along linear miles of fine roots, billions of

microbes, and across multiple acres of clay, silt and/or sandy surfaces. This discussion will explore the conceptual challenges and learning opportunities at this rich intersection of plant and microbial ecology, geochemistry, soil science and hydrology.

Suzanne and Glenn Rankin, *Film: Colors of the Sea*

Many people think they must travel far away to some exotic island to find colorful marine life, such as the coral reefs that fringe volcanic islands. While tropical vacations are exciting, we have found our own marine life off the coast of Long Island to be just as interesting and possibly more fascinating. Our cool, nutrient rich water provides the right environmental conditions which support an abundance of life. Join us as we swim throughout the eelgrass beds in our protected bays, a rock jetty at Fire Island Inlet, and several deep sea shipwrecks. We will visit over one hundred species of marine organisms and see how they are adapted to a variety of habitats. Through the use of underwater videography, all can comfortably explore the temperate waters of our northeast coast, which is filled with both beauty and biodiversity.

Glenn Rankin began his career as a Navy SCUBA diver and served as ship's sonar man aboard the nuclear submarine U.S.S. Alexander Hamilton. He received his Masters Degree in Musical Composition and has been teaching in the Bethpage School District for the past 27 years, where he conducts orchestra, band, and musical theater. His expertise is in violin, piano, and guitar. Glenn has been diving off the coast of Long Island for the past thirty years. He combines his skills in underwater videography and computer editing to present marine life in their natural habitats, while enhancing their beauty with music. The artistry of Glenn's productions, along with his original music scores, depicts his unique combination of talents.

Suzanne Rankin earned her Masters degree in Biology and Education and holds additional teaching certifications in Chemistry, Earth Science, and Coaching. She has been an educator for 24 years at Bethpage High School, where she teaches both College and Regents level Biology. She is nationally-ranked as an Advanced Placement Biology Teacher and a Tandy Award Scholar. Suzanne has also taught Environmental Science, Ecology, Oceanography, Physical Science and Health. She was a CPR Instructor and the Varsity Coach for both the Girl's Gymnastics and Diving Teams.

Together, Suzanne and Glenn have been capturing our ocean's biodiversity on video for the past 23 years. Their passion to conserve our marine environment has inspired them to create the award winning presentation, "Colors of the Sea," which explores the marine life off the coast of Long Island.

www.skimmeroutdoors.com/underwater

Dr. Eric Sanderson

A Look at the Ecological Transformation of Manhattan During the Past 400 Years

Dr. Eric W. Sanderson is a Senior Conservation Ecologist at the Wildlife Conservation Society (WCS). He works to find sustainable relationships between people and the rest of nature at all scales. Sanderson received his Ph.D. in ecology from the University of California, Davis, in 1998, and the same year founded the "Landscape Ecology and Geographic Analysis" program at the WCS based in New York. He is an expert in conservation planning for species and landscapes. Recently he directed the Mannahatta Project, an effort to reconstruct the original ecology of Manhattan Island at the time of European discovery. In 2009 Abrams published his book, "Mannahatta: A Natural History of New York City," illustrated by Markley Boyer. From May 20 - October 12, 2009, he curated an exhibition entitled "Mannahatta/Manhattan: A Natural History of New York" at the Museum of the City of New York. He also led the team which created a website that allows users to explore Mannahatta in comparison to Manhattan today. This material is available (themannahattaproject.org) with a prepared a set of curricula which elementary and secondary school teachers can use in the classroom to re-imagine New York's environment - past, present and future. In 2009 Dr. Sanderson was the New York Prize Fellow in Sustainable Cities and Social Science Research at the Van Alen Institute, in collaboration with the Social Science Research Council. His work has been featured in the New York Times, National Geographic Magazine (cover September 2009 issue), CNN, NPR, and The New Yorker.

Dr. John Tanacredi

Our Coastal Catharsis: Looking At Our Coastal Environmental Issues to 2020

Dr. John T. Tanacredi, Professor of Earth and Marine Sciences at Dowling College, was recently named the Director of Dowling's CEECOM (Center for Estuarine, Environmental and Coastal Oceans Monitoring) facility in West Sayville. This new coastal research and monitoring center has attracted the National Weather Service, CRESLI, The Town of Islip, New York State Department of Environmental Conservation, U.S. Fish and Wildlife Service, Fordham University, Baruch College of CUNY and AREAC at Brooklyn College of CUNY as initial cooperators. Dr. Tanacredi has presented several talks on his horseshoe crab inventory on Long Island, and in November, 2009 he published his fifth book (Springer Publishers, Ltd.), "The

Biology and Conservation of Horseshoe Crabs", the result of the first international conference on Horseshoe Crab research hosted at Dowling College in 2007.

Workshop Descriptions (1=Session 1, 2=Session 2)

Peg Dickerson, *Green Teaching* (1)

From using worn out kitchen towels in the classroom instead of paper towels to starting a recycling program school wide to piloting a greenroof, I've incorporated "green teaching" into my classroom for 30 years. Teaching students K-6, I started as a classroom teacher, then became the elementary science coordinator and teacher for the last 8 years of my career. My science teaching blends NYS Standards from all disciplines, relating writing and grammar to scientific recording and reporting, math and history and often communications and technology. This workshop will discuss how to develop units involving environmental issues (sample issues will be on promoting pump out boats to starting a greenroof section at your school). The main components of these units will be the students involvement in local government and their use of communications skills.

Yumiko Iwasaki, *What is a Trilobite?* (2)

Trilobites are an extinct marine arthropod which thrived in the Paleozoic (540 – 246 million years ago). They were abundant and can now be found in any fossiliferous Paleozoic rock on all the continents. You will be shown how to recognize a trilobite in a rock, and its similarity and differences with its closely related group, represented by modern horseshoe crabs, will be demonstrated. Participants will handle actual specimens from New York State and from Bolivia for species identification.

Meghan Marrero, *Making Connections to Marine Debris* (2)

Marine debris is a ubiquitous problem that is finally garnering media attention. As discussions of the Pacific and Atlantic garbage patches become more widespread, it is important to consider the effects of marine debris on organisms. While few species are immune to the effects of plastics and other debris, seabirds are at particular risk. In the Pacific, adult albatross often scoop up plastics with their food, and unknowingly feed them to their chicks. In this session, dissect albatross boluses regurgitated by chicks on Midway Atoll, and discover for yourself the types of debris affecting these animals. The dissection will be photographed (and pictures shared) so that you may use this experience to educate others about marine debris. In addition, gain access to ready-to-use activities that allow individuals to examine debris in their own communities and

make connections to pollution of our local waterways.

Bill Nelson, *Introduction to Aquatic Nuisance Species (1)*

Bill Nelson is a Marine Environmental Education Specialist for the USCG and USCG Auxiliary. As part of his role as a Staff Officer for Marine Safety and Environmental Protection, Bill forwards the USCG's Sea Partners Environmental Education and Outreach message, which includes background on Aquatic Nuisance Species and how to prevent them from spreading.

Bill will have great handouts for up to 30 people and also provide "go to" resources for teachers to use in their classroom.

Sarah Richards, Ariana Rickard, Barbara Cohen, and Bernie Wides, *Using the Phytoplankton Monitoring Network as a Teaching Tool (2)*

Sarah Richards, a Marine Biology teacher from Saint Ann's School in Brooklyn, and 3 instructors from the American Museum of Natural History, will talk about how to get involved with the Phytoplankton Monitoring Network. The PMN is a volunteer-based program sponsored by NOAA, which trains people from all walks of life to collect, identify, and count species of diatoms and dinoflagellates in their local waters. Ariana, Barbara and Bernie will discuss how the collecting is done, and workshop attendees will have the opportunity to view samples of freshly-collected water from the Stony Brook Southampton College Marine Station. Sarah will talk about how her students used the PMN to fulfill an independent science research requirement, and will discuss how the PMN can be used in a variety of classroom projects.

Julika Wocial, *Connecting Classrooms and the Ocean: An After-School Marine Science Program Experience. Find Out How Your School Can Get Involved! (1)*

The Riverhead Foundation for Marine Research and Preservation is a not for profit organization that rescues, rehabilitates and releases marine mammals and sea turtles. This workshop will introduce the after-school marine science club that the Riverhead Foundation implemented in two local elementary schools. The program is geared towards elementary school children and introduces all aspects of marine biology and oceanography to the students. From hands-on experiments to beach field trips and seal releases - this is a one of a kind experience for any child! It is easy to get your school and your students involved and you can find out how by coming to our workshop!

Classes

Larissa Graham, *Project Wet Workshop (Friday, 1-4 pm)*

The mission of Project WET is to reach children, parents, educators, and communities of the world with water education. We invite you to join us in educating children about the most precious resource on the planet – water. This training workshop will show you how to incorporate Project WET curriculum into your classroom and provide you with the Curriculum Guide and other resources to do so! This workshop is limited to 25 participants, so please email Larissa at LJG85@cornell.edu if you would like to attend. For more information about Project WET, please visit: <http://projectwet.org>.

Dr. Merryl Kafka, *Get Energy Smart with NYSERDA (Fri., 1-3 pm)* (NY State Energy Research and Development Authority)

Join Energy Educators in this interactive workshop to explore energy forms and sources, and its relationship to our living environment. Fun multidisciplinary classroom activities and handouts will demonstrate various concepts such as renewable and non-renewable sources, energy mining, global climate change, and actions we can take to address the energy challenges we face.

Bill Monahan, *Building Underwater Remotely Operated Vehicles (ROVs) with Students (Saturday, 2:30-4:30 pm)*

Bill Monahan, Director of the Nassau BOCES program at Caumsett State Park on the north shore of Long Island, will show how to build your own remotely operated vehicle! This will be an introduction to the excitement and technology of underwater exploration. Underwater robots are the future of deep sea exploration and the future is now! Join us for this two hour, hands - on, workshop where you and your team will design and build a working ROV. Then test your design by driving your vehicle underwater to recover broken pipe (½" PVC) from the sea floor (pool). This program was designed by the Marine Advanced Technology Education Center in Monterey California and is being used along with an annual competition to excite students of all ages to a growing new field of research.

NYSMEA Officers 2009-2010

Dr. Meghan Marrero, President
Keira Lam, Secretary
Sarah Richards, Treasurer
Vice-President Elementary, Andrea Oliver
Vice-President Secondary, Blanca Ching
Vice-President College, Pamela Lynch

Thanks to the 2010 Conference Committee!

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Lisa Breslof
Blanca Ching
Eileen Dugan
Larissa Graham
Merryl Kafka
Eileen & Marty Kutikoff
Pamela Lynch
* Sarah Richards
Lou and Flo Siegel
Audrey Schuller

*Chair

And Thanks to the Staff of Stony Brook Southampton!

Mary Ann Campisi
Ginny Clancy
Joe Glorioso
Donna Klingel
Laura Lyons
Sherrille Shabazz

And a special thanks to Richard McIntyre, Director of the Marine Science Station and also Richard Vaudrey (cello) and Mario Gotoh (violin), who provided the music at Friday evening's reception.

NYSMEA Awards

Congratulations, 2010 Awardees!

Matthew Fontaine Maury Award

Presented to a member or non-member who has made a major contribution to any field related to marine endeavors, either in the sciences, education, and research, and social or artistic ventures.

Joe Yaiullo, Cofounder and Curator of Atlantis Marine World

Herman Melville Literary Award

Presented to a member or non-member who has made a major contribution to the world of maritime literature and/or art.

Ann McGovern, Children's Book Author

Kingham Service Award

Presented to a member with at least three years of outstanding participation in the Association and who has contributed to the needs of the organization.

Robert Cummings, Senior Instructor, NY Aquarium

Bernie Wides, Volunteer, American Museum of Natural History and Radio Host, Heritage Radio Network

SCONYC Jerry Resnick Memorial Presidential Awards

Presented by individual member associations of the Science Council of New York City to an individual or organization that has contributed to the goals of the association as exemplified by SCONYC's second president.

Larissa Graham, Long Island Sound Outreach Coordinator, NY Sea Grant

Past NYSMEA Award Recipients

Founder's Award 2009

Robert Abrams and Lou Siegel

Meritorious Service Award 2009

Merryl Kafka and Ed Wilensky

Matthew Fontaine Maury Award

Ross Nigrelli, Frank Braynard, Steve Schneider, Anita Freudenthal, James Goetz, Jerry Schubel, Barbara Dexter, Steven Engelbright, Robert D. Abrams, Ellie Fries, Lou Siegel, John Loret, Don Riepe, Alan Ascher, Sidney Horenstein and Al Siegel

Herman Melville Literary Award

Maxwell C. Wheat, Richard McDermott, Eugene Kaplan, John Christophe Fine, Matthew Lerman, Katherine A. Kirkpatrick, Carl Safina, Merryl Kafka/Sarah Gruber/Arlene De Strulle, David Helvarg, Alexandra Mancuso, and Brianina Lind

Kinghan Service Award

Gene Kinghan, Al Siegel, Lou Siegel, Walter Smith, Robert Jaeger, Karen Hensel, Alan Ascher, Merryl Kafka, Maryanne Cicchillo, Marilyn Hoffman, Elaine Dolgins Weiss, Addie Quinn, Eilene Evans, Joseph M. Varon, Eleanor Fries, Barbara Cohen, Mickey Cohen, Lorna D. Monterose, Nancy Maia, John Evans, Margaret Wilson, Michael Sandlofer, Susan Chiesa, Joel Teret, Doreen Bader, Dennis Bader, John Loret, Ben Kwaitkowski, George Linzee Anthony DiLernia, Leticia Paler, Linda Kallinrude, Bunny Nadelman, Martin Kutikoff, Eileen Kutikoff, Kimberly Zimmer, Hugo Freudenthal, James Browne, Thomas F. Greene, Sarah Richards, Lisa Breslof, Gail David, Blanca Ching, Eileen Dugan, Karla Ferraro, Pamela Lynch, Ed Wilensky, Anne Bicker, Maritza Macdonald, Kiera Lam, and Meghan Merraro

SCONYC Jerry Resnick Memorial Presidential Awards

Robert Jaeger, Robert Abrams, John Loret, Lou Siegel, Richard McDermott, Al Siegel, Joseph Varon, Maxwell Cohen, Eleanor Fries, Merryl Kafka, Joel Teret, Eilene Evans, Dennis Bader, Doreen Bader, Hugo Freudenthal, Anita Freudenthal, Matthew Lerman, Anthony Dilernia, Bruce Carlsten, Sandy Shumway, Anne Bicker, Lou Siegel, Eileen Kutikoff, Martin Kutikoff, Sarah Richards, Lisa Milke, Lisa Breslof, Robert Cummings, Jr. and Blanca Ching

Exhibitors

Atlantis Marine World

Dowling College

Education Update

Heritage Radio Network with Bernie Wides

NYSERDA (New York State Energy Research and Development Authority)

NYS Sea Grant

Riverhead Foundation for Marine Research and Preservation

Seanet: Seabird Ecological Assessment Network, Margaret Hart

sSelf water monitoring - ERM Foundation

Steve Thurston "Fish Prints"

Talking Science with Annmarie Cunningham

The Open Book Bookstore, 1 Glovers Lane, Westhampton, Terry Lucas

Notes

Notes

***Thank You to Our Auction and Conference Folder Packet Donors as Well
as People Who Have Provided Special Services for this Conference***

(and to Eileen Dugan, who collected just about all of the donations!)

American Museum of Natural History
Anne Bicker
Atlantis Marine World
Audrey Schuller
Blue Ocean Institute
Carol Butler – Rutgers University Press
Chris Paparo
Clemente’s Crab House Restaurant – Sheepshead Bay
Cornell Cooperative Extension Sport Fishing Education Center
Deborah Cramer, Smithsonian Institute
Dr. Carl Safina – Blue Ocean Institute
Dr. Peter Rona - Rutgers University
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