

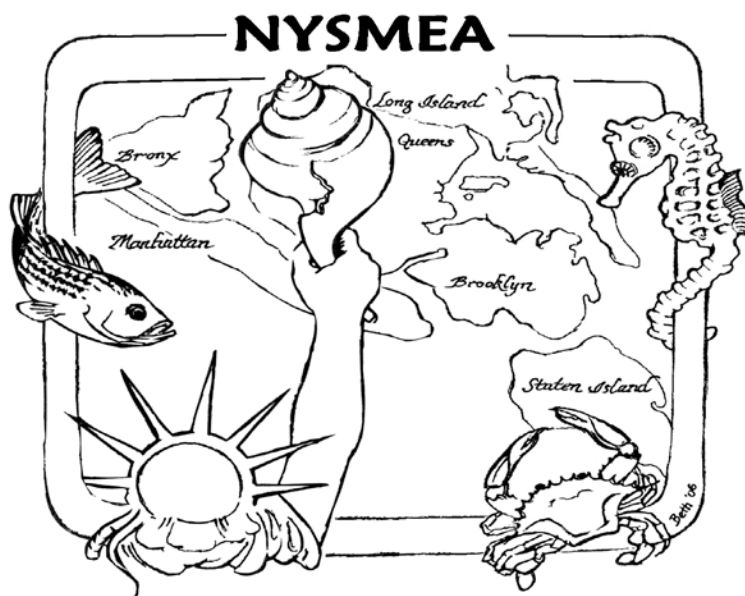


**The New York State Marine  
Education Association**

*Presents*

**The 34<sup>th</sup> Annual Conference  
June 9, 2012**

**“Exploration, Conservation and Education”**



**NYC - A City of Islands**

New York State Marine Education Association

**SUNY Maritime College  
Bronx, NY**

8:00 - 9:00 am	Continental Breakfast	Lobby of Marvin-Tode Hall
8:00 am - 12:40 pm	Registration, Exhibits, and Silent Auction	
9:00 - 9:15 am	Welcome Remarks	Lecture Hall, Marvin-Tode
9:15 - 10:15 am	<b>Keynote Speaker:</b> Jesse Ausubel "Every Fish in the Sea: Findings of the First Census of Marine Life"	
10:15 - 10:40 am	Annual Business Meeting and Awards	
10:45 - 11:40 am	<b>Session 1:</b>	
	Seals and Whales and Others, OH MY Dr. Artie Kopelman	1-61
	Horseshoe Crabs: Past, Present and Future Dr. John Tanacredi	1-63
	Fish Drawing for Fun and Profit (and What Sharks Mean to Me) Book Signing at 11:30 Richard Ellis	1-24
11:45 am - 12:40 pm	<b>Session 2:</b>	
	A Brief History of Oceanology Bill Monahan	1-24
	Ocean Conservation: The Future of Fish, Sharks and Fishing in America's Oceans Jamie Pollack	1-63
	Teaching About New York Harbor: Shaping the Harbor Literacy Points Betsy Ukeritis	1-61
1:00 - 2:00 pm	Lunch	TIV, McMurray Hall
2:30 - 5:15 pm	<b>Field Trips</b>	Meet Leaders in TIV
	***Guided Tour of the Maritime Industry Museum at Fort Schuyler (begins at 2 pm)	
	Kayaking Western Long Island Sound	
	Biological and Chemical Sampling on the Campus Dock and Beach	
	Walking the Bronx River in Search of Fish	
5 :30 - 6:30 pm	<b>Keynote Speaker:</b> Dr. Peter Rona, "Exploration of the Hudson Submarine Canyon and Beyond"	Lecture Hall, Marvin-Tode

7:00 - 8:00 pm	Lobster Dinner	TIV, McMurray Hall
8:00 - 9:00 pm	Live Auction	

## Welcome to the 2012 NYSMEA Conference!

Dear NYSMEAns,

Welcome to NYSMEA's 34<sup>th</sup> Annual Conference. This year's theme of exploration is both important and timely. The Essential Principles of Ocean Literacy remind us that most of the ocean is still unexplored. From icy polar seas to vibrant coral reefs, the surface to the depths, and everything in between, the ocean represents our final frontier. It is a place to discover new species, uncover new features, examine changing chemistry, and design new ways to learn more.

Our students are poised to explore the ocean and take our knowledge to the next level. It is up to us to engage them in marine studies, and to inspire them to pursue careers in the ocean-related science, technology, engineering and mathematics (STEM) fields. I hope that you will take what you learn today, whether from the organizations featured in the conference packets, our keynote speakers, workshop presenters, field trips, sponsors, or other participants, and apply what you've learned to the work you do every day.

Have a great conference, and I hope to see you at other NYSMEA events coming up soon.

Sincerely,  
Meg

**Meghan Marrero, Ed.D.**  
**President**  
**New York State Marine Education Association**  
[president@nysmea.org](mailto:president@nysmea.org)

Have you visited the NYSMEA web site lately? If not, you're missing out! The web site is updated monthly with job, volunteer, and internship opportunities, as well as upcoming professional development activities, scholarships and grants and so much more! Click around today: [www.NYSMEA.org](http://www.NYSMEA.org)

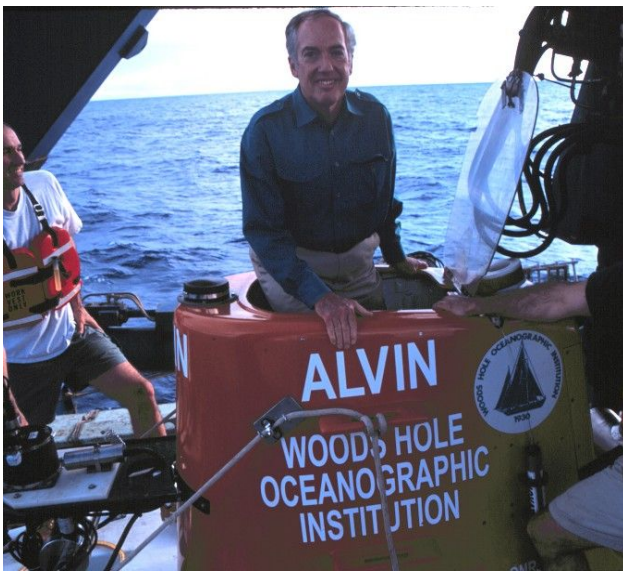
## Keynote Speakers

### Morning:

Jesse H. Ausubel

*Every Fish in the Sea: Findings of the First Census of Marine Life*

The recently completed first Census of Marine Life was a cooperative international effort to assess and explain the diversity, distribution, and abundance of marine life. Program co-founder Jesse H. Ausubel will report on the most comprehensive answers yet to one of humanity's ancient questions – “what lives in the sea?” The Census combined information collected over centuries with data obtained from 540 expeditions during the decade-long effort to create a roll call of species globally and in 25 biologically representative regions – from the Antarctic through temperate and tropical seas to the Arctic. The Census helped set a baseline for measuring future changes in Earth's oceans. Japan awarded the Census the 2011 International Cosmos Prize for the program's contributions to science and conservation.



### Evening:

Dr. Peter Rona

*Exploration of Hudson*

*Submarine Canyon and Beyond*

The Hudson Submarine Canyon, with walls almost as high as the Grand Canyon, lies on the continental margin at the doorstep of New York City. Join Dr. Peter Rona on a spectacularly illustrated first-hand account of his ongoing collaborative exploration of Hudson Canyon and the discovery of gas hydrates which contribute to the fertility of the canyon. This exploration will be placed in perspective of cutting edge discoveries in the ocean and in space.

# Workshop Descriptions

## Session 1: 10:45 - 11:40 am

### Seals and Whales and Others, OH MY (Room 1-61)

Dr. Artie Kopelman

President, Coastal Research and Education Society of Long Island

Who are the marine mammals of New York? Get an introduction to the diversity of marine mammals in New York State and an overview of the recent work on harbor seal photo-identification.

### Horseshoe Crabs: Past, Present and Future (Room 1-63)

Dr. John Tanacredi

Chairman, Department of Earth and Marine Sciences, Dowling College

Discuss the trends in horseshoe crab habitats and populations on Long Island as a result of the 11-year Dowling College Long Island HSC Inventory and the global connection of conservation efforts with eight Asian nations and the IUCN protection status.

### Fish Drawing for Fun and Profit (and What Sharks Mean to Me)

(Room 1-24)

Richard Ellis

Research Associate, American Museum of Natural History

Richard Ellis has been illustrating books on marine natural history (he has written more than twenty), with his own paintings and drawings for more than 40 years. He will review many of his best-known illustrations of whales, dolphins, sharks, fishes, birds, and cephalopods to point out the importance of picturing the animal in understanding how best to address its future in the ocean.



## Workshop Descriptions

### Session 2: 11:45 am - 12:40 pm

#### A Brief History of Oceanology (Room 1-24)

Bill Monahan

Program Specialist, Nassau BOCES

This is a powerpoint presentation covering the last 3,500 years of ocean exploration and discovery. From the Polynesians to the Phoenicians, from Vikings to vents (hydrothermal) we've come a long way, baby. The development of the tools and technology, as well as the men and women that brought us to our current understanding of our ocean world, will be discussed.

#### Ocean Conservation: The Future of Fish, Sharks and Fishing in America's Oceans (Room 1-63)

Jamie Pollack

Pew Environment Group-NY Rep/Shark Angels-Director

Come hear Jamie Pollack, Shark Angel, diver, and conservationist speak about what's the latest in fishery management and what we are doing to help fishermen and the fishing industry, how you can help protect bluefin tuna, turtles, marlin and sharks in the Gulf of Mexico and what's going on with shark conservation these days. Play some shark trivia and win some cool prizes.

#### Teaching About New York Harbor: Shaping the Harbor Literacy Points (Room 1-61)

Betsy Ukeritis

Regional Environmental Educator, NYS Department of Environmental Conservation

The Harbor Education Task Force (a group of over 50 educators and educational institutions, coordinated through the Metropolitan Waterfront Alliance) has worked over the past year in shaping the Harbor Literacy Points, an important document that outlines five key concepts about the harbor: water quality, watersheds and our relationships to them,



properties of estuaries, marine ecosystems, and the history of the harbor. In this workshop we will discuss the Harbor Literacy Points and brainstorm ideas for how to finalize and disseminate the document with teachers. The workshop will foster discussion about how to make this document most useful for teachers.

## **Field Trips: 2:30 – 5:15 pm**

### **Guided Tour of the Maritime Industry Museum at Fort Schuyler**

\*\*\* Note: Leaves at 2 pm

Leader: Eileen Dugan

Join Executive Director Captain Eric Johansson, for a 1 1/2 hour walk-through guided tour of the Maritime Industry Museum. He will review the history of Fort Schuyler and the maritime industry, as depicted in one of the largest collections of seafaring materials in the nation. The museum also houses exhibits on the history of the school and its training ships. The tour will cover two floors of exhibits as we stroll through the passage of time and enjoy displays of sailing vessels, historic artifacts, nautical photographs and prints, paintings, tools, navigational instruments, ship building technology, and much more. The museum is funded, staffed, operated, and maintained solely by volunteers, and everything in the museum is a gift or donation.

### **Kayaking Western Long Island Sound**

Leader: Anne Bicker

The kayak trip will launch from the SUNY Maritime College. We have room for 16 people, some in singles and some in doubles. We will spend a little time near the launch spot, then go out for a paddle around the maritime center. Please bring a change of shorts as these kayaks are wet. If you have binoculars or a water resistant camera, you might want to bring them. If you have your own kayak you may launch with us.

### **Biological and Chemical Sampling on the Campus Dock and Beach**

Leaders: Lou Siegel and Tom Greene

Sample the water for various chemical, physical and biological parameters used to determine the health of a water body. You will collect microscopic plankton and search for mating horseshoe crabs using variety of nets and sampling procedures. Then move inside to examine your samples and evaluate the health of the waterway. By the end of your field and laboratory investigations you will compare your results with the EPA standards to see if the water is safe enough for you and other creatures to enjoy.

### **Walking the Bronx River in Search of Fish**

Leader: Sarah Richards

It is estimated that wild fish supply 25% of the world's protein, and yet the state of the world's fisheries is becoming increasingly precarious. Commercial fisheries on the industrial scale threaten to plunder the ocean through whole-scale depletion of many of the ocean's finny denizens, whose absence collectively impacts the ecological functioning of the oceans' ecosystems as a whole. In addition, migratory fish (also

known as diadromous fish), which maintain a dual habitat usage much like salmon, are also declining worldwide from a synergistic threat in the form of habitat degradation, by-catch, over-exploitation, etc. What is the impact of this activity on the world's fisheries, and what is the threat posed by a burgeoning human population, and a commensurate growing demand for seafood? What about the expanding and rapid development of estuaries and coastlines? Join biologist George Jackman and hear why this retired police officer has dedicated his life to marine biology. He will discuss his research topics at Queens College and their relationship to the larger issues at an onsite location on the Bronx River. This talk will entail very limited physical activity, and will use the location mostly as a backdrop to highlight this discussion. We will carpool to River Park, located at 108<sup>th</sup> St. and Boston Road, near the Bronx Zoo.

## **NYSMEA Officers 2011-2012**

Dr. Meghan Marrero, President  
Keira Lam, Secretary  
Sarah Richards, Treasurer  
Andrea Oliver, Vice-President Elementary  
Blanca Ching, Vice-President Secondary  
Dale Stanley, Vice-President College  
Dr. Merryl Kafka, Vice-President Informal

## **Thanks to the 2012 Conference Committee!**

Lisa Breslof  
Blanca Ching  
Bob Cummings  
Eileen Dugan  
Larissa Graham  
Tom Greene  
Merryl Kafka  
Eileen & Marty Kutikoff  
Meghan Marrero  
\* Sarah Richards  
Lou Siegel

\*Chair

**And Thanks to the Staff of SUNY Maritime,  
Especially Rob Crafa and Nancy Krueger!**

## **NYSMEA Awards**

**Congratulations, 2012 Awardees!**

### **Founder's Award**

Presented to one of the original founders of the New York State Marine Education Association who has made a life-long commitment to advancing informal marine science education.

**Al Siegel**

### **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.

**Dr. Artie Kopelman**

### **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.

**Richard Ellis**

### **Kinghan 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.

**Larissa Graham**

**David Stolarz**

### **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.

**Nordica Holochuk**

## **Past NYSMEA Award Recipients**

### **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, Al Siegel, Joseph Yaiullo, and Barbara Cohen

### **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, Brianina Lind, and Ann McGovern

### **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, Keira Lam, Meghan Marrero, Doreen Williamson, Kevin Williamson, and Richard McIntyre

### **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., Blanca Ching, Larissa Graham, and Gene Ritter

## **Exhibitors**

American Society for Photogrammetry and Remote Sensing  
Beneath the Sea – Marine Careers  
Blue Ocean Institute  
Jan Christopher Porinchak, NatureWorks Scientific Illustration  
Pew Environmental Group

## **Auction Item Donors**

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New York Aquarium, WCS  
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Richard Ellis  
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Thanks also to those people who brought in auction items today!

## **Thank you to our sponsors for their generous donations:**

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The Hudson River Foundation [www.hudsonriver.org](http://www.hudsonriver.org)

## **Thank You to our folder packet donors, and those that have provided special services to the conference:**

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

Amy Gulick

Atlantis Long Island Aquarium & Exhibition Center

Blue Ocean Institute

Coastal Research & Education Society of Long Island

Coastal Studies for Girls

Ducks Unlimited

Haskell's Bait & Tackle

Judith S. Weis - Rutgers University Press

Long Island Maritime Museum

Long Island National Wildlife Refuge Complex

Long Island Sound Study

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National Marine Educators Association

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New York State Outdoor Education Association

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