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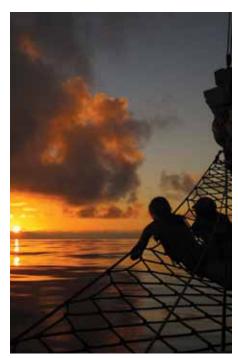




SEA will launch a new program, "The Global Ocean" (GO), in the fall of 2014 or both ships. Developed by SEA faculty last spring, GO will offer a broader spectrum of course choices, expand the range of our cruise tracks, and tie us to international

Our curriculum begins by recognizing that human actions have caused measurable changes in global oceans. (There is a broad movement to call the time in which we live the "Anthropocene Age," to acknowledge that human activities are now shaping the earth's environment in a way comparable to geological events of the past.) Certainly the rate at which resources are being extracted and pollutants are being added to oceans is having an impact on human health, on economic systems from local communities to international trade, and on cultural and social practices around the world. Many coastal communities are already struggling to cope with sea level rise, depleted fisheries, loss of habitat, and increased catastrophic storm effects.

continued



A Fall 2012 alumni photo contest submission from Heidi Hirsh, S-233, entitled Glassy Sunset at SEA.

Infrastructures built to accommodate industry and tourism are changing coastlines, often with limited planning to determine long-term environmental impacts.

To understand how such changes occur we need to look not only at how natural systems work, but also at the histories, cultures, and policies of people who live on coasts and islands in different regions. This requires a multi-disciplinary approach, drawing from the humanities, sciences, social sciences and arts. Our basic tool will be the Ocean Health Index (OHI), which was devised by a number of environmental organizations to measure human impacts on oceans. The OHI uses ten metrics that allow for comparison over time and between countries; they include biodiversity, pollution, carbon storage, coastal livelihoods & economies, fisheries, ocean products, tourism & recreation, and "sense of place"—which measures the cultural value of coastal areas and marine animals. SEA's experience and expertise are very well suited to explore these subjects with our students. Many of the topics have been particularly developed in other programs including Oceans & Climate, Marine Biodiversity and Conservation, Sustainability in Polynesian Cultures and Ecosystems (SPICE), and Colonization to Conservation in the Caribbean.

We are fortunate that among the developers of the OHI are many SEA friends. Steve Katona, W-17, Managing Director of the OHI, came to our campus in January to meet with ten of our faculty, plus Paul Joyce, David Bank, W-82 and Susan Humphris. Andy Rosenberg, W-7, and overseer, participated on Skype. (Andy is on the Lead Science Team and Steering Committee of the OHI.) We discussed ways not only to incorporate the OHI into our curriculum, but how we can contribute SEA data to the larger effort. Scott Doney, W-76, and trustee, who has worked on the OHI since its genesis, met with Paul and faculty members in September. Colleagues at the New England Aquarium, National Geographic and Conservation International, the principal organizations involved in the OHI, are potential collaborators on this project as well as other new programs currently being developed.



Above: Science at SEA student from C-241E is aloft on the Corwith Cramer. Below: A guest lecturer talks with students during Sustainability in Polynesian Cultures and Ecosystems S-239.





Above: SSV Corwith Cramer. Below: S-233 students in French Polynesia for Sustainability in Polynesian Cultures and Ecosystems, Spring 2011.



With GO, SEA will, for the first time, offer students a choice among courses, with electives in science, humanities and policy that will allow students to tailor their experience to their individual interests. Among the required core courses is a new class in leadership that acknowledges what SEA has done well for forty years. In addition to recognizing that watch standing on the ship provides an opportunity for students to gain increasing levels of responsibility, we will have a shore component that grounds the course in current academic theory about the qualities that make good leaders.

The Global Ocean is a natural evolution for SEA, growing not only out of our experience in the forefront of ocean-going programs, but in addressing one of the most important issues of our time, the impact of human actions on the environment. College students care deeply about this issue. In a poll of the class of 2011, students said the environment was their "number one social concern," and we hear it again and again from our own students.

As I write this, the Robert C. Seamans is anchored at Fatu Hiva, an island in the Marquesas archipelago of French Polynesia. It is a stunningly beautiful place, with high steep cliffs and deep green valleys. I am here with a SPICE class and our discussion of issues of sustainability with local people has demonstrated the level to which global environmental problems have reached even the most remote island locations. I am thinking ahead to the first GO class, which I will teach in the fall with Chuck Lea and Elliot Rappaport. Our cruise on the Corwith Cramer will take us from Barcelona through the Straits of Gibraltar to Madeira and the Canary Islands. The second and third times GO is offered will be in the waters of New Zealand.

As we extend our reach to new seas and new countries, our mission grows clearer. We are the leader in offering ship-based programs for college undergraduates looking to understand our changing global environment, and the logical starting place is "the global ocean."

Mary Malloy, Ph.D.
Professor of Maritime Studies
Director of the Global Ocean program

Our curriculum begins by recognizing that human actions have caused measurable changes in global oceans.

Tyson Bottenus, S-214 is happy to be aloft.



NEW DIRECTIONS A campaign for Sea Education Association

Beginning in June 2014, SEA will offer an exciting new suite of excellent academic SEA Semester programs that will appeal to a broader range and larger number of undergraduate students. Relative to our SEA Semester program offerings in the past, the new programs are characterized by:

- a greater number of programs with upper division coursework
- a broader offering of programs in multiple disciplines, including the humanities, social sciences and science
- elective course credit options
- more programs of shorter (5-week) duration
- a more expansive geographic area of operations
- and the incorporation of more exotic/appealing international ports of calls

The Global Ocean

In 2014 we will introduce our newest semester-length program: The Global Ocean (GO). (See feature article, page 1) Our curriculum will incorporate the metrics of the Ocean Health Index, a set of guidelines developed by several international environmental organizations to measure human impact on the ocean and coastal environments. We will study how environmental change impacts human health, economic systems and cultural practices.

To understand how such changes occur, students in the GO programs will look not only at how natural systems work, but also at the histories, cultures, and policies of people who live on coasts and islands in different regions of the world.

Explore. Dream. Discover.

Explore. SEA will begin exploring new international ports in 2014. The Atlantic cruise tracks will include a circumnavigation of the North Atlantic, with stops in North America, Western Europe, Atlantic Islands, and the Caribbean. In the Pacific, we will extend our cruises west and south, including transects through the large Marine Protected Areas in Hawaii, American Samoa, and the Phoenix and Line Islands. Some of our new destinations include:

- Cork, Ireland
- Lisbon, Portugal
- American Samoa
- Cadiz, Spain
- Fiji
- Phoenix Islands Protected Area
- Canary Islands
- New Zealand

Dream. Human actions have caused measurable changes in the global ocean. The rate at which resources are being

extracted and pollutants are being added is having an impact on human health, on economic systems at the global level, and on cultural practices at the local level and threatens to further degrade them. Many coastal communities are already struggling to cope with sea level rise, depleted fisheries, loss of habitat, and increased catastrophic storm effects.

SEA is committed to addressing the big questions about ocean health.

To understand how such changes occur we need to look at how natural systems

work, and at the histories, cultures, and policies of people who live on coasts and islands in different regions. Active involvement with diverse communities in various ports of call and a real-world view of ocean issues from the deck of the ship give a unique perspective on one of the most pressing issues of the twenty-first century.

Discover. In 2014, SEA is setting its sights beyond the horizon. Explore with us as we set sail east across the Atlantic. Be a part of our journey to better understand ocean health issues as we expand our presence in the South Pacific.

Campaign Objectives

The \$400,000 goal of this short-term campaign is to raise funds to support planning and preparation needs for the implementation of The Global Ocean and other new programs, and to support sailing to new destinations in both the Pacific and Atlantic Oceans by June 30, 2014.

Over \$250,000 has so far been raised towards this goal. We invite you to come along with us on this adventure and **help us to make the next generation of SEA Semester a reality for future SEA students.** Your generous gift will have a transformative impact on our students, as they experience first hand the challenges facing the global ocean.

Gifts to New Directions will be credited as a Capital Campaign gift, and is separate from a gift to the Annual Fund. SEA is grateful for support of both appeals during this very important year. Your gift is critical to the future of SEA! Please return the enclosed remittance envelope, or give online at www.sea.edu/give.



PASSAGES



SEA Semester on Film

Both Warner Brothers and BBC World News are in production with projects that will give extraordinary visibility to SEA Semester.

SEA will figure prominently in the feature film *Dolphin Tale2* to be released in the fall. In it the main character, Sawyer, has grown up and is of college age. SEA's view book and other promotional materials are in the film as he is offered a full scholarship to SEA Semester. Filming is now complete and video footage from sea as well as SEA's homepage will be used in post-production as Sawyer researches his scholarship.

BBC World New was on campus in March to film for its program *Horizons*. Students from class S-252 will be featured in a two-minute segment that will reach 450 million viewers. The crew followed the class to Nuku Hiva for filming on the *Robert C. Seamans* in April. This episode will air in May and is available to 60 million households in the US on their cable network. Watch SEA's website, www.sea.edu, for information on the date of airing.



Top: A scene from Dolphin Tale2, a Warner Brothers feature film to be released in Fall 2014. Above: BBC World News/Horizons films S-252's nautical science class.



Summer High School Programs

Beginning in Summer 2014, SEA will be offering a new shore-based high school program at our Woods Hole campus!

SEASCape—SEA Science on the Cape—offers motivated high school students the opportunity to engage in hands-on, field-based studies of Cape Cod's natural environment. Academic coursework in oceanography (pictured above), maritime studies, and nautical science will be complemented by extracurricular activities including field trips to the Cape Cod National Seashore, New Bedford Whaling Museum, and New England Aquarium, and visits to various labs and research facilities. Teamwork and leadership training will round out the learning component of each program.

Two sessions are available in July and August. If you know of a high school student who may be interested, please direct them to http://www.sea.edu/high_school_programs or the SEA Office of Admissions for more information!

Ocean Sciences 2014

SEA faculty and alumni attending the 2014 Ocean Sciences Meeting in Honolulu in February gathered for a Meet and Greet. Over 40 people attended the event, hosted by Dr. Erik Zettler, Associate Dean of Institutional Relations and Research, Dr. Jeff Schell, Associate Professor of Oceanography, and Skye Moret-Ferguson, C-190, and Research Associate. Many members of the faculty gave presentations and posters on our programs and research collaborations.



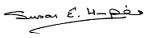
New Brag Boards and Banners for Ships

Early this year new banners and brag boards were purchased for the SSV *Corwith Cramer* and SSV *Robert C. Seamans* that will provide greater visibility for SEA Semester when the vessels are in port. A generous donor funded the purchase of these as a part of New Directions and our expanded marketing strategies. Traffic to the SEA website jumped significantly from Puerto Rico after the *Cramer* hung the banner while alongside at the cruise dock in San Juan. *See photo on page 17*.

2012-2013 **ANNUAL REPORT**



Susan E. Humphris, Chair Board of Trustees, March 2014



The winds of change have been blowing at SEA over the last year as the organization transforms itself to better align with the expectations of undergraduates seeking off-campus experiences. You will see from the articles in this issue of *Following SEA* that challenging new programs and far-flung destinations are scheduled to begin in summer 2014.

Since nearly 60% of U.S. undergraduates now study abroad during the summer as opposed to the academic year, SEA has recalibrated its short-term summer offerings to meet this growing demand. The SSV Corwith Cramer will make a month-long trans-Atlantic crossing ending in Cork, Ireland, investigating the shifting state of the North Atlantic marine ecosystem. The ensuing program will focus on the historic seaports of Western Europe and will end in Cadiz, Spain. The SSV Robert C. Seamans will conduct a service-based program based out of Hawaii Pacific University that will engage students in conservation, resource management, and sustainability issues facing the Hawaiian archipelago. This will be followed by a program in which students will work alongside scientists to document the ecosystem and oceanography of the relatively unexplored Phoenix Islands Protected Area—recently named a UNESCO Heritage Site.

Beginning in fall 2014, SEA's newest semester program, The Global Ocean, will explore the defining issue of the twenty-first century: the human impact on the environment. It will be offered in both the Atlantic and

Pacific Oceans. An interdisciplinary curriculum of three core courses plus a choice of two electives—a first for SEA—will allow students of any major to tailor coursework to fit individual academic requirements. Mary Malloy's article describes this program in more detail.

The Marine Biodiversity and Conservation semester continues to attract attention through its integration of scientific study of the Sargasso Sea with conservation planning for this area. Through funding from the Virginia Wellington Cabot Foundation, SEA brings experts in conservation science and policy to campus for a one-day symposium that serves as the capstone experience for the students. Find out more in Amy Siuda's Science Corner article.

Of course, such bold and far-reaching changes did not happen without the urging of Tim McGee and the Herculean efforts of the faculty and staff. As many of you know, Tim left SEA to return to Washington in July, and we have been fortunate to have Audrey Meyer and Peg Brandon step in to fill that role. I am absolutely delighted that, as we change course to head into more attractive waters, Peg Brandon will be at the helm.

Finally, I would like to extend my sincere thanks to all who have contributed to SEA over the last year. Your support is critical to enabling SEA to offer the best undergraduate ocean-based programs. I hope you will continue to support our new, exciting, and challenging voyages of exploration and please pass on the flyer on page 20 to a family member, neighbor, or friend who might be interested in joining us.

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We gratefully acknowledge the many alumni, parents, faculty, staff and friends who generously contributed their money, time and effort to Sea Education Association during the 2011-2012 fiscal year. Every effort has been made to list all contributions accurately from **July 1, 2012** through **June 30, 2013**. If, however, an error has been made, please accept our apologies and notify us.

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Peg Brandon W-48 is named the first alumna President

On March 10th SEA announced that Margaret (Peg) Brandon has been named SEA's first-ever alumna President. In making the announcement, Susan Humphris, Chair of SEA's Board of Trustees said, "With Peg's experience in both academia and in ship operations, and her deep knowledge and passion for SEA and its mission, she is ideally suited to lead SEA during this critical time in which SEA realigns itself to better meet the needs of today's undergraduate students. It is wonderful to have the first alumna of SEA as President." Peg Brandon succeeds Timothy McGee (2012-2013), John K. Bullard (2002-2012), Rafe Parker (1982-2002) and founder Corwith Cramer (1971-1982).



Amy Radar pho

An alumna of SEA Semester class W-48, Peg Brandon has extensive experience as a marine educator and leader both with Sea Education

Association and other notable institutions. She spent the previous eight years at Maine Maritime Academy where she held the position of Associate Professor of Marine Transportation. In 2010, Peg was awarded the Maine Maritime Academy Teaching Excellence Award. Prior to 2006, she worked as the Director of Continuing **Education for Massachusetts** Maritime Academy where she was responsible for professional training courses including Emergency Management Training. She has served as a member of SEA's faculty, teaching Nautical Science and serving as Captain on numerous SEA Semester voyages from 1986-2002, and also as SEA's Director of Marine Operations from 1998 through 2002. Peg has been a member of SEA's Overseers for many years, and stepped down from her position as a Trustee to act as Interim President for SEA in 2013.

Peg has a Master of Marine Affairs degree from the University of Rhode Island and holds a US Coast Guard Merchant Marine license as Master of Vessels up to 1600 GT on all Oceans. She is a recognized maritime leader whose strengths are in leading complex operations

on a global scale and building multidisciplinary teams that identify and focus on common goals. She is deeply committed to educating future decision-makers about global ocean issues and challenges, and building their skills in leadership and critical thinking.

Citing her long history with the organization, Brandon said, "Beginning with my SEA Semester experience as a student, my career has been shaped by SEA's mission of creating ocean scholars, stewards and leaders. I look forward to now leading SEA in these efforts, working hand in hand with our talented faculty and staff."

Peg was widowed in 2005 when she lost her husband, Tony Cave. They met when Tony led a long range planning effort for SEA in 1986 and married in 1999. He was elected as a member of the corporation in 1988, as Trustee in 1992 and served as Acting President of SEA during Rafe Parker's sabbatical in 1995. During his tenure on the Board he was Chair of the Marketing Committee. Peg has a home in South Thomaston, ME and plans to relocate to the Woods Hole area.





Left: Peg Brandon in front of Westward during her first year as Captain in 1986. Right: Peg with the new banner on the Robert C. Seamans in January of 2014.

SCIENCE CORNER

Marine Biodiversity and Conservation Symposium:

Making Contributions and Proposing Solutions

Amy NS Siuda, Associate Professor of Oceanography John O. Jensen, Associate Professor of Maritime Studies and Ocean Policy

This May, SEA will convene the 3rd Annual Marine Biodiversity and Conservation Symposium, the capstone student experience of *SEA Semester: Marine Biodiversity and Conservation (MBC)*. Through generous support from the Virginia Wellington Cabot Foundation, 10-12 experts in national and international marine conservation science and policy convene on the SEA campus for a one-day Symposium to review original scientific contributions and protection strategies for the Sargasso Sea high seas region developed by the *MBC* students.

During the twelve weeks leading up to the Symposium, *MBC* students engage in a daunting adventure to document the biodiversity and characterize the principle human uses of, benefits from, and impacts on the health and stability of the Sargasso Sea ecosystem. Students gain hands-on experience with traditional and emerging techniques in marine biodiversity as well as practical tools and concepts used in place-based marine conservation planning. On the day of the Symposium, *MBC* students present the results of their science and policy research and engage in active dialog with the conservation professionals. The event has proven an even exchange, with invited participants gaining new ideas and energy from the students' fresh approaches, while imparting lessons and perspectives from the front lines to the next generation conservation professionals.



Above: Dr. David Freestone, Executive Director of the Sargasso Sea Alliance, talks with Grenadian C-241 student Jody Daniel. Below, and Top page 19: 2013 Symposium participants on the SEA campus in Woods Hole. Bottom, page 19: 2013 Symposium participants pose for class photo with students of C-241.



SCIENCE CORNER



In addition to building content knowledge and practical skills in conservation science and policy, a critical goal of MBC is to introduce undergraduates to the breadth of career paths available in ocean stewardship, from research science to conservation law to public outreach. MBC students connect directly with a wide array of conservation professionals through guest lectures at SEA, visits to research facilities and institutions in Cape Cod, Bermuda and New York City, and through participation in the Symposium. These encounters provide opportunities for MBC students to begin to build professional relationships with potential internship mentors, graduate school advisors, employers and colleagues. By the time of the Symposium, the students are deeply knowledgeable in Sargasso Sea conservation science and policy, and they have come far in identifying their individual strengths and potential to make tangible contributions and possibly find meaningful careers in marine conservation-related fields. For these reasons and many more, the Symposium motivates, indeed requires, students to move beyond comfort levels and to strive for new heights in their academic and personal performance. The quality of the students, invited experts, and the content of the MBC Symposium showcase SEA's unique capacity to integrate high quality research and undergraduate student growth with real world efforts to improve humankind's relationship with coasts and oceans.



MBC Symposium Invited Participants:

Tundi Agardy, Sound Seas/Forest Trends Association (2012, 2013, confirmed 2014)

Vera Agostini, The Nature Conservancy (confirmed 2014)

Adam Baske, Pew Environmental Group (2012)

Ann Bucklin, University of Connecticut (2012, 2013, confirmed 2014)

Dan Distel, Ocean Genome Legacy Foundation (2012)

Sylvia Earle, Sylvia Earle Alliance/Mission Blue (confirmed 2014)

David Freestone, Sargasso Sea Alliance (2012, confirmed 2014)

Steve Gephard, CT Department of Energy and Environmental Protection (2013)

Kristina Gjerde, IUCN Global Marine and Polar Programme (confirmed 2014)

Annette Govindarajin, Woods Hole Oceanographic Institution (2013)

Brenda Jensen, Hawaii Pacific University (2013)

Jack Kittinger, Stanford Center for Ocean Solutions/Conservation International (2013)

Mike Lomas, Bigelow Laboratory for Ocean Sciences (confirmed 2014)

Rod Mather, University of Rhode Island (2013)

Caleb McClennen, W-144, Wildlife Conservation Society (2012, 2013, confirmed 2014)

Chris McGuire, C-120, The Nature Conservancy (2013)

Clare Morall, St. George's University, Grenada (2012)

Erik Olsen, Institute of Marine Research, Norway (confirmed 2014)

Steve Olsen, University of Rhode Island (2013)

Robbie Smith, Bermuda Aquarium Museum and Zoo (2013)

Paul Snelgrove, Memorial University (2012)

Andrew Solow, Woods Hole Oceanographic Institution (2012)

Heather Tausig, New England Aquarium (2012)

Simon Thorrold, Woods Hole Oceanographic Institution (2012)

Ole Varmer, NOAA Office of the General Counsel (2012)

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Se CUT HERE





Dive Buddies Bond at SEA

By Sean Kim, S-200







For an hour and a half we kneeled against the bulkhead of the training tank – chins and hands on the edge—and we shook as the water continued to wick away our body heat. The sound of aluminum twin 80 SCUBA tanks hitting concrete could be heard as the water flowed over our ears. This distinctive noise was the only evidence of the chaos that was occurring below us. My dive buddy Angie Senese and I were the last two trainees nervously waiting to descend to the bottom of the tank for our pool hits.

Angie and I were in training to become dive medical officers (DMO) for the Navy. Part of the training requires that we complete dive school at the Naval Diving and Salvage Training Center (NDSTC) in Panama City, FL. This course consisted of physical and classroom training geared toward becoming proficient with military diving rigs and the medical treatment of diving related injuries. One daunting aspect of this training is surviving pool week—a week where "problems" or pool hits are imposed upon us under the water.

Angie and I were nervously waiting for our turn to endure these hits. We quietly discussed our pasts in an effort to distract from the challenges ahead. This is how we came to realize that we were both SEA alumni! Angie was a part of W-176 and I had been a part of the S-200 class. Thinking back to my time at Woods Hole and aboard the *R.C. Seamans*, I am impressed by how much the experience had helped me to get to dive school—7 years later.

My SEA experience was a catalyst for personal growth. As a stubborn and pride filled pre-med student, I thought that I was strong and prepared for anything. However, the ocean and the fearlessness of my SEA shipmates humbled me. From them, I learned to step away from the "safe" path and pursue my goals through exploration and new experiences.

Without SEA and my shipmates, I doubt that I would have ever worked as a deckhand aboard the *Schooner Alliance* in the Bahamas and Yorktown, VA. My time aboard the *Alliance* allowed me to hone the skills that I had learned through SEA. Additionally, the teamwork and leadership experiences that I gained out at sea and from SEA are invaluable in my career as an officer in the Navy and as a physician.

It is a neat coincidence that two Navy physicians—in dive school—would also be alumni of the SEA program. However, Angie and I weren't too surprised because it is the characteristics of SEA alumni that influence them to take on these challenging endeavors. As we were finally called to the depths of the tank for our hits, I realized that no matter where I go, I am reminded of SEA and all that it has given me.

Angie and I both endured our repeated introductions to the bulkheads of the tank, and we graduated from dive school. Angie is currently doing research in operational and undersea medicine at the Naval Medical Research Center (Bethesda, MD), and I am currently the DMO for the Navy Expeditionary Combat Forces Command in Bahrain.





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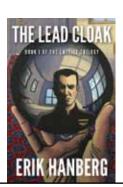


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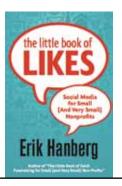


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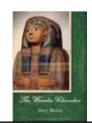
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