

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
INFORMATION EXCHANGE FOR MARINE EDUCATORS

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This update is funded by the National Marine Sanctuary Foundation in partnership with NOAA's Ocean Exploration and Research Program, with additional support from the National Marine Protected Areas Center, to share information pertinent to the marine educator community. It is intended to encourage exchange of information and programs. We hope that it will also promote collaboration among the different educators addressing similar issues in their programs.

Please share this email with your colleagues and constituents. If you request materials or respond to a request for information, please mention that you learned about it from NOAA's Information Exchange.

The information included here has been compiled from many different sources, including EE-NEWS@NAAEE, EEinGEORGIA, the Scout Report, scuttlebutt, NSTA Express, and others. We have verified web addresses, but make no guarantee that they will remain active. The Department of Commerce/NOAA does not necessarily endorse or promote the views or facts presented on these sites.

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Collected archives and issues of the newsletter, past and present, are available at <http://mpa.gov/resources/education/#exchange>. Contact the editor directly at phyllis.dermer@noaa.gov, or by phone at (865) 932-5074, to discuss further enhancements or to contribute information for future issues.

NOTABLE REFERENCE

Invasive Lionfish: A Guide to Control and Management.

This manual can assist coastal managers and field workers with local control and research efforts for invasive lionfish. The guide offers best practices for lionfish control and management including control strategies, outreach and education, research, monitoring, legal considerations, and ideas for securing resources and partnership. The website offers the manual in an online format, but it can also be downloaded as a pdf or printed.

<http://lionfish.gcfi.org/manual/>

INITIATIVE OF THE MONTH

Youth Photo Collection

The Thank You Ocean campaign has initiated a youth photo project and for the next few months, they will debut one or two photos every week. Check out these simple but compelling images and share them with your networks.

<http://www.facebook.com/media/set/?set=a.378478292228337.93808.110068422402660&type=1>

GRANTS AND OPPORTUNITIES

Educational Partnership Program Scholarships

The goal of the Educational Partnership Program is to increase the number of students from underrepresented communities who are educated, trained, and graduated in fields that directly support NOAA's mission. There are scholarship applications for both undergraduates and graduates. The deadlines for application are February 17, 2013 and January 31, 2013, respectively.

<http://www.epp.noaa.gov/>

Environmental Literacy Mini-Grants – Southeast

The Southeast Environmental Education Alliance is partnering with professional environmental education associations across the southeast to provide small grants in support of programs and projects that support and advance environmental education and environmental literacy in the region, in Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee. The deadline for submission is November 1, 2012.

<http://kaee.org/wp-content/uploads/2012/07/SEEA-2012-Mini-Grant-RFP1.pdf>

Ernest F. Hollings Ocean Awareness Trust Fund

The National Marine Sanctuary Foundation's Ocean Awareness Trust Fund promotes public involvement and understanding of the benefits of the oceans to current and future generations and promotes opportunities for people of all ages to become actively interested and involved in ocean stewardship. Projects should increase Americans' understanding of the ocean's value and engage the public to promote action for ocean stewardship. Hurry – the deadline for application is October 26, 2012.

<http://www.nmsfocean.org/our-grants>

Hollings Undergraduate Scholarship Program

NOAA's Ernest F. Hollings scholarship program provides undergraduates with awards that include academic assistance for full-time study; a 10-week, full-time internship position during the summer at a NOAA or partner facility; and, if reappointed, academic assistance during a second academic year. The internship provides hands-on, multi-disciplinary educational training experience involving students in NOAA-related scientific, research, technological, policy, management, and education activities. The deadline for application is January 31, 2013.

http://www.oesd.noaa.gov/Hollings_info.html

Multicultural Initiative in the Marine Sciences: Undergraduate Participation

The Shannon Point Marine Center, with funding from the National Science Foundation, invites applications for the Multicultural Initiative in the Marine Sciences: Undergraduate Participation (MIMSUP), a program designed to increase diversity within the next

generation of marine scientists. Applicants should be currently enrolled in a 4-year college or university. The deadline for application is November 9, 2012.

<http://www.wvu.edu/mimsup/>

Ocean in Focus Conservation Photography Contest

Submit your ocean conservation photos to Marine Photobank for the annual Ocean in Focus Conservation Photography Contest. The contest is open to photographers of all skill levels to compete and donate photos illustrating the many human impacts on marine life and marine ecosystems, as well as ways in which people are working to turn the tide on ocean degradation. The contest features two phases: the initial photo contest followed by a photo essay contest. The deadline for entry is January 31, 2013.

<http://www.marinephotobank.com/resources/OceaninFocusConservationPhotoContest2012.php>

QuikScience Challenge and Ocean Leadership Awards

The QuikScience Challenge for students in California and Hawai'i, sponsored by the USC College Wrigley Institute for Environmental Studies in partnership with Quiksilver Inc., is a competition for teams of middle and high school students that create projects and portfolios on a science subject related to marine or freshwater environments. The Ocean Leadership Award recognizes educators who make outstanding contributions to K-12 ocean science education. The deadline for ocean leader nominations is February 4, 2013, while the deadline for registration for the challenge is October 31, 2012 with projects due February 11, 2013.

<http://www.usc.edu/org/quikscience/>

WHMSI Small Grants

With support from the U.S. Fish and Wildlife Service, the Department of Sustainable Development of the Organization of American States announces a Request for Proposals through the Western Hemisphere Migratory Species Initiative. These small grants are aimed at enhancing the conservation of shared migratory species throughout the Americas by strengthening institutional and human capacity, political commitment, international cooperation, and public-private partnerships at regional, national, and local levels and by building upon existing WHMSI migratory species efforts. The grants are open to organizations vested with legal personality in member states of the OAS including non-governmental organizations, government agencies, and academic and scientific institutions. The deadline for submission is November 1, 2012.

<http://www.oas.org/en/sedi/dsd/biodiversity/WHMSI/MarineRfP.asp>

INTERNSHIPS AND TEMPORARY OPPORTUNITIES

Earth Expeditions and Global Field Master's Program

The Cincinnati Zoo and Botanical Garden, in partnership with Miami University's Project Dragonfly, offers Earth Expeditions graduate courses and the Global Field Program master's degree, some with an emphasis on marine science and education. Sites for 2013 include the Australia, Hawai'i, and many more. The deadline for application is January 28, 2013.

<http://www.projectdragonfly.org/gfp/index.php>

CONFERENCES, WORKSHOPS, AND PROFESSIONAL DEVELOPMENT

Mentoring: Getting Started with Your Mentee - Online

Fish & Wildlife Service's Division of Education Outreach at the National Conservation Training Center offers a new on-line course for mentors, *OUT8081 Mentoring: Getting Started with Your Mentee*. The self-paced course focuses on the tools and skills needed when meeting with a mentee for the first time. Use the search term OUT8081 on the DOI Learn website. Those new to the website will need to request a new account in DOI Learn.

<http://www.doi.gov/doilearn/index.cfm>

Ocean Literacy Summit – Rhode Island

The fourth biennial Ocean Literacy Summit, November 1-3, 2012 in Narragansett Bay, Rhode Island, will offer opportunities for formal and informal educators, ocean scientists, and policymakers to make connections. All of the concurrent sessions feature scientists and educators as co-presenters and will explore Ocean Literacy Principle 7 – the ocean is largely unexplored.

<http://www.neosec.org/previous-summits/2012-ocean-literacy-summit>

School of Rock Workshop – British Columbia

Deep Earth Academy, the Integrated Ocean Drilling Program and the Consortium for Ocean Leadership announce the Spring 2013 School of Rock Expedition for Earth and Ocean Science Educators aboard the JOIDES Resolution, a platform outfitted for scientific exploration and education. Apply for this free workshop, April 1-9, 2013 during tie-up in Victoria, British Columbia. This year's workshop will cover topics such as paleoceanography, sedimentology, and biostratigraphy; seafloor spreading; climate change; composition and structure of the oceanic crust; and methods for sampling the subseafloor environment. Hurry - the deadline for application is October 20, 2012.

<http://www.oceanleadership.org/2012/apply-now-school-of-rock-2013-exploring-cores-and-the-geology-of-the-pacific-northwest/>

EDUCATIONAL RESOURCES

Beach Chair Scientist

The purpose of this website and blog is to bring a simplified perspective to the questions one might have while relaxing on the beach. Check out What Marine Conservationists Are Into, read 10 Beachcombing Adventures, use some of the 13 apps for your day at the beach, and much more.

<http://beachchairscientist.wordpress.com/>

Bioluminescent Web Page

This website from the University of California – Santa Barbara includes information on bioluminescence research, photos, chemistry, and much more. Start here for all your bioluminescence journeys.

<http://www.lifesci.ucsb.edu/~biolum/>

Earth Force

The Earth Force approach combines community development with youth civic engagement, service-learning, and environmental education. The result is national and

local networks of organizations that successfully engage youth in civic life. Check out the extensive list of resources, local stories, and more.

<http://www.earthforce.org/>

Expedition 344: Costa Rica Seismogenesis Project

Follow along with scientists on the *JOIDES Resolution* Expedition 344: Costa Rica Seismogenesis Project, October 23-December 11, 2012. The website will host mission blogs, videos, links to educational resources, and more. Schedule a live video broadcast with your students or other groups; sign up today.

<http://joidesresolution.org/node/2677>

French Polynesia Expeditions

As part of the Global Reef Expedition, a six year voyage to characterize key coral reef habitats around the world, the Living Oceans Foundation will be in French Polynesia for three additional missions - mid-November to mid-December, mid-January to mid-February, and the final leg from mid-March to mid-April. Once completed, the expedition will continue to the Austral and Cook Islands in May. Check out the blogs and follow along through the website.

<http://www.globalreefexpedition.org/>

A Gentle Introduction to GIS

This book contains what beginners need to know about mapping terminology and digital mapping, how to locate geographic features and analyze their patterns, and more. The free, downloadable book uses bookmarks to allow easy navigation among the chapters.

<http://www.geotechcenter.org/Resources/Resource-Center/Textbooks/A-Gentle-Introduction-to-GIS>

Listening for Orcas

The Listening for Orcas website offers visitors the opportunity to learn about the vocal and behavioral cultures of orcas and listen to recorded vocalizations of the three Southern resident pods in the Salish Sea.

<http://listen.orcasound.net/>

ICRS Proceedings

The 12th International Coral Reef Symposium was co-hosted by the ARC Centre of Excellence for Coral Reef Studies and James Cook University, July 9-13, 2012 in Cairns, Australia. The website offers a brief Outcomes Report for an overview of the 5-day event, along with proceedings and the book of abstracts, ePosters, and more.

<http://www.icrs2012.com/Default.htm>

OceansLIVE

OceansLIVE is a partnership between NOAA's Office of National Marine Sanctuaries, the National Marine Sanctuary Foundation, and the University of Rhode Island's Inner Space Center. The program's mission is to bring the ocean to communities nationwide through a multi-media approach highlighting ocean topics occurring across the globe. Web-based technology is used to link people to scientists, educators, and others engaged in active marine research during expeditions and events underway in remote locations around the globe. All previously broadcast materials are archived. Check out the upcoming program schedule on this updated website.

<http://oceanslive.gso.uri.edu/>

OneGeology

OneGeology is an international initiative of the geological surveys of the world with the aim to create dynamic digital geological map data for the world. Use the portal for your mapping needs but be sure to check out OneGeology eXtra with culture, geodiversity, and more. Let the younger students check out the OneGeology Kids section where they can investigate what geology is all about, from dinosaurs and volcanoes to water and energy.

<http://www.onegeology.org/>

Sanctuary Alphabet Mini-Poster

Scroll down the page to download the photo collage of images from the Flower Garden Banks National Marine Sanctuary showing alphabet shapes from A to Z. And be sure to look through the other educational resources on the website.

http://flowergarden.noaa.gov/document_library/edddocuments.html#abc

Treasures of NOAA's Ark - Texas

The Treasures of NOAA's Ark traveling exhibit will remain at Texas Seaport Museum in Galveston, Texas for six to nine months. Created as part of the Preserve America initiative, the exhibit highlights the history of NOAA, and components representing NOAA offices local to the hosting venue will be incorporated to introduce visitors to the many services provided and roles played by NOAA in their community.

http://flowergarden.noaa.gov/image_library/treasuresexhibit.html

Underwater Google Street View

Google Street View splashes into the ocean through a coral reef off the coast of Australia. Now visitors can swim through a coral reef, visit Scott's Hut in Antarctica, go down the Amazon, and walk the streets of New York -- all while sitting at their desks.

<http://maps.google.com/help/maps/streetview/gallery.html>

INITIATIVES, JOURNALS, and MORE

National Seafood Month

October is National Seafood Month; check out these resources from One World One Ocean. Get to Know Your Seafood through Seafood Watch and fish2fork, explore sustainable seafood recipes, and more.

<http://www.oneworldocean.com/initiatives/gofish>