

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
INFORMATION EXCHANGE FOR MARINE EDUCATORS

OCTOBER-Issue 1 2012

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.

WEBSITE OF THE MONTH

Seafloor Explorer

The public is invited to help identify objects they see in images of the seafloor through the interactive website, Seafloor Explorer. The website is a collaboration between oceanographers studying seafloor habitats, web programmers, and social scientists. Visitors are asked to describe if they note any organisms; provide basic measurements; and more. Check this out - identification can be harder than you think.

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

GRANTS AND OPPORTUNITIES

Alibris Collection Award

The Alibris Collection Award is an annual grant of books to an academic, public, special, or K-12 library supporting specific collection development projects that advance the mission, priority areas, and goals of the selected library. The deadline for application is December 1, 2012.

<http://library.alibris.com/collection-award>

American Honda Foundation Grants

The American Honda Foundation makes grants to K–12 schools, colleges, universities, trade schools, and others for programs that benefit youth and scientific education, and programs pertaining to academic or curriculum development that emphasize innovative educational methods and techniques. Grants are awarded on a quarterly basis, with the next deadline for application November 1, 2012.

<http://corporate.honda.com/america/philanthropy.aspx?id=ahf>

California B-Wet Funding

The NOAA Office of National Marine Sanctuaries has issued a Request for Proposals for the Bay Watershed and Education (B-WET) Program for the San Francisco Bay, Monterey Bay, and Santa Barbara watershed areas. The deadline for submission is November 1, 2012.

<http://sanctuaries.noaa.gov/news/bwet/welcome.html>

California Whale Tail Grants

The California Coastal Commission's Whale Tail Grants Program is accepting proposals for coastal and marine education projects. The program supports marine science education and projects encouraging people to value and take action to improve the health of California's marine and coastal environments. Educational projects improving the quality of beaches or coastal or marine habitats are also eligible. Emphasis is on reaching underserved students or members of the public. The deadline for application is November 1, 2012.

<http://www.coastal.ca.gov/publiced/plate/plgrant.html>

Connecting Math to Other Subjects Grants for High School Teachers

This grant funds the creation of high school classroom materials or lessons connecting mathematics to other fields. See the website for eligibility and details. The deadline for application is November 9, 2012.

<http://www.nctm.org/resources/content.aspx?id=1328>

Conservation Leadership Awards

The Conservation Leadership Programme seeks applications for the 2013 Conservation Awards. These awards are aimed at early-career conservationists with no more than 5 years professional experience in the conservation sector. The deadline for application is November 9, 2012.

<http://www.conservationleadershipprogramme.org/Apply.asp>

Earthzine Call for Papers

Earthzine.org is soliciting articles for its 2012 fourth quarterly theme on environmental awareness. Earthzine seeks contributions addressing theory and practices related to

creating and expanding awareness of the Earth's environment. The deadline for submission is December 1, 2012.

<http://www.earthzine.org/2012/08/01/call-for-papers-environmental-awareness/>

Environmental Education Regional Grants

The purpose of the EPA's Environmental Education Regional Grant Program is to increase public awareness and knowledge about environmental issues and provide the skills that participants in its funded projects need to make informed environmental decisions and take responsible actions toward the environment. The deadline for application is November 21, 2012.

<http://epa.gov/education/pdf/solNotice2012.htm>

From the Bow Seat Ocean Awareness Essay Contest

The goal of this contest is to challenge high school students to think critically about challenges facing the ocean, with a focus on the biodiversity and species interdependence in the Gulf of Maine ecosystem. This year's contest theme is *Sea Animals Big and Small*. The contest is an educational complement to *From the Bow Seat*, a documentary on environmental issues impacting the Gulf of Maine which can be downloaded directly from the website. The deadline for submission is June 15, 2013.

<http://www.fromthebowseat.org/contest/index.php>

Hesselbein Institute Ambassador Scholarship

The American Management Association and the Hesselbein Leadership Institute offer the Ambassador Scholarship. The scholarship provides one year of intellectual resources and opportunities to assist participants to be the strong leaders today who will lead the organizations of the future. The deadline for application is December 15, 2012.

<http://www.hesselbeininstitute.org/collaboration/ama/index.html>

IGES Art Contest

The World's a Place of Living Things is the 17th annual art contest held by the Institute for Global Environmental Strategies. The contest is open to students in grades 2-4, who investigate biodiversity and draw a picture showing what they learned. The deadline for entry is November 5, 2012.

<http://strategies.org/education/student-contests/art-contest/2012-the-worlds-a-place-living-things/>

IGNITEgood Millennial Impact Challenge

The Millennial Impact Challenge is open to individuals 30 years old or younger who reside in the United States. Project categories include education, sustainability, and more. Grantees will receive ongoing coaching, pro-bono support, and training. Hurry - the deadline for entry is October 19, 2012.

<http://ignite-good.org/the-competition/>

Lexus Eco Challenge

The Lexus Eco Challenge is open to students in grades 6-12. Students submit an action plan on a specific environmental issue within a listed topic that affects their local community. The deadline for submission for the Land/Water Challenge is October 29, 2012; Air/Climate runs November 5-December 17, 2012; and the Final Challenge runs January 8-February 20, 2013. The website offers lesson plans, research links, and complete details.

<http://lexus.scholastic.com/>

Marine Debris Art Contest

NOAA's Marine Debris Division offers the 2012 Marine Debris Art Contest, Keep the Sea Free of Debris, for K-8 students in all states and U.S. territories. The deadline for submission is October 26, 2012.

<http://marinedebris.noaa.gov/outreach/artrules.html>

Marine Debris Prevention and Removal Grants

NOAA's Marine Debris Prevention and Removal Grants Program supports locally-driven, community-based marine debris prevention and removal projects that benefit coastal habitat, waterways, and wildlife, including migratory fish. The deadline for application is November 1, 2012.

<http://www.habitat.noaa.gov/funding/marinedebris.html>

Mickelson ExxonMobil Teachers Academy

Nominate a teacher for the 2013 Mickelson ExxonMobil Teachers Academy, an all-expenses-paid professional development program for teachers of grades 3-5, to be held in the summer of 2013 in Jersey City, New Jersey. Participants will learn interactive ways to inspire their students in math and science. The deadline for applications is Oct. 31, 2012.

<http://www.sendmyteacher.com/>

National Disaster Recovery Funds for Archives

When disasters strike, archives and special collections can be vulnerable. The Society of American Archivists has created a special fund to help defray the costs of time, storage, and recovery of damaged materials.

<http://www2.archivists.org/news/2008/national-disaster-recovery-fund-for-archives>

National Geographic Kid's Photo Contest

The National Geographic International Photography Contest for Kids accepts photos from kids between the ages of 6 and 14. The categories are animals, scenery, people, and humor. The deadline for entry is October 31, 2012.

<http://kids.nationalgeographic.com/kids/activities/contests/photo-contest/>

National Public Lands Day Photo Contest

Submit your photos depicting volunteers participating at a National Public Lands Day site to the Volunteers in Action Photo Contest. The deadline for entry is November, 10 2012.

<http://www.publiclandsday.org/resources/contest/photo-contest>

National Wetlands Awards

The National Wetlands Awards recognize individuals who have demonstrated extraordinary effort, innovation, and excellence in the area of wetlands preservation. The education and outreach award is presented to a teacher, nonprofit staffer, state/local government employee, or reporter involved in hands-on wetland education. Be sure to check out the other categories. The deadline for nomination is December 14, 2012.

<http://www.nationalwetlandsawards.org/index.htm>

No Bird Left Behind

For the No Bird Left Behind Challenge, show how people can create habitat for birds or how birds find what they need even in the most unlikely places. Take a photo, create a

sculpture or other artwork, shoot video, or write a story or a poem about birds enjoying their habitat. The deadline for submission is November 1, 2012.

<http://www.birds.cornell.edu/celebration/challenge/no-bird-left-behind>

NSTA Awards

The National Science Teachers Association sponsors numerous awards for which environmental educators or their students may be eligible. Most applications are due November 30, 2012. Check these out.

<http://www.nsta.org/about/awards.aspx>

N-Vision a Brighter Future School Grant

This grant is awarded to schools that exhibit creativity in Science, Technology, Engineering, and Math (STEM) education of middle and high school students. The deadline for application is November 16, 2012.

<http://www.westinghousenuclear.com/Community/EducationalGrants.shtm>

Ocean Pals Contest

The Ocean Pals contest from Beneath the Sea is part of an environmental education-through-art program designed to encourage young people to become aware of and share their concerns for the marine environment through poster art. This year's poster theme is *Save Our Sharks*, while digital images should reflect *the Wonderful World of Water*. The deadline for entry is December 22, 2012.

<http://www.beneaththesea.org/ocean-pals/44617>

P3 Design Competition

The EPA is seeking applications proposing to research, develop, and design solutions to real world challenges involving the overall sustainability of human society. The P3 Awards: A National Student Design Competition for Sustainability Focusing on People, Prosperity and the Planet competition highlights the use of scientific principles in creating innovative projects focused on sustainability. The deadline for application is December 12, 2012.

http://epa.gov/ncer/rfa/2013/2013_p3.html

Partners in Flight Awards

The Partners in Flight awards program recognizes exceptional contributions to the field of landbird conservation. Nominees who have furthered the goal of protecting migratory and resident landbirds and their habitats will be evaluated for their effective public awareness activities, leadership, ecological investigation, or land stewardship. The deadline for nomination is December 15, 2012.

<http://www.partnersinflight.org/awards/>

President's Environmental Youth Awards

Sponsored by the EPA, the President's Environmental Youth Awards program recognizes young people for projects which demonstrate their commitment to the environment. The program is available to K-12 individuals, classes, and youth groups. Awards are presented in each of the EPA regions, and one project from each region is presented with a national award. The regional deadline for application is December 31, 2012.

<http://www.epa.gov/enviroed/peya/index.html>

River of Words Art and Poetry Contest

River of Words is an international environmental poetry and art project open to youth ages 5-19, designed to nurture respect and understanding of the natural world. The deadline for entries from the U.S. is December 1, 2012; for international entries, February 1, 2013.

<http://www.stmarys-ca.edu/center-for-environmental-literacy/art-poetry-contest>

SeaWorld & Busch Gardens Conservation Fund

The SeaWorld & Busch Gardens Conservation Fund supports projects in species research, habitat protection, animal rescue and rehabilitation, and conservation education. The deadline for application is December 1, 2012.

<http://www.swbg-conservationfund.org/grantInfoA.htm>

Solve for Tomorrow Contest

Samsung and its partners offer the Solve for Tomorrow contest to foster an increase in the pursuit of STEM education and illustrate the practical impact that applying these subjects can have. Selected participants create a video showing how STEM can help improve the environment in their community. The deadline for application is October 31, 2012.

<http://pages.samsung.com/us/sft/home.html>

Southeast Environmental Education Alliance Mini-grants

The Southeast Environmental Education Alliance and partners offer grants in support of programs and projects that support and advance environmental education and environmental literacy in the region. The deadline for proposal is November 1, 2012.

<http://www.eealliance.org/southeast-environmental-education-alliance-mini-grant-program>

Student Climate Research Publication Opportunity

Harvard University's Journal of Emerging Investigators has formed a collaboration with the Institute for Earth Science Research and Education to publish a series of peer-reviewed climate-related papers authored by middle- and secondary-school students. The journal is an open-access peer-reviewed online journal whose mission is to encourage and publish authentic student research, including science fair projects. The notice of intent to submit is due November 30, 2012.

<http://www.instesre.org/GCCE/PublishingStudentResearch.htm>

Teacher at Sea Program

This NOAA program sends K-college teachers, K-12 administrators, and museum and aquarium educators to sea aboard NOAA research and survey ships to work under the tutelage of scientists and crew. Following their voyages, teachers bring this knowledge back to their classrooms. The deadline for application is November 30, 2012.

<http://teacheratsea.noaa.gov/about/index.html>

Toshiba/NSTA ExploraVision Competition

The Toshiba/NSTA ExploraVision science competition encourages K-12 students to imagine what technology might be like in the future. The competition also helps teacher sponsors meet many of the National Science Education Standards while letting students experience scientific process and discovery in an engaging, hands-on way. The project deadline is January 31, 2013.

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

Walmart Store and Sam's Club Local Giving Programs

The Walmart Foundation supports charitable organizations through its Walmart Store and Sam's Club Giving Programs. Eligible organizations include K-12 public schools/districts, charter schools, community/junior colleges, and others. The deadline for application is December 1, 2012.

<http://foundation.walmart.com/apply-for-grants/local-giving>

CONFERENCES, WORKSHOPS, AND PROFESSIONAL DEVELOPMENT

AMS Annual Meeting, Workshops, and WeatherFest

The American Meteorological Society is hosting its 93rd Annual Meeting, January 6-10, 2013 in Austin, Texas, along with the 12th annual WeatherFest and educator workshops. The free WeatherFest science fair aims to inform and educate about weather, climate, and related fields. Scholarships are available to educators interested in hosting an informal activity booth at this event.

<http://annual.ametsoc.org/2013/index.cfm/information-for/teachers/>

Atlantic Estuarine Research Society Meeting

The Atlantic Estuarine Research Society Fall 2012 Meeting, October 11-13, 2012 in Chincoteague, Virginia will explore Ecosystem Sustainability & Resilience: From Genetics to Populations, Habitats, & Function.

www.aers.info/meetings.htm

Coastal Conservation through STEM - Georgia

The 2012 Georgia Association of Marine Education Conference will take place November 2-4, 2012 on Jekyll Island, Georgia. Scholarships may be available.

<http://www.gamarineeducation.org/sites/default/files/2012GAMERegistration.pdf>

Georgia Shorebirds Conservation Teacher Workshop - Georgia

The Sapelo Island National Estuarine Research Reserve is hosting this teacher workshop November 29-December 2, 2012 on Sapelo Island, Georgia. The workshop is open to formal and informal educators of all grade levels. Participants will receive curriculum and resource materials. The deadline for registration is October 25, 2012.

<http://eeingeorgia.org/net/calendar/details.aspx?s=54703.0.68.4863&mode=p&c=3526135&p=6286>

International Congress for Conservation Biology – Call for Proposals

The Society for Conservation Biology is seeking proposals for symposia, workshops, focus groups, and short courses for the International Congress for Conservation Biology, July 21-25, 2013 in Baltimore, Maryland; the call for oral and poster presentations will come out later in the year. The congress theme is Connecting Systems, Disciplines and Stakeholders. The deadline for submission is November 30, 2012.

<http://www.conbio.org/mini-sites/iccb-2013>

IPMEN Chile

The theme for the 2012 Conference for the International Pacific Marine Educators Network, November 25-December 3, 2012 in Santiago and Patagonia, Chile, is *Un Gran Océano, Muchos Sueños* (One Big Ocean, Many Dreams). The conference will focus

on achieving sustainability in the Pacific via education centered on the ocean and Ocean Literacy.

<http://ipmenchile.wp2.coexploration.org/>

Ocean Exploration Workshops – Various

NOAA's Ocean Exploration Program and partners offer the Okeanos Explorer Education Materials Collection, *How Do We Explore?* Professional Development Workshop for Educators. Participants will receive curriculum with CD-ROM's, certificates of participation, and more. Contact the noted educator or check out the website for registration and more information.

- November 10, 2012 with Hatfield Marine Science Center in Newport, Oregon. The deadline for registration is October 19, 2012. Contact Tracy Crews at tracy.crews@oregonstate.edu.
- November 17, 2012 with Dauphin Island Sea Lab on Dauphin Island, Alabama. The deadline for registration is October 26, 2012. Contact Sara Johnson at sejohnson@disl.org
- November 17, 2012 with Georgia Aquarium in Atlanta, Georgia. The deadline for registration is October 26, 2012. Contact Kim Morris-Zarneke at kzarneke@georgiaaquarium.org
- December 1, 2012 with Aquarium of the Pacific in Long Beach, California. The deadline for registration is November 9, 2012. Contact Alie Lebeau at alebeau@lbaop.org
- December 8, 2012 with South Carolina Aquarium in Charleston, South Carolina. The deadline for registration is November 16, 2012. Contact Jaime Thom at jthom@scaquarium.org

<http://oceanexplorer.noaa.gov/edu/development/development.html>

Ocean Lecture and Educators' Night – New Jersey and Online

Rutgers University's Institute of Marine & Coastal Sciences in New Brunswick, New Jersey will host an event every other month for teachers interested in teaching about ocean literacy and bringing current research into their classrooms. Each meeting will include a Rutgers University scientist presenting on their research along with a question-and-answer period. The final hour will be spent reviewing curriculum developed to align with both the research presented that evening and New Jersey Science Standards. Background materials, lesson plans, and the presentation will all be posted online. The event will be broadcast over the Internet for those unable to attend in person. Please register for each session.

<http://coseenow.net/mare/opportunities-resources/ocean-lecture-educators-night/>

PicturePost Webinar - Online

Lifelines for High School Climate Change Education, a project for high school teachers, is holding a webinar that will cover PicturePost, October 30, 2012. PicturePost is a part of the Digital Earth Watch network that supports environmental monitoring by citizens, students, and community organizations through digital photography and satellite imagery. Learn how teachers and students can contribute using digital images in a growing archive aimed at measuring environmental change. While on the website, check out archived webinars from the Lifelines series.

<https://sites.google.com/a/globalsystemsscience.org/courses-lifelines/presentations-mtgs>

EDUCATIONAL RESOURCES

Database of the Maritime Traffic in the Caribbean

The Regional Marine Pollution Emergency Information and Training Center for the Wider Caribbean has developed a GIS-based database of maritime traffic in the wider Caribbean Region. It provides a visualization of the aggregated routes and the traffic density, along with additional features. Note that the access to the tool is secure; see the website for details.

<http://www.cep.unep.org/news/rac-rempeitc-launches-its-new-gis-based-database-of-the-maritime-traffic>

Digital Storytelling

The Digital Storytelling initiative at Ohio State University define digital storytelling as a short (3-5 minute) movie which uses images, voice, and music to tell a story. The website offers examples such as The Joy of Research, Outside the Glass, and more. The Resources area includes information for those who would like to create their own digital stories with links to copyright-free audio and video sources, along with low-cost or free images.

<http://digitalstory.osu.edu/stories/community/>

Earth Science World Image Bank

The Earth Science World Image Bank from the American Geosciences Institute offers quality geoscience images to the public, educators, and the geoscience community. Categories include weather, lakes, volcanoes, and more.

<http://www.earthscienceworld.org/imagebank/index.html>

Educationlist

This website is an environmental and conservation education catalog. Users can create profiles about programs, events, job postings, grant listings, and more. The website is meant to act as a catalog for EE and CE resources. It can be used to market services and programs to key audiences, and offers a networking and coordination platform.

<http://www.educationlist.net/content/catalog-ee-and-ce-resources>

Exploring Paleoclimatology in the Classroom

This guide provides instructions for educators on how to access and use coral radioisotope data for classroom activities. The data from the World Data Center for Paleoclimatology cover a 271 year period. Educational topics include methods for reconstructing temperature records; the South Pacific Gyre and EL Nino/Southern Oscillation (ENSO); and the relevance of decadal variations in sea surface temperature.

http://serc.carleton.edu/usingdata/datasheets/Paleoclimatology_Rarotonga.html

Many Strong Voices

The goal of Many Strong Voices is to promote the well-being, security, and sustainability of coastal communities in the Arctic and Small Island Developing States by bringing these regions together to take action on climate change mitigation and adaptation, and to tell their stories to the world. Check out the resources pages with links to podcasts, video, and more; read portraits of resilience; and access the free peer-reviewed journal articles, including *Ecosystem-Based Adaptation to Climate Change in Caribbean Small Island Developing States: Integrating Local and External Knowledge*.

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

Marine Biology Coloring Book

The Marine Biology Coloring Book can serve as a useful resource and guide through hand-drawn illustrations and updated text. The process of coloring can focus attention and leave a visual imprint on memory. The latest edition includes ocean currents and global weather, the deep-sea realm, and more. Those interested can preview pages from the book before purchase.

<http://www.harpercollins.com/browseinside/index.aspx?isbn13=9780062737182>

Marine Science Graduate Research Blog

Students with an interest in marine science and research should check out the Northeastern University Marine Science Center's graduate student blog. It's easy to scroll through and offers a look into the lives of grad students in the field and lab.

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

Ocean and You

Cynthia Cudabeck promotes ocean literacy and maintains this website with links to hands-on ocean science resources, ocean crafts instructions, and more. Check out the updated resources, including *Mythbusters: Environmental Edition* with links to games, stories, and other resources.

<http://oceanandyou.com/index.html>

Ocean Frontiers Film Guides

The National Sea Grant Law Center and the Cooperative Institute for Research in Environmental Sciences have produced Discussion/Study Guides for the Ocean Frontiers film. The guides are for university and middle/high school levels and are downloadable from the website along with video clips and information about hosting a film screening.

<http://ocean-frontiers.org/discussion-guides/>

Pacific Islands Ocean Observing System Voyager

This website is an interactive map interface for visualizing and downloading oceanographic observations, forecasts, and other geospatial data and information related to the marine environment in the Pacific Islands. The interface allows users to combine, view, download, and query thousands of ocean and coastal data and access historic, recent, and forecast information. Users can also save maps and share research and visualizations for future use and distribution.

<http://oos.soest.hawaii.edu/pacioos/voyager/>

QUAD: Surfrider Foundation Youth School Clubs

Surfrider Foundation offers Quad, a program and website dedicated to support students who wish to become more involved in Surfrider Foundation's activities on their campuses and in their communities. The program supports students organizing a club or individual project and offers a media platform to communicate awareness of their beach, ocean, or plastic issues. The website highlights ongoing club projects and offers a conservation-related blog with information about projects, grants, and more.

<http://www.surfrider.org/quad>

RiverXchange Curriculum Program

RiverXchange is a year-long water resources curriculum with class partnerships through social networking technology. New Mexico 5th graders are partnered with high tech pen pals elsewhere to share what they are learning about water resources issues relating to

their local river. The program provides a multidisciplinary learning experience for students throughout the school year, integrating standards-based science, social studies, and math lessons with essential writing skills to teach about water resources issues.

<http://riverexchange.com/>

U.S. Fish and Wildlife Service National Digital Library

The U.S. Fish and Wildlife Service's National Digital Library is a collection of images, historical artifacts, audio clips, publications, and video. There are twelve thematic sections, including Aquatic Species, Law Enforcement, Connecting People with Nature, and more. Items can be searched by key word or through the advanced search feature.

<http://digitalmedia.fws.gov/cdm/>

Watershed Educational Resources

South Carolina's Coastal Waccamaw Stormwater Education Consortium hosts this website with links to watershed-themed presentations, lesson plans, and hands-on activities. Check out the River Game, A Fish's Wish, and more.

<http://cwsec-sc.org/264/lessons-activities/>

Women in STEM Radio Stories

This radio series from WAMC, Northeast Public Radio, offers a look into efforts to increase the role of women in the STEM fields. Listeners can learn about programs and practices throughout the U.S. designed to broaden the participation of women in STEM.

<http://www.womeninscience.org/index.php>

INITIATIVES, JOURNALS, and MORE

Earth Science Week

Don't forget: Earth Science Week is October 14-20, 2012. The theme for 2012 is *Discovering Careers in the Earth Science*. Check out the online resources, contests, and more. Check out the opportunities through NASA to connect with explorers, educators, writers, and others.

<http://climate.nasa.gov/eswSite/index.cfm>

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

MentorNet

MentorNet is a web-based national electronic mentoring network for undergraduate and graduate women students in engineering and science, linking students with industry and research professionals in over 70 fields.

http://www.mentornet.net/about_us.aspx