



SCIENCE BYTES

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Ocean Art Contest

Use your creativity and artistic talent to express the importance of our oceans and coasts to you and the world! Winning art work will be displayed at the Smithsonian's National Museum of Natural History.

Eligibility: All students enrolled in grades K -12

Deadline: May 30, 2008

Please see additional attached flyer.

For more information:

<http://www.CoastalAmerica.gov>

Inquiry Competition

The Molecular Frontiers Foundation has announced an inquiry competition!

Prizes* will be awarded to teens from around the world, for posing the most penetrating and insightful questions related to molecular science, which encom-

passes everything from physics and chemistry to physiology and medicine. The questions will be judged by a panel of eminent scientists, including several Nobel laureates, and selected winners will be invited to the Royal Swedish Academy of Sciences in Stockholm to mingle with top scientists.

So, if you are under 18, or you know someone under 18, pose a question at www.MoleClues.org by 7 May 2008.

*Prizes here:

http://www.moleclues.org/index.php?option=com_content&task=view&id=54&Itemid=46

ANROE Workshops and Training Opportunities

1. May 3-31 Conservation Biology for Educators - Online
2. July 23-24: Connecting with Climate Change - Maryland
3. Registration deadline August 2: Making EE Relevant for Culturally Diverse Audiences - Online
4. Registration deadline: August 22-Leadership Development in Natural Resources

Online Opportunities for Youth

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6. Application deadline May 28: EPA Summer Opportunities for Students Website
7. Application deadline May 28: Lorax Challenge
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11. Fire Education Resources
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Funding opportunities

13. Application deadline May 1: Go Overboard Challenge Grant
14. Application deadline May 15th: NAME Mini-grants.
15. Application deadline June 1: Braitmayer Foundation Education Grant Application deadline 16. June 20: Classroom Earth National High School Challenges
17. Application deadline August 1: National Weather Association Sol Hirsch Education Fund Grants

Programs

18. May 9 - 11: Cordova - Copper River Delta Shorebird Festival.
19. Fairbanks: May 9- Stories From a Changing Planet
20. May 11: Migratory Bird Day at the Alaska Zoo

21. Anchorage: May 13: Japan's Winter Wildlife
22. Anchorage: May 15: Galapagos Islands

Workshops and Training Opportunities

1. May 3-31 Conservation Biology for Educators - Online

The Bronx Zoo is piloting its newest online course, Conservation Biology for Educators at a discounted rate. Contact Tom Naiman at tnaiman@wcs.org

2. July 23-24: Connecting with Climate Change - Maryland

NOAA and Sally Ride Science offer this educator conference, Connecting with Climate Change in Silver Spring, Maryland. Explore the latest findings, meet experts, and learn to customize content for your classroom.

http://www.sallyridesience.com/for_educators/conferences/climate

3. Registration deadline August 2: Making EE Relevant for Culturally Diverse Audiences - Online

The 10-week on-line course, September 2-November 6, 2008, is designed to provide participants with the basic knowledge and skills needed to make environmental education relevant to culturally diverse audiences. This online course has been developed in collaboration with national EE experts who represent diverse cultural and ethnic backgrounds. Participants will broaden their perspective of EE to encompass interests and issues of concern to culturally diverse audiences, assess barriers to participation among these audiences, and apply cultural competency skills in building relationships and partnerships with members of an audience they intend to work with in the future. Although there are no prerequisites for this course, a working understanding of environmental education is essential for success in this course.

<http://www.uwsp.edu/natres/eetap/index.aspx>

4. Registration deadline: August 22-Leadership Development in Natural Resources - Online

Leadership Development in Natural Resources: Strategic Planning and Implementation, has been developed by the University of Wisconsin-Stevens Point, the Environmental Education and Training Partnership (EETAP) and Treehaven Environmental Learning Center. The course, from September 22-November 21, 2008, is designed to assist environmental educators and natural resource professionals in learning and applying key elements of successful strategic planning. A variety of strategic planning

models will be examined using case studies, simulation, and small group activity. Emphasis will be placed on managing the strategic planning process to build the capacity of organizations to provide effective environmental education programs. Course participants will also have an opportunity for individual consultation time with the course instructor to discuss specific issues and questions they might have regarding strategic planning.

<http://www.uwsp.edu/natres/eetap/index.aspx>

Opportunities for Youth

5. Application deadline: May 30- Coastal America National Ocean Art Contest. This contest is open to all students from grades K-12. The contest also includes a category for college and university students. The purpose of the contest is to enhance public awareness of the importance of the ocean through visual expression and by incorporating one of the seven "Essential Principles of Ocean literacy". The winning artwork will be displayed at the Smithsonian's National Museum of Natural History in time for the opening of The Ocean Hall. To learn more about the contest, and to find out how to enter, visit the contest website.

http://www.coastalamerica.gov/2008artcontest_rules.html

6. Application deadline May 28: EPA Summer Opportunities for Students Website

The EPA Summer Opportunities website provides a central website through which students may learn about EPA offices and summer employment opportunities.

<http://www.epa.gov/ohr/student>

7. Application deadline May 28: Lorax Challenge

The Youth Venture Lorax Challenge is an opportunity for people ages 12-20 across the country to turn their dreams of saving the planet into reality. Applicants must have a youth-created, -led, and -managed venture team with an ongoing action plan to benefit the community. Each venture team must have a clear, attainable action plan. The deadline for application is May 31, 2008.

<http://genv.net/en-us/lorax>

8. Entry deadline June 6: Green Science Fair For a Better Planet Instructables and Discover magazine offers the Green Science Fair For a Better Planet contest. Think green, share what you've learned, and win prizes. Build an eco-friendly project, test and compare "green" products, repurpose old parts, or just show a greener way to live.

<http://www.instructables.com/id/How-To-Enter-the-Green-Science-Fair-for-a-Better-P/>

Resources for Educators

9. Climate Change: Connections and Solutions curriculum Facing the Future offers the 2-week curriculum unit, Climate Change: Connections and Solutions, free through funding from the Hewlett-Packard Company. The unit is available for grades 6-8 and 9-12. Students are encouraged to think critically about climate change and to collaborate to devise solutions. Students learn about climate change within a systems framework, examining interconnections among environmental, social, and economic issues. Check the website for additional free or for fee curriculum.

<http://www.facingthefuture.org/Curriculum/BuyFacingtheFutureCurriculum/tabid/59/Default.aspx#Curriculum%20Unit>

10. Feet Wet, Hands Dirty

The book Feet Wet, Hands Dirty: Environmental Projects in Maryland Public Schools, highlights 15 different elementary school student-developed environmental projects. Maryland's EE program provides students with the opportunity to investigate environmental issues and take action to preserve or restore the environment. The website offers a preview of the first 15 pages of the book.

<http://www.blurb.com/bookstore/detail/111841>

11. Fire Education Resources

The National Wildfire Coordinating Group Wildland Fire Education Working Team has recently completed a reference document to fire education products which are available on the web or through the symbols cache.

<http://www.myfirecommunity.net/NeighborhoodPosts.aspx?ID=468=1820>

<<http://www.myfirecommunity.net/NeighborhoodPosts.aspx?ID=468&Topic=1820&>>

12. Geology of National Parks

This website from the U.S. Geological Survey draws on thousands of historic and contemporary photographs, views, documents, and other items, creating 3D and photographic tours of dozens of national parks. Visitors will find an alphabetical list of the parks, along with links

to the 3D image galleries, standard image galleries, and selected online field guides. Dig out your 3D glasses and check out Puuhonua o Honaunau National Historic Park and Point Reyes National Seashore, among others.

<http://3dparks.wr.usgs.gov/>

Funding opportunities

13. Application deadline May 1: Go Overboard Challenge Grant

Commit to a cause you're already passionate about. Burton Snowboards and Girl Overboard author, in partnership with Youth Venture, are co-sponsoring the Go Overboard Challenge Grant to find the best youth-led ideas to change the world. Describe how you, your club, your team, or your entire school will Go Overboard.

<http://www.burton.com/gobsite/ChallengeGrant.aspx>

14. Application deadline May 15th: NAME Mini-grants.

Applications for the Northwest Aquatic and Marine Educator's are due to Sue Japhet by May 15th. If you would like an application or have questions about the Mini-grant, send an e-mail to Sue at suejaphet@earthlink.net.

15. Application deadline June 1: Braitmayer Foundation Education Grants

The Braitmayer Foundation offers grants to fund a broad range of K-12 education programs with curricular reform initiatives and professional development opportunities for teachers. The grants can be used as seed money, challenge grants, or to match other grants to the recipient organizations.

<http://www.braitmayerfoundation.org/guid.htm>

16. Application deadline June 20: Classroom Earth National High School Challenge

The National Environmental Education Foundation, in partnership with The Weather Channel, is launching the Classroom Earth National High School Challenge to help provide teachers around the country with support for their innovative work to bring environmental education into the classroom. Grants will be offered for Course Integration and Professional Development.

http://www.neefusa.org/programs/ce_grant.htm

17. Application deadline August 1: National Weather Association Sol Hirsch Education Fund Grants

The National Weather Association awards Sol Hirsch Education Fund Grants for teachers in grades K-12 to improve students' education in meteorology. Teachers selected will be able to use the funds to take an accredited

course in atmospheric sciences, attend a relevant workshop or conference, or purchase scientific materials or equipment for the classroom.

<http://www.nwas.org/grants/solhirsch.php>

Programs

18. May 9 - 11: Cordova - Copper River Delta Shorebird Festival.

Kenai Fjords Tours and Prince William Sound Glacier Cruises are offering a special tour providing roundtrip boat transportation from Whittier to Cordova using one of their 95' custom sightseeing vessels. Join us at the Copper River Delta Shorebird Festival for activities, workshops, and community events in this authentic Alaskan fishing community! For more information visit www.kenafjords.com or www.cordovachamber.com

19. Fairbanks: May 9- Stories From a Changing Planet will be presented from 7 to 9pm (location to be announced). Hear personal stories of life, research and adventure in the world's polar regions from scientists on the Polar-Palooza National Tour. This engaging multimedia show features high definition documentary video, hands-on artifacts and dialog with members of the Polar-Palooza team. Free admission. International Polar Year event produced by Passport to Knowledge and supported by the National Science Foundation (NSF) and NASA's Science Mission Directorate.

20. May 11: Migratory Bird Day at the Alaska Zoo will be held from 10am to 5pm. Mom's get in FREE! Receive \$2 off one adult admission if you bring your old cell phone to be recycled. Learn how migratory birds travel from "Tundra to Tropics" and explore the obstacles they face along the way through an interactive shorebird migration game with prizes. Other activities include event "migration" tracking with pedometers, wingspan comparisons on an actual size display, Kid's Activity Tent with crafts, shade grown coffee for sale in the Coffee Shop, free event posters, conservation booths, and a wild bird release at 4:30 on the Coffee Shop lawn. Overflow parking at the Greek Orthodox Church on O'Malley with free zoo shuttle service to and from the event.

21. Anchorage: May 13: Japan's Winter Wildlife, a photographic trip, will be presented at 7:30pm at the Anchorage Museum of History & Art. She will talk about her observations on Japan, it's culture, and the relationship between wildlife and nature For information, call Jules Tileston at 561-0540 or go to www.asonp.org.

22. Anchorage: May 15: Galapagos Islands will be presented at 7:30pm at the Campbell Creek Science Center at the Anchorage Audubon General Meeting. Public invited.

Flinn Scientific Safety Training Chemical Disposal

Summer is a great time to clean up your chemical storage room, making this month's safety notes entitled "Chemical Disposal" an appropriate topic. If cleaning and organizing is on your agenda, you should anticipate finding unwanted or unusable chemicals. How are you going to dispose of those chemicals? You have more choices than you may realize. We offer several disposal options to help you solve this critical safety problem.

Knowing that your storeroom is free of unwanted chemicals that have been properly disposed of is a great way to reduce stress. Another stress-busting strategy is to order all your science supplies and chemicals from Flinn Scientific. You can rest assured that all your supplies will be there when you need them at the start of the school year. No other company offers faster, more complete and dependable delivery.

To print "Chemical Disposal," please go to:

<http://www.flinnsci.com/Sections/Safety/Snotes/snotes.asp>

Vacancy Announcement for Air Traffic Controllers Trainee - Open to the General Public

The Aviation Careers Division opened a General Public announcement for new Air Traffic Controllers Specialist Trainee. The Announcement (AAC-AMH-08-PUBNAT2-09140) closes May 2nd. However, this announcement will re-open the last two weeks of each month throughout the summer. This is a great opportunity to encourage family and friends to apply. Those that are qualified will be authorized to take the ATSAT. This is the entry level aptitude test. At the time of testing the applicant will indicate the specific geographical areas of interest. Applicants must be hired prior to their 31st birthday.

Visit

http://www.faa.gov/jobs/job_opportunities/airtraffic_controllers/

Register now to watch LIVE chemistry presentations this summer at Flinn Scientific, Inc.

Here's your special invitation to visit Flinn Scientific and learn from some of our nation's best chemistry teachers this summer!

Flinn Scientific is developing a series of teacher-training videos that will ultimately be available to science teachers through our website. This summer Flinn will be filming some of our country's best chemistry teachers performing their favorite chemistry activities in front of a live audience. We'd like you to be a part of our live audience!

Filming will be conducted on Tuesdays, Wednesdays, and Thursdays of most weeks during the summer. You are invited to attend these free, one-of-a-kind filming sessions on a first confirmed-first served basis. Each full-day event will include complimentary breakfast and lunch, some special gifts from Flinn, and two filming sessions of approximately 3 hours each in the new Flinn studio. We expect these sessions to fill up quickly, so reserve your seat early.

We are excited to be able to offer this unique event to our customers. Seating will be limited so pre-registration will be required (walk-ins and "extras" will not be permitted). Sign up with some of your fellow chemistry teachers and make this a special event! Registrations may be submitted by telephone, fax or PDF via email. Confirmations will be sent via email and will be required to attend.

For additional registration details and to download a registration form, please go to <http://www.flinnsci.com/Sections/E-learning/e-learning.asp>

As a member of our live audience, you will be an inspiration to our presenters and will enjoy a "day out" with friends, free food, and be treated to some wonderful chemistry! This will be an event you do not want to miss!

Be sure to join us for a day or two this summer for this special event and some great Chemistry Fun!!! Register now and be a part of our live audience!

Greetings Space Science Education Community!

The LPI Earth and Space Science Newsletter for May 2008 is now available on our Web site. This newsletter highlights Earth and space science education opportunities and news.

Included In This Edition at <http://www.lpi.usra.edu/education/score/news/>
<<http://www.lpi.usra.edu/education/score/news/>>

A mission to observe Earth launches, and more in Calendar. Learn about a variety of astronomy, geoscience, and lunar summer workshops and institutes in Workshops and Courses

Find out about teaching awards and grants, student contests, and an opportunity to watch a mission launch in Events/Opportunities

Connect to new podcasts, videos, and activities, including a modern folktale on auroras, in Resources Read about the disintegrating ice shelf in Antarctica, evidence of past ice ages on Mars, and the discovery of a new type of galaxy in Mission News and Science.

2008-2009 NSTA CONFERENCES

NSTA Regional Conferences – 2008

October – Charlotte, NC: October 30-November 1, 2008

November – Portland, OR: November 20-22, 2008

December – Cincinnati, OH: December 4-6, 2008

2009 National NSTA Conference –

New Orleans, LA – March 19-22, 2009

Shoestring Biotechnology Manual on Sale

Shoestring Biotechnology, the premier laboratory manual that provides low-cost, practical, teacher-tested activities for high-schools and two-year colleges to support the integration of biotechnology into the classroom, is now available for purchase on the Institute's website. Published by the Biotechnology Institute and in conjunction with the National Association of Biology Teachers, the manual provides the basis for the teacher professional development programs that the Biotechnology Institute conducts around the nation. Cost of the comprehensive 312-page manual is \$40.

For information, visit

<http://www.biotechinstitute.org/yourworld/index.php#sourcebook1>

National Science Education Leadership Association's (NSELA) Summer Leadership Institute

This summer you have the opportunity to join leaders from across the country in the National Science Education Leadership Association's (NSELA) Summer Leadership Institute

The theme is "Powerful Professional Learning in Science"

The SLI will be held at the Grove Park Inn in Asheville, July 7-10, 2008.

At this conference, participants will:
Explore the differences between professional development and professional learning.
Experience several powerful designs themselves deeply enough that they will be able to facilitate these designs with the educators with whom they work.?

Evaluate current professional learning programs according to a variety of criteria.

Use a Back mapping Model for planning, implementing, and evaluating professional learning to...

Create a plan to remodel current professional learning approaches so that they more closely align with student learning need, meet National Staff Development Council's standards for staff development, and model the type of learning educators want their students to experience.

You can learn more and register at <http://www.nsela.org/calendar/calendar.html>

Registration details:

Registration fees are:

Members \$375

Non-Members \$420

Powerful Designs for Professional Learning, an \$80+ value, will be given free of charge to participants pre-registering by June 1.

The institute qualifies as NCLB, Title II Part A, Professional Development.

If you have any questions about the SLI, contact Pat Shane (pshane@unc.edu) or Karen Charles (kcharles@rti.org).

If you have questions about the registration form, contact Beth Harris (beth@seven-oaks.net)

Plan Activities Now for Earth Science Week 2008

Earth Science Week (Oct. 12-18) won't take place for months - so now is the perfect time to start planning your activities. Don't wait until the hectic first weeks of the next school year. Take this opportunity to make a wish list: How would you like your students celebrate Earth Science Week 2008?

You can promote this year's theme - "No Child Left Inside" - by planning outdoor activities to help your students learn Earth science firsthand. Whether you schedule a fieldtrip or simply explore the playground, you can find Earth science anywhere there's earth, water, and sky. Maybe your students can record observations of cloud patterns or dig up fossil evidence of past life. Conduct activities featured on the Earth Science Week website at <http://www.earthsciweek.org>.

Last year, Arizona's Petrified Forest National Park organized special events on the park's geology, including hands-on exhibits and guided tours. The Illinois State Geological Survey took students on a Geological Science Field Trip at Pere Marquette State Park. And a "Rock Hounds Unite!" Geology Day was held at the North Branch Nature Center in Montpelier, Vermont, including mini-fieldtrips led by professional geologists. For more

ideas, read about past events at <http://www.earthsciweek.org/highlights/index.html> or see recommendations at <http://www.earthsciweek.org/forplanners/index.html>.

NSTA New Science Teacher Academy

The application for the NSTA New Science Teacher Academy 2008-2009 cohort opened April 1, 2008. For further information and the application, visit www.nsta.org/Academy.

As a NSTA Fellow, you will receive:

Comprehensive NSTA membership and its benefits;

An opportunity to participate in a variety of web-based professional development activities, including web seminars

Unlimited use of resources including vetted web links for lesson plans, links to state and national standards, professional organizations, safety tips and more;

An opportunity to participate in e-Mentoring developed by NSTA, the New Teacher Center, and Montana State University that includes:

e-Mentoring with an experienced teacher in the same science discipline and grade level;

Facilitated online curriculum that focuses on science content and applicable classroom pedagogy;

Access to a nationwide, online network of science educators and scientists that facilitate the exchange of information, ideas, and resources;

Accommodations, coverage of airfare, food, and registration fees to attend the NSTA national conference;

An opportunity to participate in specialized conference pathways and to participate in a Research Dissemination Conference or a Professional Development Institute.

Eligibility:

New Science Teacher Academy Fellows must be:

Located throughout the country*

Entering their second or third year of teaching

Working a schedule with 51% of their classes in middle or high school science.

*Applicants must be residents of one of the 50 states or four U.S. jurisdictions. The jurisdictions are Washington, DC; Puerto Rico; Department of Defense Schools; and the U.S. territories as a group (American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands)

