CRS prepares and sends the Science Resource Guide three times a year to keep you apprised of science education happenings around the Bay. The guide includes information on: Professional Development, Program Deadlines, Grant Deadlines and Temporary Science Exhibits. Next issue—February 2014.


Join us for a Field Trip for Teachers
@ Oakland Museum of California
Friday, October 11, 4:00-7:00pm

Travel throughout California with CRS as we get a special tour of the new Natural Sciences Gallery at the Oakland Museum of California. Explore Oakland, Sutter Buttes, Mt. Shasta, Yosemite, the Tehachapis, Coachella Valley, and the Cordell Bank with out ever leaving Oakland.

Explore OMCA’s art and history galleries along with the newly reopened Gallery of California Natural Sciences on this special evening. OMCA education staff will assist you in discovering new opportunities for engaging your students in the art, culture, and ecology of California. Enjoy hands-on activities and examine classroom materials you can use to prepare students for their visit. Afterwards, join the fun during Friday Nights @ OMCA till 9:00 pm, with food trucks, live music, and more. Teachers attending the event enjoy 10% during this evening at the OMCA Store.

CRS and other educational organizations will have tables in the museum's Blue Oak Cafe: Come visit us there and enjoy the refreshments.

Special for CRS members - Join us at 5:30pm for a special tour of the redesigned Natural Sciences Gallery. After our tour we will meet in the Learning Center Classroom near the entrance to the Natural Sciences Gallery for more networking and door prizes!

RSVP - https://ftftfall2013.eventbrite.com or by emailing Corinn at crs@crscience.org

To Contact CRS - Call 510-527-5212 or email CRS@crscience.org

Take the Science Super Star Challenge

Is your classroom ready to take the challenge? Or maybe your whole school ready to take the challenge?

• Teachers, do you enthusiastically bring science experiences across the curriculum into your classroom?
• Do all your students participate in hands-on lessons and read and write about science?
• Do you and your colleagues collaborate to bring engaging science experiences to their classrooms?
• Does your school's staff take full advantage of the services that CRS provides to them?

We want to reward you for the science teaching and learning happening in your classrooms and schools. We have partnered with publishers and local science program providers to bring you classroom sets of nonfiction science books, school-wide assemblies, classroom field trips, and many more great prizes!

To see last year’s winners and to find out how to complete the challenge this year go to http://www.crscience.org/

Print out the Science Super Star Application form. Start filling out information about the lessons your class has completed. Fill in all the boxes and turn it into CRS by March 31, 2014.
Here Come the Next Generation Science Standards: Get Ready!

In September the NGSS were made the official science standards for California. With Common Core language arts and math standards already in place for this year, teachers will be pleased to discover the interconnections between these three sets of standards. The NGSS implementation (developing curriculum and tests, training teachers) will take place over the next few years. Get a jump start by learning how the NGSS "practices of science and engineering" and the "cross cutting concepts" connect with the teaching and learning goals of the Common Core.

Our first step in supporting you is by creating a new set of web pages that address the different aspects of the standards. www.crcscience.org/educators/standardssupport We are adding new resources to these pages every week, so please consider them a living document and come back often. We will also be featuring a different aspect of the NGSS every month in our e-NewsBlast.

Students Learn Problem Solving Skills through Fun Engineering Challenges

Design challenges bring engineering practices into your science lessons. The National Engineer’s Week website www.eweek.org/EngineersWeek/DiscoverE.aspx?ContentID=90 and the PBS Design Squad website pbskids.org/designsquad/ are good places to start when looking for challenges on different topics.

Are you teaching about force and motion? A challenge to students as to who can make the glider that flies the farthest or the straightest can be a fun lesson. Here are several different lesson plans that you can use to put together a lesson that works just right for you.

- The Incredible Hoop Glider www.sciencebob.com/experiments/straw_hoop_plane.php
- Make a Paper Airplane www.sciencekids.co.nz/lessonplans/flight/paperairplane.html
- Slider Glider www.eweek.org/Site/pdfs/Slider'sGlidersActivity.pdf

Invite CRS to a Staff Meeting!

Sign up Now! Whether you'd like a brief 15-minute overview of CRS services or a more extensive professional development presentation, we can focus on the questions that matter to you, including:

- How do I get help finding lesson ideas, field trips and in-class programs, grant opportunities, and materials?
- How do I get BASIS scientist volunteers in my classroom?
- How can we link the Common Core Standards with the Next Generation Science Standards?
- What can we start planning for a science fair or family science night?
- Kick off your school year with getting your whole staff involved in the CRS Science Super Star Program.
- CRS will come present a one-hour workshop to introduce engineering in the elementary setting -- it's not just about building bridges! Learn some fun and engaging projects that you do in your classrooms. And about resources for exploring further.

Check your calendars and give CRS a call.

To Contact CRS - Call 510-527-5212 or email CRS@crscience.org
Program Deadlines

October 2013

10/1/2013  Registration for Elementary In Class Programs open
           Farallones Marine Sanctuary Association
           http://www.farallones.org/education/index.php

10/1/2013  Applications for Teacher at Sea program BEGINS
           National Oceanic and Atmosphere Administration
           http://teacheratsea.noaa.gov/about/index.html

10/2/2013  Registration opens for Spring Programs
           Hidden Villa
           http://www.hiddenvilla.org/HVEEP.php

10/8/2013  Lottery Deadline for 2013-14 School Programs
           Marina Education Programs
           http://www.ci.berkeley.ca.us/marina-experience-programs/

10/12/2013 Registration for Fieldtrips and training ENDS
           Golden Gate National Recreation Area
           http://www.nps.gov/goga/forteachers/index.htm

10/14/2013 Deadline for Fall 2013 - (Oct 28 - Dec 8) - Online PD
           American Museum of Natural History
           http://learn.amnh.org/

10/15/2013 Spring 2014 Program Sign-up Deadline
           Slide Ranch
           http://www.slideranch.org

10/25/2013 Sign ups for Hybrid Ferry Scholarships ENDS
           Aquarium of the Bay
           http://www.aquariumofthebay.org/teachers/bay-area-k12-programs/hybrid-ferry-program

10/31/2013 Teacher at Sea program application DEADLINE
           National Oceanic and Atmosphere Administration
           http://teacheratsea.noaa.gov/about/index.html

November 2013

11/4/2013  Summer Fellowship Program - Begin accepting applications
           IISME - Industry Initiatives for Science and Math Education
           http://www.iisme.org/

11/10/2013 Spring Guided Field trip Lottery Begins
           SF Botanical Garden & Strybing Arboretum
           http://www.sfbotanicalgarden.org/ye/index.html

11/19/2013 Spring Field trip Sign up for Fremont Learning Center BEGIN
           Don Edwards San Francisco Bay National Wildlife Refuge
           http://www.fws.gov/refuge/Don_Edwards_San_Francisco_Bay/WetlandRoundUp_Fremont.html

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December 2013

12/2/2013  Lottery Deadline for Winter & Spring Fieldtrips
            East Bay Regional Park District
            http://www ebparks.org/activities/educators/trips

12/10/2013  Spring Fieldtrip Lottery ENDS
            SF Botanical Garden & Strybing Arboretum
            http://www.sfbotanicalgarden.org/ye/index.html

January 2014

1/11/2014  Alcatraz Uncovered - workshop - reg by 10/12/13
            Alcatraz Island
            http://www.nps.gov/goga/forteachers/secondary-01.htm

February 2014

2/15/2014  Registration for FALL 2014 workshops Begins
            Life Lab Science Program
            http://www.lifelab.org/for-educators/fieldtrips/

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Professional Development

October 2013

10/1/2013 Teacher Resource Fair  Lindsay Wildlife Museum
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://wildlife-museum.org/
Cost  FREE  Stipend: 
On Tuesday, October 1, Lindsay Wildlife Museum will be hosting a resource fair filled with information on various Bay Area programs for teachers, administrators, and home-school parents. In addition to featuring local math and science educational organizations, this year will include teacher workshops on the new National Core Curriculum and California "Next Generation" Science Standards. For more information, contact Connie Loosli at 925-627-2922 or cloosli@wildlife-museum.org.

10/1/2013 Applications for Teacher at Sea program BEGINS  National Oceanic and Atmosphere Administration
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://teacheratsea.noaa.gov/about/index.html
Cost  FREE  Stipend: 
The mission of the National Oceanic and Atmospheric Administration’s (NOAA) Teacher at Sea (TAS) program is to give teachers a clearer insight into our ocean planet, a greater understanding of maritime work and studies, and to increase their level of environmental literacy by fostering an interdisciplinary research experience. The program provides a unique environment for learning and teaching by sending kindergarten through college-level teachers to sea aboard NOAA research and survey ships to work under the tutelage of scientists and crew. Then, armed with new understanding and experience, teachers bring this knowledge back to their classrooms. Indeed, the greatest payoff of NOAA’s Teacher at Sea program is the enthusiasm for learning more about our ocean planet generated between teachers and students. Since its inception in 1990, the program has enabled more than 430 teachers to gain first-hand experience of science and life at sea. By participating in this program, it becomes possible for teachers to enrich their classroom curricula with a depth of understanding made possible by living and working side-by-side, day and night, with those who contribute to the world’s body of oceanic and atmospheric scientific knowledge.

10/2/2013 Plants, Carbon and Sustainability  California Academy of Sciences
For Grades: 5th;6th;7th;8th
Cost  $15  Stipend: 
Where do plants get their mass from and how does it enter their tissues? Come explore the role that plants play in our carbon cycle, and how they are linked to sustainability in our world. Using hands-on activities, and examining plants with microscopes we will discover the intricacies of plant life and its link to global climate change. This workshop supports curriculum taught in the Plants Student Lab for classes participating in the Rock Program, but can act as a standalone unit as well.

10/3/2013 Fall Teacher Night  The Presidio Trust
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.presidio.gov/visit/teachers/Pages/presidio-teachers-night.aspx
Cost  FREE  Stipend: 

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Printed: 9/26/2013  Professional Development
LITERACY MATTERS, The Language of Learning. Every fall the Presidio invites teachers to get inspired, gather support, and engage with a broader community to help kick-start their school year. Guests have the chance to hear various presentations from leaders in their field, collect educational materials, network with other educators, and learn about opportunities and resources available outside the classroom. The Presidio provides a great outdoor classroom serving more than 20,000 Bay Area students and teachers each year. This year’s program includes a visit to the Welcome to the Presidio exhibit from 4-5 pm, followed by Connecting to Our Heritage, a professional development opportunity from 4:30-5:15 pm. A special program from 6-6:30 pm will include student works from the International Poetry and Art contest presented by Pamela Michael, Co-founder of River of Words and Director of The Center for Environmental Literacy at St. Mary’s College.

10/3/2013  Educator Night  Lawrence Hall of Science
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://lawrencehallofscience.org/visit/events/educator_night
Cost  FREE  Stipend:
5:30-8:00pm. Come explore the museum on your own and learn about all the education programs Lawrence Hall of Science has to offer. Representatives from FOSS, GEMS and others will be there. Exhibits will be open and there will be free food and drinks. Educators can RSVP

10/3/2013 - 10/4/2013  The Growing Classroom: Intro. to Garden Based Learning  Life Lab Science Program
For Grades: 2nd;3rd;4th;5th;6th
http://www.lifelab.org/for-educators/workshops/gcworkshops/
Cost  $300  Stipend:
Find out how to bring learning to life in the garden. Using The Growing Classroom activity guide for grades 2-6, participants in this workshop experience hands-on activities connected to academic content standards, learn basic science concepts and gardening techniques, and develop management strategies for a school garden program.

10/5/2013  Multicultural Astronomy in the Classroom  Astronomical Society of the Pacific
For Grades: 3rd;4th;5th;6th;7th;8th;9th
http://astrosociety.org/education/k12-educators/bay-area-project-astro-workshops/
Cost  $20 (includes lunch)  Stipend:
Location: Hartnell College Planetarium, 411 Central Avenue, Salinas, CA
So often the teaching of astronomy ignores or sidesteps the contributions of non-European and non-U.S. cultures. Few educators receive much training in this area and often stick to what they know best, even when an increasing number of their students are from cultures beyond those familiar to them. In this workshop, explore activities and resources about the astronomical heritage of cultures from around the world, and earn some techniques to engage your students with diverse cultural backgrounds.

10/5/2013  Rainforests of the World - Classroom Kit Training  California Academy of Sciences
For Grades: 4th;5th;6th;7th;8th
Cost  $15  Stipend:
Prepare to lead your students on an exploration of tropical rainforests, one of the most fascinating ecosystems on the planet. This workshop will enhance your understanding of the structure of tropical rainforests, bird adaptations, rainforests soils, plant-animal interactions, and many other topics. Explore the California Academy of Sciences’ Rainforests of the World exhibit and discover ways to connect this unique exhibit with your classroom curriculum. After taking this workshop, you will be eligible to use the Rainforests of the World Kit in your classroom.

10/5/2013  Saturday Seminar: Striving for Equity  Bay Area Science Project
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
https://satsemoct5.eventbrite.com/
Cost  Free  Stipend:

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What does it mean to develop educational environments that are relevant and responsive? As educators, how are we addressing equity in our classrooms and in our schools? Join us in conversation as we reflect and share current research ideas and practices. Keynote: Jeff Duncan-Andrade, Ph.D. Associate Professor of Raza Studies and Education at San Francisco State University and Director of the Educational Equity Initiative at the Institute for Sustainable Economic, Educational, and Environmental Design (ISEEED), AND is a high school teacher in East Oakland.

10/5/2013 Field Trip Planning California Academy of Sciences
For Grades: K;1st;2nd;PK
Cost $15 Stipend:
How can we make field trips into meaningful educational experiences? Come spend the day in our exhibits and learn about best practices in field trip facilitation. With guidance from Academy educators, you will collaborate with other middle and high school teachers to design an exciting and educational field trip for your students, including pre and post activities for your classroom. Leave with a ready-to-use plan and the confidence to lead an awesome trip.

10/5/2013 Watching Out Watersheds with Google Earth: Resource Area for Teachers (RAFT)
For Grades: 5th;6th;7th;8th;9th;10th;11th;12th
http://www.raftbayarea.org/workshops
Cost FREE for members Stipend:
This is a program that is accessed through Google Earth and allows teachers in the south bay to literally look at their watershed with their class. It helps to show our connections to urban runoff by locating the storm drain by the school and following it through engineered channels and creeks and rivers to show the connection out to the bay. Another feature is the historical layer which allows you to show students what kind of habitats use to exist in the bay This impart shows the roles we all play in the health of our watershed and I now use this with my programs and I think it would be a great tool for teachers. INSTRUCTOR: Julie Kahrnoff is the 'Slow the Flow' Program Coordinator at the Don Edwards S.F. Bay NWR Environmental Education Center.

10/8/2013 Waves, Wetlands, and Watersheds California Coastal Commission Public Education Program
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://www.coastal.ca.gov/publiced/waves/waves1.html
Cost Free Stipend:
The California Coastal Commission will be offering a free educator workshop on our Waves, Wetlands, and Watersheds science activity guide at the Berkeley Marina’s Shorebird Nature Center on October 1. (Tentative time 4-6:30pm.) Learn about Waves, Wetlands, and Watersheds at http://www.coastal.ca.gov/publiced/waves/waves1.html and contact Annie Kohut Frankel at (415) 597-5888 or Annie.Frankel@coastal.ca.gov to receive more information about the workshop. Participants will receive a free copy of the resource, try out some of the activities, and learn about other free resources and programs from the Coastal Commission.

10/8/2013 Garden Tours Open House for Educators UC Botanical Garden
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://botanicalgarden.berkeley.edu/
Cost free Stipend:
4-6pm Join us for a special after-hours event in the UC Botanical Garden for teachers, principals, and educators. Learn all about our diverse tour offerings for school groups, our in-class programs, and teacher professional development. botanical tour materials, explore our 'Foods of the Americas' exhibit, go on a sample tour experience with our trained docents, enjoy wine and refreshments and the chance to explore the Garden in gorgeous twilight! RSVP to gracew@berkeley.edu.

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Cost FREE Stipend:
Free Webinar on NGSS
10/9/2013 Owl Pellets and Beyond - Classroom Kit Training
California Academy of Sciences
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
Cost $15
Stipend:
Owl Pellets and Beyond - Revised! What do barn owls eat? Learn how to identify the skulls of prey found in owl pellets by using a simple dichotomous key. Students will love this simple discovery lesson that is appropriate for all ages. This activity follows the scientific process by creating a hypothesis, following a procedure, collecting data, and creating a graph to show the class results. A brand new board game that includes fun trivia focuses on the prey of barn owls.

10/9/2013 Teacher Open House
NatureBridge at Golden Gate
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.naturebridge.org/golden-gate/teacher-open-house-golden-gate
Cost FREE
Stipend:
At NatureBridge, your students will be inspired as they experience learning that can’t be found in textbooks. Students will learn science and deepen their connection to the natural world through guided hands-on exploration of this magnificent ecosystem.

Three- to five-day programs available. NatureBridge provides lodging, meals, and adventure. Convenient location just 15 minutes from San Francisco, easily accessible from the Bay Area and Sacramento. All programs are customized to compliment your classroom curriculum and support state science standards. Need-based scholarships are available.

10/10/2013 Plant It, Grow It, Eat It - Enhancing Nutrition Education - reg by 10/5/12
Life Lab Science Program
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://www.lifelab.org
Cost $150
Stipend:
Make the connection from seed to table in this fun and delicious one-day workshop. Explore ways to teach nutrition through gardening, harvesting and meal preparation in Life Lab’s Chez Panisse Garden Kitchen. You’ll learn how effective ways to encourage kids grades 2-8 to eat more fruits and vegetables as part of a healthy lifestyle. Participants will sample the bounty of the farm and harvest to prepare a nutritious lunch. You’ll receive an activity packet with gardening and nutrition lessons, recipes, and garden kitchen resources.

10/11/2013 Fall Teacher Feature & CRS Field Trip for Teachers
Oakland Museum of California
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://ftfffall2013.eventbrite.com
Cost FREE
Stipend:
RSVP 510-318-847  Education staff will assist you in discovering new opportunities for engaging your students in the explore the Art and History Galleries on this special evening of light refreshments and lively ideas. art and culture of California. View the Days of the Dead exhibition and meet participating artists. Enjoy hands-on activities and examine classroom materials you can use to prepare students for their visit. Check our website for more details www.museumca.org

10/12/2013 Beyond the Four Walls
Resource Area for Teachers (RAFT)
For Grades: 2nd;3rd;4th;5th;6th;7th;8th
http://www.raftbayarea.org/workshops
Cost $20 for members; $35 for non-members
Stipend:
In Beyond the Four Walls teachers will learn how to use the environment to teach basic lessons to enhance learning. Using cross-curricular methods in art, science, math and language you can incorporate creative thinking, classification, fine motor skills, gross motor skills, and open ended projects.
INSTRUCTOR: Shalek Chappill has worked with children of all ages, backgrounds, and abilities. She currently works for Sunnyvale School District in the ED program. Concurrently, Shalek is attending National University to receive an M.A. and credential in Education.

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Printed: 9/26/2013  Professional Development
RAFT Activities to Teach Energy
Resource Area for Teachers (RAFT)

For Grades: 1st; 2nd; 3rd; 4th; 5th; 6th; 7th; 8th; 9th; 10th; 11th; 12th
http://www.raftbayarea.org/workshops

Cost $15 for members; $30 for non-members

RAFT has many activities to teach about energy, we’ll look at some of the best to use in the classroom. Materials/Activity Kits for your classroom use will be distributed. INSTRUCTOR: Tom Gates has been an educator for over 40 years. He has taught secondary mathematics, and college astronomy courses. He was an administrator of the Space Science Center for Foothill/De Anza colleges and taught evening music courses (B.A. in Music Education as well as a M.S. in Natural and Applied Sciences) for colleges and other organizations. He was an educator for NASA, giving teacher workshops, classroom visits, and assembly programs for 17 years. Tom did workshops for RAFT while with NASA and upon retiring, came to work for RAFT in an outreach and workshop capacity.

Teacher Workshops @ Tyson Lagoon: Butterfly Habitat
Math Science Nucleus

For Grades: K; 1st; 2nd; 3rd; 4th; 5th; 6th; 7th; 8th; 9th; 10th; 11th; 12th
http://msnucleus.org/classes/teacherworkshop.html

Cost $15 per person (SPECIAL: first 15 teachers free*)

How to bring butterflies into the classroom without buying them - Habitat in the Classroom (receive milkweed plants) and how you can maintain a habitat in a 5-10 gallon aquarium. Learn the different host plants needed.

Free Teacher Preview - Star Wars®: Where Science Meets Imagination
The Tech Museum of Innovation

For Grades: K; 1st; 2nd; 3rd; 4th; 5th; 6th; 7th; 8th; 9th; 10th; 11th; 12th
http://www.thetech.org/plan-your-visit/special-exhibitions/Mythbusters#Education

Cost FREE

9:00 a.m. Space is limited. Call 1-408-294-8324, option 3 to reserve your space.

When Great Minds Meet Great Materials
Resource Area for Teachers (RAFT)

For Grades: K; 1st; 2nd; 3rd; 4th; 5th; 6th; 7th; 8th
http://www.raftbayarea.org/calendar-of-events

Cost free

The RAFT education team will be on hand to offer great ideas with a variety of materials. Come in for a fun day of activities. The team will be here to assist and answer any questions.

Engineering Made Easy: Design Projects for All Ages
Resource Area for Teachers (RAFT)

For Grades: K; 1st; 2nd; 3rd; 4th; 5th; 6th; 7th; 8th; 9th; 10th; 11th; 12th
http://www.raftbayarea.org/workshops

Cost $20 for members; $35 for non-members

Engineering is a big part of the new Common Core curriculum, and yet most educators would not claim to be experts in this field. Not to worry! RAFT’s curriculum-aligned, hands-on activities immerse students of all ages in design-challenge learning. Very little teacher prep time or class time is required. Whether you are a trained engineer or a novice, you will leave “Engineering Made Easy” with useful hands-on materials and practical ideas you can apply right away. INSTRUCTOR: Greg Brown is the current Director of Education at Resource Area For Teaching (RAFT), in San Jose, CA.

Tracking Workshop
Felidae Conservation Fund

For Grades: K; 1st; 2nd; 3rd; 4th; 5th; 6th; 7th; 8th; 9th; 10th; 11th; 12th
http://www.felidaefund.org/

Cost 20.00

It will be at our Fort Cronkite office in the morning, then after lunch we will head out into the field to put their new found skills to the test. For more information, or to sign-up, Please contact info@felidaefund.org.

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Printed: 9/26/2013 Professional Development
10/18/2013 - 10/20/2013  
**Northern Fall Conference – 2013**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
**Cost**: $50  
Pioneer Trail Campground  
Pinecrest, CA

9/9/2013 - 10/20/2013  
**Self-paced online EEI Professional Development course**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
[http://www.californiaeei.org/CEUProgram/default.htm](http://www.californiaeei.org/CEUProgram/default.htm)  
**Cost**: $342  
Education and the Environment Initiative (EEI) - Earn University Credit for Teaching the EEI Curriculum! This self-paced online EEI Professional Development course guides you through teaching an EEI unit of your choice. As described in the Course Syllabus (PDF), you can expect to spend 15 hours exploring your EEI unit and its components, plus up to six hours for assignments, each of which is directly related to teaching EEI to a class of students. You will receive one university credit for successful course completion.  
Course Cost: $250 (text materials included) - University Credit Cost: $92

10/22/2013  
**NGSS Webinar - PS4: Waves and Their Applications**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
**Cost**: FREE  
Free Webinar on NGSS

10/24/2013 - 10/26/2013  
**NSTA Area Conference - Portland**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
[http://www.nsta.org/conferences/2013por/](http://www.nsta.org/conferences/2013por/)  
**Cost**: $175 early bird registration  
Come explore the Next Generation Science Standards and learn how science links with the Common Core State Standards in ELA and Mathematics. You can also discover how to connect Science, Technology, Engineering, and Mathematics to benefit all our students and everybody's future. We've planned an engaging conference filled with hands-on workshops, presentations, and field trips that will provide you with the tools to build your bridge to the future.

10/26/2013  
**Sense of Wonder: Exploration of the five senses**  
For Grades: K;1st;2nd;3rd;4th;5th  
[http://www.raftbayarea.org/workshops](http://www.raftbayarea.org/workshops)  
**Cost**: COST: $25 for members; $40 for non-members  
Don't just plan experiments, learn to teach activities that can be used in the classroom individually, or used all together to plan a Family Science Night. In aligning with Common Core, class will have language, math, and art connections, along with the science exploration.

10/25/2013 - 10/27/2013  
**2013 California Science Education Conference - Palm Springs**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
**Cost**: $123  
Palm Springs - This annual event is the premier annual professional development event for science teachers and educators in California. Conference events address all areas of science education, including life science, earth/space science, physical science, environmental science, literacy, English language development, and assessment.
First Day of 6 week- Self-paced online EEI Professional Development course  Cal EPA
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.californiaeei.org/CEUProgram/default.htm
Cost $342  Stipend:

Education and the Environment Initiative (EEI) - Earn University Credit for Teaching the EEI Curriculum! This self-paced online EEI Professional Development course guides you through teaching an EEI unit of your choice. As described in the Course Syllabus (PDF), you can expect to spend 15 hours exploring your EEI unit and its components, plus up to six hours for assignments, each of which is directly related to teaching EEI to a class of students. You will receive one university credit for successful course completion.

Course Cost: $250 (text materials included) - University Credit Cost: $92

November 2013

Bay Area Science Festival 2013  Bay Area Science
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK
http://www.bayareascience.org/festival/
Cost FREE  Stipend:
(October 24 to November 2, 2013) - 3rd Bay Area Science Festival Returns 10 Days. 50 Events. We’re coming back this year - bigger and better than ever! Our full schedule of events will be released later this fall - rest assured there will be plenty of new events alongside many of returning favorites. We’ll also be announcing some new large performance events early this summer. In the meantime, be sure to save the date!

LiMPETS Introduction to Sandy Beach Monitoring - FREE  Farallones Marine Sanctuary Association
For Grades: 6th;7th;8th;9th;10th;11th;12th
http://limpetsmonitoring.org/resources_workshops.php
Cost Free  Stipend: $50
Monterey Bay area: Saturday, November 2, 2013, at the Pacific Grove Museum of Natural History and Asilomar State Beach. Get involved in this exciting science education program for students. Participants receive the new 5-unit LiMPETS Curriculum and are trained to survey the distribution and abundance of the Pacific mole crab at one of many monitoring sites along the coast.

The Solar System in Real Time  Resource Area for Teachers (RAFT)
For Grades: 2nd;3rd;4th;5th;6th;7th;8th
http://www.raftbayarea.org/workshops
Cost $15 for members; $30 for non-members  Stipend:
A number of fun activities to teach light and color from lower grades through upper grades. Participants will receive take home materials.

Fall 2013(Sept 23-Nov 3) - Online PD  American Museum of Natural History
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://learn.amnh.org/
Cost 495  Stipend:
Fall 2013 - Session 1 - September 23 2013 - November 3 2013
Water, Earth: Inside and Out, Evolution, Space, Time and Motion, Genetics, Genomics, Genethics

Webinar: Reading Informational Text: Focus on Integration of Knowledge  EdWeb.net
For Grades: 2nd;3rd;4th;5th;6th;7th;8th
Cost FREE  Stipend:

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Printed: 9/26/2013  Professional Development
Nonfiction books and articles are often packed with charts, graphs, maps, diagrams and timelines. These graphic features are terrific entry points for students to begin engaging in a topic. They are also important sources of information that contribute to an understanding of the text in which they appear. In this TIME For Kids webinar, we will share examples of nonfiction articles that have significant visual components, and we will provide Common-Core aligned activities to help support students in grades 2—8 as they work to integrate information from a text with knowledge gained from a map, chart, or other graphic. Focus on the integration of information from two or more sources, print or digital. Of course, today’s students are accustomed to having many sources of information at their fingertips. With that in mind, we will provide tools for helping students evaluate the reliability and accuracy of sources. The goal is to help you build independent readers who are capable of conducting their own research in order to become knowledgeable on topics of their choice. These real-world literacy skills are critical across the curriculum, and we invite teachers who focus on all subject areas to join us.

11/5/2013  NGSS Webinar -ESS1: Earth’s Place in the Universe  National Science Teachers Association
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Cost    FREE  Stipend:
Free Webinar on NGSS

11/6/2013  Skulls: Study of Structure & Function - Kit Based Workshop  California Academy of Sciences
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th
Cost    $15  Stipend:
An animal skull can be an amazing resource for exploring natural history and practicing skills such as observation and interpretation. In this workshop, participants will investigate the skulls of seven Northern Californian mammals and learn some of the critical differences that distinguish herbivores, omnivores, and carnivores. Discover the significance of eye placement and learn to infer what animals eat from the shapes of their teeth. After taking this workshop, you will be eligible to use the Skulls Kit in your classroom.

11/9/2013  Beyond the Four Walls  Resource Area for Teachers (RAFT)
For Grades:  K;1st;2nd
http://www.raftbayarea.org/workshops
Cost    $20 for members; $35 for non-members  Stipend:
In Beyond the Four Walls teachers will learn how to use the environment to teach basic lessons to enhance learning. Using cross-curricular methods in art, science, math and language you can incorporate creative thinking, classification, fine motor skills, gross motor skills, and open ended projects. INSTRUCTOR: Shalek Chappill has worked with children of all ages, backgrounds, and abilities.

11/16/2013  Astronomy in the Classroom for Pre-service Teachers Workshop  Astronomical Society of the Pacific
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://astrosociety.org/education/k12-educators/bay-area-project-astro-workshops/
Cost    FREE  Stipend:
9:00am – 12:30pm @ Astronomical Society of the Pacific, 390 Ashton Avenue, San Francisco, CA
Specifically designed for pre-service teachers, this workshop will engage participants in inquiry-based teaching methods for presenting earth and space science content; and NASA-developed education resources useful in the classroom. This professional development opportunity includes a general introduction to basic concepts in astronomy, including the pedagogy of conducting hands-on activities which emphasize science practices in the context of the Framework for K-12 Science Education and the Next Generation Science Standards, and connections to the Common Core Standards. Each participant will receive ASP’s best-selling The Universe at Your Fingertips 2.0 DVD-ROM education resource (retail value $30).
11/16/2013 Plate Tectonics Bay Area Earth Science Institute
For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.baesi.org/
Cost FREE Stipend:
In this workshop keyed to the California Science Standards, you'll explore a variety of ways to help your students understand continental drift, plate tectonics, the distribution of earthquakes and volcanoes, plate boundaries, and other cool stuff. We will also discuss how workshop concepts and activities connect to the Common Core and Next Generation Science Standards.
Presenters: LeAnne Teruya and Ellen Metzger (BAESI/SJSU Geology)
Participants will receive ready-to-use classroom activities, and (in combination with any other full-day BAESI workshop), you will be eligible to earn 1 unit of Geology 104 for $50. If you do not need academic credit, the workshop is free.

11/16/2013 Fun with Light and Color Resource Area for Teachers (RAFT)
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raftbayarea.org/workshops
Cost $15 for members; $30 for non-members Stipend:
A number of fun activities to teach about light and color. All participants receive materials to take back to their classroom. INSTRUCTOR: Tom Gates

11/16/2013 Educator Extravaganza - Open house California Academy of Sciences
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.calacademy.org/teachers/tiss/?page=teacher-workshops-calendar
Cost $5 Stipend:
Explore the Academy inside and out, gathering inspiration, resources and activities to bring science to life in your classroom. Choose when you arrive from a variety of hands-on workshops, behind-the-scenes tours, or activities in our exhibits. Meet Academy researchers and educators, experience the exhibits after hours, and learn about our many resources for teachers. Advance registration is required! Space is limited. The $5 registration fee will help support our education programs. For more information and to register, visit us online: www.calacademy.org/teachers/extravaganza/rsvp.

11/18/2013 - 11/19/2013 1st Annual California STEM Conference 2013 California Department of Education
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://cdefoundation.org/stemconference/
Cost 280 Stipend:
This conference will bring together 2000 teachers, administrators, students, higher education representatives, program providers, philanthropic representatives and industry representatives to engage them in STEM education by providing strategies and resources for program implementation. The conference will have a special focus on increasing and supporting the participation of women and girls—as well as other underrepresented groups—in STEM fields. It will also highlight leaders in classroom innovation from across the state and attract student teams to showcase critical thinking, problem solving, and teamwork.
Key Note Speakers and Special Guests: Geena Davis, Sugata Mitra, Jose Hernandez (invited)

11/19/2013 NGSS Webinar ESS2: Earth’s Systems National Science Teachers Association
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Cost FREE Stipend:
Free Webinar on NGSS

11/20/2013 Teacher's Workshops @ Tyson Lagoon: Hayward Fault Math Science Nucleus
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://msnucleus.org/classes/teacherworkshop.html
Cost $15 per person (SPECIAL: first 15 teachers free*) Stipend:
The Hayward Fault creates Tyson Lagoon. Learn about the importance of fault creep and how the fault has shaped the East Bay. Basic Plate Tectonics and walk through area; learn about trails throughout Fremont.

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Printed: 9/26/2013 Professional Development
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<tr>
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<td>DataStreme Atmosphere Science Education Course</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td><a href="http://www.ametsoc.org/amsedu/DataStremeFrames.html">http://www.ametsoc.org/amsedu/DataStremeFrames.html</a></td>
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<td>12/8/2013</td>
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<td><a href="http://fallmeeting.agu.org/2013/events/public-lecture/">http://fallmeeting.agu.org/2013/events/public-lecture/</a></td>
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<td>12/8/2013</td>
<td>Family Exploration Station</td>
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<td>FREE</td>
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*DataStreme Atmosphere is a major precollege teacher enhancement initiative of the American Meteorological Society with the main goal of training of Weather Education Resource Teachers who will promote the teaching of science, mathematics and technology using weather as a vehicle, across the K-12 curriculum in their home school districts. The initial step in the training of Resource Teachers is their participation in the DataStreme Atmosphere distance-learning course. The 13-week course is offered twice a year to selected participants. It focuses on the study of the atmospheric environment through the use of electronically transmitted weather data and learning materials combined with Study Guide readings and investigations.*

*Free Webinar on NGSS*

*Dive into the world of the coral reef ecosystem through a variety of engaging, hands-on activities and games. Learn about the anatomy of a coral polyp by making an edible model. Discover the importance of coral reefs and the critical environmental conditions necessary for coral survival through interactive games. Take all these exciting activities and materials back to the classroom to prepare your students for a visit to the California Academy of Sciences’ Philippine coral reef exhibit.*

*From 1pm-5pm, please visit the Exploration Station- featuring over 30 hands-on exhibits this year on diverse topics such as the electromagnetic spectrum, Mars, oceans, the polar regions, and more. This is a family science event designed to showcase AGU science and allow the public to interact directly with scientists and education specialists.*

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10/29/2013 - 12/8/2013  
**Fall 2013 - (Oct 28 - Dec 8) - Online PD**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
**Cost**: 495  
**Stipend:**  
Fall 2013 - Session 2 - October 28 2013 - December 8 2013  
Climate Change, The Solar System, Earth: Inside and Out, Evolution, Genetics, Genomics, Genethics

12/9/2013 - 12/10/2013  
**Geophysical Information for Teachers (GIFT) Workshop**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
**Cost**: FREE  
**Stipend:**  
GIFT 2013 will take place on Monday 9 December and Tuesday 10 December in San Francisco Marriott Marquis- Golden Gate A. K-12 educators may register free of charge for both the Fall Meeting and the GIFT workshop. Follow the link above, sign in or create an account, and register for the Fall Meeting. You will have the option to select both days of GIFT under ‘workshops’. Please be advised that you will asked to upload a copy of your teaching identification. Geophysical Information for Teachers (GIFT) Workshops allow science teachers to hear about the latest geoscience research from the scientists making the discoveries, explore new classroom resources for their students, and visit exhibits and technical sessions of the AGU meeting for free. AGU collaborates with the National Earth Science Teachers’ Association (NESTA) to run GIFT workshops at Fall meeting.

12/14/2013  
**Evolution- Classroom Kit Training**  
For Grades: 7th;8th;9th;10th;11th;12th  
**Cost**: $15  
**Stipend:**  
Evolution is happening all around us! Take part in a workshop that brings the concepts of evolution to life. Engage in hands-on activities that explore reproductive fitness, genetic variation, natural selection, predation, and many more concepts of evolution. Current scientific publications are included to support student learning on each concept. Participants leave with a wealth of activities to enhance student learning about evolution.

12/18/2013  
**Teacher Workshops @ Tyson Lagoon: Water Chemistry**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
[http://msnucleus.org/classes/teacherworkshop.html](http://msnucleus.org/classes/teacherworkshop.html)  
**Cost**: $15 per person (SPECIAL: first 15 teachers free*)  
**Stipend:**  
Learn how to do simply tests to test for pH, temperature, nitrates, and other ions, from litmus paper to red cabbage, and scientific probes and how to use data charts to interpret data.

January 2014

1/4/2014  
**Free Teacher Preview -Journey to the South Pacific IMAX movie**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
[http://www.thetech.org/plan-your-visit/special-exhibitions/Mythbusters#Education](http://www.thetech.org/plan-your-visit/special-exhibitions/Mythbusters#Education)  
**Cost**: FREE  
**Stipend:**  
10:00 a.m. - Space is limited. Please call 1-408-294-8324, option 3 to reserve your space today.

1/11/2014  
**LiMPETS Introduction to Rocky Intertidal Monitoring**  
For Grades: 6th;7th;8th;9th;10th;11th;12th  
[http://limpetsmonitoring.org/resources_workshops.php](http://limpetsmonitoring.org/resources_workshops.php)  
**Cost**: FREE  
**Stipend**: $50

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Monterey Bay area: Saturday, January 11, 2014 at the Pacific Grove Museum of Natural History and Asilomar State Beach.
Learn to participate in this in-depth science education program for students. Participants receive new curriculum, learn to correctly identify algae and invertebrates, and practice the monitoring methods used in the field.

1/11/2014 Build Your Own Telescope! Astronomical Society of the Pacific
For Grades: 3rd;4th;5th;6th;7th;8th;9th
http://astrosociety.org/education/k12-educators/bay-area-project-astro-workshops/
Cost $30 Stipend:
Using the Galileoscope to Teach Light and Optics in the Classroom @ College of San Mateo Science Building, 1700 West Hillsdale Blvd., San Mateo, CA - register early!
Learn about how telescopes work and how to use the Galileoscope in your classroom. Through hands-on activities in light and optics, workshop participants will learn about the behavior of light and build their own Galileoscope, modeled on the telescope Galileo used to observe mountains on the Moon, the moons of Jupiter, the phases of Venus, and more! Each teacher participant will receive a set of Galileoscopes for use in their classroom. Space is limited so

1/13/2014 First Day of 6 week- Self-paced online EEI Professional Develop.course Cal EPA
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.californiaeei.org/CEUProgram/default.htm
Cost $342 Stipend:
Education and the Environment Initiative (EEI) - Earn University Credit for Teaching the EEI Curriculum! This self-paced online EEI Professional Development course guides you through teaching an EEI unit of your choice. As described in the Course Syllabus (PDF), you can expect to spend 15 hours exploring your EEI unit and its components, plus up to six hours for assignments, each of which is directly related to teaching EEI to a class of students. You will receive one university credit for successful course completion. Course Cost: $250 (text materials included) - University Credit Cost: $92

1/14/2014 Sensible Habitats - Park as Classroom Workshop - reg 10/12/13 Fort Point National Historic Site
For Grades: K;1st;2nd
http://www.nps.gov/goga/forteachers/index.htm
Cost FREE Stipend:
Required in order to take part in the parks free fieldtrip program

1/15/2014 Teacher Workshops Native and Non Native Fishes of the East Bay Math Science Nucleus
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://msnucleus.org/classes/teacherworkshop.html
Cost $15 per person (SPECIAL: first 15 teachers free*) Stipend:
Alameda Creek was once home to steelhead trout and salmon. What happened? Also look at how the Gold Rush brought in non native fish and changed the ecosystem forever. Learn about free fish field trips for your students at Tule.

1/17/2014 - 1/19/2014 California PK 1 Conference in San Jose California Kindergarten Association
For Grades: K;1st;PK
http://www.californiakindergartenassociation.org/
Cost $190 Stipend:
Hyatt Regency Santa Clara – Santa Clara, CA

1/23/2014 Point of Inquiry- Park as Classroom Workshop - reg 10/12/13 Fort Point National Historic Site
For Grades: K;1st;2nd
http://www.nps.gov/goga/forteachers/index.htm
Cost FREE Stipend:

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Printed: 9/26/2013 Professional Development
Required in order to take part in the parks free fieldtrip program. Fort Point, an enduring symbol of Gold Rush San Francisco, is the perfect site for your history sleuths to imagine, investigate, and pose questions of who, what, where, when, and why. Students explore the fort as they formulate "information questions" and "questions for deeper meaning." Through both individual and small group work, students construct their own interpretation of the significance of Fort Point and the era it represents. Following their investigation, the students are joined by a NPS representative who engages them in a discussion based on their questions and conclusions.

After a short lunch break, a representative of the Presidio Community YMCA leads your students in group games and other recreational activities.

1/25/2014  **Saturday Seminar -Transitioning to Meaningful Assessments**  
Bay Area Science Project  
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.lawrencehallofscience.org/services_and_expertise/professional_development/k12_science_profession  
Cost  FREE  
Stipend:  
Join colleagues across grade levels, subject areas and school districts as we learn to design and refine formative assessments and use the results to target our instruction. How can we equip students with the language and skills they need to meet Common Core Standards and demonstrate their understanding? How can we work together at our schools and in our districts to make sense of what students produce and use their work to inform our teaching? This morning will be devoted to using the Cycle of Inquiry to improve instruction and performance.

Keynote: Tim Dewar: After receiving his PhD in English education from UC Santa Barbara, Tim Dewar joined the faculty in the Department of Secondary Education at the State University of New York, New Paltz as an Assistant Professor teaching courses in English education and coordinating the undergraduate English education program. He is a specialist in the teaching and assessment of writing, in research on classroom practices, and in the professional development of teachers of English and the language arts. He also served as a co-director of the Hudson Valley Writing Project.

1/25/2014  **MISSION: MARS, Exploring Mars with Pascal Lee**  
Astronomical Society of the Pacific  
For Grades:  3rd;4th;5th;6th;7th;8th  
http://astrosociety.org/education/k12-educators/bay-area-project-astro-workshops/  
Cost  Cost: $30  
Stipend:  
Where: SETI Institute, 189 Bernardo Ave #100, Mountain View, CA

Subzero temperatures, killer rays, raging dust storms…Mars is a hostile planet. Could anything survive there? One job for Future Mars Explorers: Stay alive and help search for alien life. The mission now: start training to become one of the first human explorers of the Red Planet. Guided by renowned Mars expert Pascal Lee and educators from the Astronomical Society of the Pacific, workshop participants will get a look at what it will take to send humans to the Red Planet. They will discover how to gear up for survival, navigate a spaceship, search for alien life, and much more. Participants will also get a sneak peek at the latest designs for future Mars ships, spacesuits, and exploration rovers. The future of space exploration starts now! Bring the excitement of Mars exploration to your classroom with MISSION: MARS! Mars exploration activities in this workshop will help educators make a connection into the Next Generation Science Standards and Common Core.

1/25/2014  **Petal Pushers Workshop - Reg by 10/12/13**  
Golden Gate National Parks Conservancy  
For Grades:  3rd  
http://www.nps.gov/goga/forteachers/elementary-05.htm  
Cost  75  
Stipend:  
Petal Pushers is a signature educational program offered at the Presidio Nursery. It is a program designed by Nursery educators to connect knee-high naturalists to nature and ecology.

**February 2014**

2/8/2014  **Cool Tools X**  
East Bay Computer Using Educators  
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.ebcue.org  
Cost  $75  
Stipend:
Many hands-on labs with topics such as: FlipVideo in the Classroom, Web 2.0 networking and collaborative tools, Interactive classroom technologies, Google Apps for education, Glogster, Live Binder, and much more!

- Hear from EBCUE Grant winners and learn how to apply for a $1500 grant.
- Walk away with lesson ideas you can use to engage your students using 21st Century tools.
- Come hear classroom teachers share their tips and tricks as to how they are using technology to improve student learning.
- PRIZES! PRIZES! And more PRIZES – IPod Touch, flip video, flash drives, cameras, and more!

2/15/2014 LiMPETS Introduction to Sandy Beach Monitoring - FREE Farallones Marine Sanctuary Association
For Grades: 6th;7th;8th;9th;10th;11th;12th
http://limpetsmonitoring.org/resources_workshops.php
Cost Free Stipend: $50
San Francisco Bay area: Saturday, February 15, 2014, at the Gulf of the Farallones National Marine Sanctuary Office, San Francisco. Get involved in this exciting science education program for students. Participants receive the new 5-unit LiMPETS Curriculum and are trained to survey the distribution and abundance of the Pacific mole crab at one of many monitoring sites along the coast.

2/18/2014 Teacher Workshops Rocks and Organic Matter = Soil Math Science Nucleus
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://msnucleus.org/classes/teacherworkshop.html
Cost $15 per person (SPECIAL: first 15 teachers free*) Stipend:
Native Soil and Composting – Chemistry of soil, and how to grow natives (or why does wine grapes like volcanic soil) Learn the local rocks; receive samples, geological map, soil testing

2/22/2014 - 2/23/2014 Teacher Open House - Sleep Over Monterey Bay Aquarium
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://www.montereybayaquarium.org/lc/teachers_place/edu_program_openhouse.aspx
Cost FREE Stipend:
It's a sleepover! Join us and sleep with the fishes. Meet us for an after-hours exploration of our exhibits and to find out what’s new for teachers and students. Take advantage of this opportunity to get up-close and behind the scenes without the crowds! We’ll have guest speakers and special events throughout the evening. There will be door prizes and fun as a special “thank you” for all you do for education! You can come for just the evening or spend the night with us. This event is only open to educators. Event limited to 250 participants.
Ongoing Professional Development

Seminars on Science - Online Courses for Educators
http://learn.amnh.org/
These six-week courses developed by Museum scientists and educators incorporate the Museum's rich resources including three-dimensional virtual specimens, videos from the field, and interactive simulations. Teachers participate in discussions and activities with the Museum's scientists and educators. Continuing education units and graduate credits are available. For more information go to http://learn.amnh.org.

Online Teacher Professional Development
https://www.coursera.org/courses?cats=teacherpd
Coursera offers a wide range of courses designed for teacher professional development.

School of Professional Studies
http://ce.fresno.edu/cpd/courses/
Courses are delivered through a combination of modalities to better serve the school community's needs: printed materials and texts, audiotapes, videotapes, CD-ROM, and online distance learning. These are not on-campus courses. They may be taken any place and any time. Over 20 course offerings including: "Science for the Elementary School," "Physical Science Activities for the Primary Grades," "Astronomy: For All Ages."

Web Based Professional Development
Heinemann's webinar content is developed to help educators meet curricular standards. Live webinars deliver superior PD with no travel costs, and participants interact directly with our authors and consultants on crucial topics to enhance expertise.
* Heinemann's webinars offer a user-friendly, convenient format and the option for educators to gather as a group at school or to participate individually from home.
* Typical webinar series consist of five clock hours of streaming webcast including live discussion with the presenter, video demonstrations, presentation materials, and access to archived recordings.
* CEU credit is awarded for the completion of our webinar series.
* Individual tuition for our author-led and consultant-led webinar series is $219.00 per person. Please call for group pricing discount information.

Edspace
http://education.kqed.org/edspace/
This blog from KQED has posts of great information to take straight to your classroom. Online self-paced tutorials. Lesson ideas and more. Search the blog for the topics of your choice

Free Webinars
http://neon.psu.edu/webinars/
The NASA Educator's Online Network offers webinars for teachers on a variety of science topics and how to bring these concepts into your classroom.

NSTA Professional Development Resources
http://www.nsta.org/pd/
The NSTA Learning Center has articles on science education, webinars (live and archived), lesson plans, books lists and so much more. Some resources are free, others are only available with NSTA membership. Membership is well worth it just to get their monthly journal

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

Printed: 8/15/2013
Online Courses for Educators in the Sciences
www.scientisteacher.org
Educators can access electronic teacher resources, discuss issues with other educators online, and participate in high-quality graduate courses all from convenient home or work locations via the Internet. An average of 15 online graduate level science and science education courses are available each semester. NTEN courses are designed to help teachers improve and enhance their understanding of science content. Courses can be taken for professional development or as part of a graduate degree program.

Online Professional Development Workshops
http://www.pbslearningmedia.org/
PBS Learning Media offers free online professional development on lots of different educational topics.

PBS TeacherLine
http://www.pbs.org/teacherline/
PBS offers on-line professional development opportunities on a wide range of content areas including science. Additional graduate credit is available.
Professional Development: Customized for Your School

Your Own Design
Banana Slug String Band

Banana Slug String Band will collaborate with you to develop a workshop that fits your needs by combining concepts, songs and strategies from a wide range of material.

Wonders of Water Teacher Orientation
Bay Model Visitor Center

The teacher and field trip leader workshops are designed for the option of having their own guided tours around the model. This workshop provides knowledge about the model for their students with essential tools of preparation before their visit. This session will include the integration of hands-on activities using concepts of water quality, a tour of the model, current events, and pre-classroom activities for students. Please call for more information (415)-332-3871.

Professional Development at your School
California Academy of Sciences

Many different workshops are available to come to your school for professional development. Examples are: Sketching and Journal Keeping for the Science Classroom, Owl Pellets and Beyond, Herbivore, Omnivore, Carnivore: A study of Structure and Function

Whole School Science Professional Development
Community Resources for Science

CRS workshops are designed to help build knowledge, skills and confidence in science teaching. Our workshops are fast-paced sessions that provide teachers with techniques, resource connections, tools, and planning time. Workshops are offered to both teacher groups of ten or more and whole faculties. Whole-school workshops are offered on-site to let faculties work together as a school community to accomplish their science goals and understand student learning. We support the development of teachers who are able to plan, teach, and refine strong, subject-integrated science lessons using an inquiry-based approach to their teaching and their own professional development. Standards-based Science Lesson Planning (three 90-minute sessions), Articulated Lesson Demonstration (three 120-minute sessions), Using Internet Resources for Science (one to three 90-minute sessions), Using Inquiry to Teach Science (three 90-minute sessions), Retaining Science Knowledge (two 90-minute sessions), Understanding Student Learning (three 90-minute sessions), On-Site Science Enrichment (as requested)

Educator Workshops
Friends of the Estuary

Friends of the Estuary will work with you to design and present a tailored workshop for 10-100 educators. Workshop topics include: wetlands, endangered species, wildlife, bats, plants, Adopt a Watershed, Marine Debris, Project Learning Tree, Project Wild and Aquatic Wild, as well as new topic areas.

Environmental Education Services
Kids for the Bay

http://www.kidsforthebay.org

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

Printed: 7/12/2013
Grade level and whole faculty workshops, One-on-one support, Lesson modeling in teachers’ classrooms, Curricula, resources, and equipment. Week-Long Summer Institute for Educators, Lesson planning consultations in the following areas: Implementing a community-based student-led action project, Thematic integration, Developing and implementing critical thinking questioning strategies, Addressing the diverse learning needs of students, Teaching State Standards, Addressing the needs of English language learners. Content Options: Local Watershed Studies, Developing Action Projects, Waste Reduction and Sustainable Practices, Safe Bay Fish Consumption, Studying and Learning in the Outdoors, Point Source & Non-Point Source Pollution Reduction, Environmental Justice, Water Conservation, Scientific Process Skill Development.

Using Video and Web resources in your classroom

KQED

http://www.kqed.org/ednet/

KQED offers a wide range of professional development workshops focusing on the use of video in the classroom. They can focus on curriculum areas of your choice. Workshops can focus on making videos in the classroom or how to effectively use existing video and web resources in the classroom.

Common Core and FoSS: Building ELA Skills through Active

Lawrence Hall of Science


How is your school preparing to implement Common Core State Standards for English Language Arts? Have you considered building reading, writing, speaking, and listening skills through active science? Science is an ideal content area for students to develop the skills needed to meet the Common Core State Standards. The FOSS Leadership Team from the Lawrence Hall of Science can help you build your students’ abilities to use language effectively. Our teacher workshops are designed to provide experiences modeling the overlap between science and the ELA Common Core State Standards. FOSS workshops focus on how active science provides a rich experience for students to:

- effectively communicate in collaborative discussions.
- acquire and use academic and domain-specific vocabulary to express their thinking.
- write a variety of text, including informative, narrative, and evidence-based arguments.
- read and comprehend informational text, integrating knowledge and ideas.
- conduct research, using a variety of resources and present their knowledge clearly

Brian Campbell 510-664-4747 brcampbell@berkeley.edu or Joanna Totino 510-643-3478 jtotino@berkeley.edu

Customized Workshop

Life Lab Science Program

http://www.lifelab.org

Life Lab trainers will work with you to develop a customized workshop to meet your specific needs. Resolving issues with your garden site, working effectively with the special needs of your student population, and facilitating parent/community involvement are some of the many topics on which to focus your workshop.

Discovery Voyage on the Bay

Marine Science Institute

http://www.sfbaymsi.org

The day begins aboard the Institute’s research vessel, the ROBERT G. BROWNLEE, participating in hands-on activities that examine the fish, plankton, benthic invertebrates, and physical oceanography of an estuarine ecosystem. The afternoon is spent in our Discovery Classroom, exploring curriculum ideas and activities while developing lesson plans that bring science to your curriculum.

Custom Designed Workshop - many topics

Oakland Zoo

http://www.oaklandzoo.org

Zoo staff can design customized workshops to fit your teaching needs covering a broad range of science related subject areas. The current programs include:

- Rain Forest Review (Grades 3-8) - A closer look at essential functions of a tropical rain forest;
- Suitcase For Survival (Grades 3-12) - Learn to use the U.S. Fish and Wildlife biofacts to teach about endangered animals and the illegal wildlife trade;
- There Are Treasures At Your Zoo (Grades K-8) - Use the classic treasure hunt to learn about adaptations, habitats, and animals;
- Biodiversity (Grades 6-12) Learn what biodiversity is; the threats facing it and what you can do;
- Conservation (Grades 5-12) Learn about conservation through group activities and small group discussions taken from Project Wild.
- Habitats and Adaptations (Grade6-12) Learn about animal adaptations during a scavenger hunt in the zoo!

We’re here to help you find the science resources you’re looking for. Email us at CRS@crscience.org

Printed: 7/12/2013

Professional Development at your school
Staff Development Workshops
http://www.randallmuseum.org/

Randall Museum

Project WET (water resources stewardship), Project WILD & Aquatic WILD (wildlife), Project Learning Tree (forests and trees), and Population Education (population study, exponential growth, and demographics) workshops emphasize hands-on activities and integrated teaching strategies consistent with the New Science Standards.

RAFT Outreach Workshops
http://www.raft.net

RAFT offers a variety of hands-on science workshops for teachers. They can be scheduled at your school. Topics include - THE POWER OF HANDS-ON TEACHING, On The Move: Science Workshops: (Catch a Wave, A Model Science Class, Let's Mix Things Up, Attractive Science! Exploring Magnetism). Price includes teaching kits

Teacher Training/Team Building - Physical Sciences
http://www.rockitscience.org

Rock-It Science

Teachers, learn to do Rock-it Science lessons yourself. Our group experiments also make great team building/diversity training activities. We'll customize a program to suit your needs. Pick from a wide variety of Physical Science topics (Matter, Energy, Chemistry, Force and Motion, Simple Machines, Electricity). Maximum: 40 teachers Price: $250/hr, minimum 3 hrs

Group Workshops
http://www.sfzoo.org

San Francisco Zoo staff is available to present workshops on Biodiversity, Animal Behavior, and other Zoo topics for already organized groups.

Teaching the 4Rs - Reduce, Reuse, Recycle & Rot/Compost
http://www.stopwaste.org

StopWaste.org

Gain valuable skills in leading your students through classroom activities that demonstrate the 4Rs: Reduce, Reuse, Recycle and Rot/Compost while teaching science concepts and ways to reduce waste and conserve natural resources. During the two-day workshop, teachers will experience and analyze activities from a new Teacher Guide; Doing the 4Rs, A Classroom Activity Guide to Teach Reduce, Reuse, Recycle and Rot. In addition to a copy of the activity guide, participants will also receive videos and other and hands-on classroom materials that support teaching activities from the guide.

Private Workshops
http://www.thewatershedproject.org

The Watershed Project

One or multiple day workshops can be scheduled with different focuses. Teachers can choose to receive professional development in watershed educational standards, or learn to apply curriculum units to local environments. Facilitators can also demonstrate a field study or mapping with students.

Using Technology to Meet California State Standards!
http://www.tomsnyder.com

Tom Snyder Productions

This software training bundle includes 1 full-day workshop in which teachers learn to: (1) evaluate how different software, Internet activities, and lesson plans correlate to state frameworks, (2) find, evaluate, and utilize Internet sites that support teaching objectives, (3) align software and Internet resources with state standards in K-8 Math, Science, Social Studies, and English Language Arts. Workshops can be tailored to meet your Internet and computer in the classroom needs.

School Site Specific Trainings
http://botanicalgarden.berkeley.edu/

UC Botanical Garden

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

Printed: 7/12/2013

Professional Development at your school
Teacher Grants:  Specific Deadlines

October 2013

10/1/2013  Fund for Teachers Grants OPEN - Oakland & San Francisco Teachers
Fund for Teachers
$5000-7500  http://www.fundforteachers.org/apply/california.php
Application available October 1.  Apply on-line.  Oakland USD and San Francisco USD  Money for professional development

10/1/2013  Grants for K-5
Toshiba America Foundation
$1000  http://www.toshiba.com/taf/k5.jsp
Eligible projects must: advance the teacher’s science and math K-5 education, occur during the school day, take place over at least three class sessions, not be based solely on the purchase of a pre-packaged kit, and be completed by May 1st.

10/1/2013  Learning & Leadership Grants
The NEA Foundation
Grant support public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education for one of the following two purposes: Grants to individuals fund participation in high-quality professional development experiences, such as summer institutes or action research; or Grants to groups fund collegial study, including study groups, action research, lesson study, or mentoring experiences for faculty or staff new to an assignment.

10/1/2013  Field Trip Grants - Deadline to apply
Target
$700  https://targetfieldtripgrants.target.com/rules.php
May be used to fund trips ranging from visits to art museums and environmental projects to cultural events and civic experiences.  Apply on-line.  The Earlier you apply in the fall the better

10/1/2013  Student Achievement Grants
The NEA Foundation
$5000  http://www.neafoundation.org/pages/nea-student-achievement-grants/
Proposed work should engage students in critical thinking and problem solving that deepen their knowledge of standards-based subject matter, and should also improve students’ habits of inquiry, self-directed learning, and critical reflection. Proposals for work resulting in low-income and minority student success with honors, advanced placement, or other challenging curricula are particularly encouraged.

10/1/2013  America's Home Energy Education Challenge - Open
National Science Teachers Association
10,000+  http://www.homeenergychallenge.org/Default.aspx
America's Home Energy Education Challenge (AHEEC), a national student competition administered by NSTA for the Energy Department was created to help families save money by saving energy. Participation in AHEEC will be broken into two parts: the Home Energy Challenge and the Energy Fitness Award. Each is designed to encourage students to learn about science and home energy savings, and participants can chose one or get involved with both. All students from 3rd to 8th grade are eligible to enter for both parts. For the Home Energy Challenge participating student teams will monitor and measure their energy consumption over a three-month period between September 2013 and February 2014, and compare it to data from the same period the year before. Competing schools and classes will compete within 11 regions for more than $60,000 in prizes that will be distributed at the regional and national levels of the competition.

10/15/2013  The Lorrie Otto Seeds for Education Grant Program
Wild Ones
funds to purchase native plants
http://www.for-wild.org/seedmony.html
The Lorrie Otto Seeds for Education Grant Program gives small monetary grants to schools, nature centers, and other non-profit and not-for-profit places of learning in the United States, including houses of worship, with a site available for a stewardship project.

10/15/2013  Lowe's Toolbox for Education Grant
Lowe's Charitable & Education Foundation
$5000
http://www.toolboxforeducation.com/
Lowe's Charitable and Educational Foundation is focusing on basic, one-time project needs. In 2012, basic needs will take priority.

10/15/2013  NAREN Grants for Program Support
National At-Risk Education Network
$250
http://www.atriskeducation.net/naren-grants/
The grant is a needs-based grant. Supplies, equipment, field-trip expenses, paying for resource people to come into the school to work with students, curricular materials are all viable categories of expenditures. The program for which funds are requested must be strictly for at-risk youth, and not a program receiving special education funding. The applying educator must be a NAREN associate.

10/15/2013  Class materials
TeacherList.com
$125 in supplies
http://www.teacherlists.com/makeover
Schools that post a total of 20 school supply lists or teacher wish lists (new or updated for 2013-2014) on TeacherLists.com between April 1, 2013 and October 15, 2013 will automatically receive a FREE School Supply Stash containing $125 of supplies to share with their teachers, while supplies last!

10/18/2013  Educator Grants
Air Force Association
$250
http://www.afa.org/AFA/InformationFor/Teachers/EducatorGrants
The Educator Grant program promotes aerospace education activities in classrooms from kindergarten through twelfth grades. The program encourages development of innovative aerospace activities within the prescribed curriculum.

10/31/2013  Mickelson ExxonMobil Teacher Academy
National Science Teachers Association
all expenses
http://nstahosted.org/mickelson/
The Teacher Academy for is 3rd-5th grade teachers to learn more about mathematics and science. The Academy is a summer camp for teachers to do math and science experiments that they can later use in the classroom.

November 2013

11/1/2013  Environmental Education Grants
The Lawrence Foundation
$5000
http://www.thelawrencefoundation.org/grants/

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Printed: 9/26/2013
Grants to support environmental, education, human services and other causes. Interests are diverse and may lead into other areas on an occasional basis.

11/1/2013

**American Honda Foundation Grant**

American Honda Foundation

$20,000-75,000


We support youth education with a specific focus on the STEM (science, technology, engineering and mathematics) subjects in addition to the environment.

11/1/2013

**Whale Tail Grants Program**

California Coastal Commission, Public Education Program

$500-$50,000

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

The grants support programs that teach California’s children and the general public to value and take action to improve the health of the state’s marine and coastal resources. Adopt-A-Beach programs, as well as other beach maintenance and coastal habitat restoration projects that have an educational component, are also eligible for these grants. This grants program focuses on reaching communities that are currently poorly served in terms of marine and coastal education.

11/8/2013

**Shell Science Teaching Award**

National Science Teachers Association

$10,000 and Expenses to attend NSTA conference

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

Award recognizes one outstanding classroom science teacher (K–12) who has had a positive impact on his or her students, school, and community through exemplary classroom science teaching. Award: $10,000 and a paid trip to attend NSTA’s National Conference; two finalists will also receive paid trips to the conference

11/30/2013

**Faraday Science Communicator Award**

National Science Teachers Association

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

Expenses to attend NSTA conference

The individual will not be a classroom teacher, but will work in a museum, nature center, zoo, state park, aquarium, radio, television, internet, or other science-rich institutions or media. The individual may also be connected to a science setting through involvement with groups such as preK child-development centers, 4-H clubs, Girl and Boy Scouts, Girls and Boys Clubs of America. Organizational—The organization will facilitate and provide exemplary opportunities for science communication to the public. The organization will desire to instill in the public an appreciation for science through communication efforts at the local, state, and national levels. Award: Honored at the Awards Banquet during NSTA National Conference; up to $2,500 to attend the Conference;

11/30/2013

**Delta Education/Frey-Neo/CPO Science Awards for Excellence in Inquiry-based Science Teaching**

National Science Teachers Association

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

$1500

Recognizes and honors three (3) full-time PreK–12 teachers of science who successfully use inquiry-based science to enhance teaching and learning in their classroom. Award: $1,500 towards expenses to attend the NSTA National Conference, and $1,500 for the awardee

11/30/2013

**Maitland P. Simmons Memorial Award for New Teachers**

National Science Teachers Association

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

Expenses to attend NSTA conference

This award for New Teachers provides selected K–12 teachers (up to 25) in their first five years of teaching with funds to attend the annual National Conference on Science Education. Award recipients will be mentored, tracked, and provided with continuing opportunities for meaningful involvement with NSTA and its activities. Eligibility: a teacher must be within the first five years full-time and be an NSTA member in good standing; to the extent possible, recipients must have been a student member of NSTA as a preservice teacher. Award: The award consists of up to $1,000 to be used to attend the annual National Conference.

11/30/2013

**Sylvia Shugrue Award for Elementary School Teachers**

National Science Teachers Association
Award honors one elementary school teacher who has established (or is establishing) an interdisciplinary, inquiry-based lesson plan. Eligibility: Elementary school teachers (grades K–6); applicants must be a full-time teacher with a minimum of five years of experience. Award: The award consists of $1,000 and up to $500 to attend the NSTA National Conference. Recipient will be honored during the Awards Banquet at the NSTA Conference.

11/30/2013
Vernier Technology Awards
National Science Teachers Association
http://www.nsta.org/about/awards.aspx
Awards will recognize and reward the innovative use of data collection technology using a computer, graphing calculator, or other handheld in the science classroom. A total of seven awards are presented: one award at the elementary level (grades K–5); two awards at the middle level (grades 6–8); three awards at the high school level (grades 9–12); one award at the college level.

11/30/2013
Distinguished Teaching Awards
National Science Teachers Association
http://www.nsta.org/about/awards.aspx
This award honors NSTA members who are teachers that have made extraordinary contributions to the field of science teaching. Eligibility: K–college-level teachers. Award: Formal citation, three nights’ hotel accommodation, and $500 toward expenses to attend the NSTA National Conference.

11/30/2013
Bright Ideas Grant
PG&E
http://pge.need.org/
$1,000-10,000
Grants will be given to schools for outstanding solar energy education projects.

11/30/2013
Wendell G. Mohling Outstanding Aerospace Educator Award
National Science Teachers Association
http://www.nsta.org/about/awards.aspx
This award recognizes excellence in the field of aerospace education. Individuals nominated for this award and have a minimum of three years teaching experience. Self-nominations will be accepted. Award: $3,000, and $2,000 in expenses to attend NSTA’s national conference.

11/30/2013
Distinguished Service to Science Education Awards
National Science Teachers Association
http://www.nsta.org/about/awards.aspx
These awards honor NSTA members who have made extraordinary contributions to the advancement of education in the sciences and science teaching. Eligibility: NSTA members who have shown long-term dedication to science education. Award: Formal citation, three nights’ hotel accommodation, and up to $500 towards expenses to attend the NSTA National Conference.

11/30/2013
Fuel Your Schools Grant
Chevron
http://www.fuelyourschool.com/Markets/bay-area/
Project from October 2 - November 30. Available to teachers in Alameda and Contra Costa Counties. Chevron is funding teacher projects posted on DonorsChoose.org. See the "Fuel Your Schools" web page for more details.

11/30/2013
NSTA Fellow Award
National Science Teachers Association

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Printed: 9/26/2013
This award recognizes NSTA members who have made extraordinary contributions to science education through personal commitment to education, specifically science teaching or science; educational endeavors and original work that position recipients as exemplary leaders in their field; significant contributions to the profession that reflect dedication to NSTA as well the entire educational community. This award is open to longstanding (at least 10 years) NSTA members. Awardees will be recognized at the NSTA Awards Banquet at the NSTA National Conference.

11/30/2013  Distinguished Informal Science Education Award
National Science Teachers Association

This award honors one NSTA member who has made extraordinary contributions to the advancement of science education in an informal or nontraditional school setting, such as a science-technology center, museum, or community science center. Eligibility: NSTA members who are not classroom teachers and who have demonstrated their dedication to informal science education. Award: Formal citation, hotel accommodation, and $500 towards expenses to attend the NSTA National Conference.

December 2013

12/1/2013  PITSCO/Hearlihy/FTE Grant
International Technology Education Association

$2000  http://www.iteaconnect.org/Awards/granthearlihy.htm
Criteria include: (1) evidence of an effective quality technology and engineering education program, (2) documented success in the integration of technology and engineering education with other academic subjects, and (3) plans for professional development via the anticipated grant. Applicant must be an ITEEA member and register for the ITEEA Annual Conference. (Membership may be enclosed with scholarship application).

12/1/2013  The Bauder Endowment for the Support of Physics Teaching
American Association of Physics Teachers

$500  http://www.aapt.org/Programs/grants/bauderfund.cfm
Supports activities for AAPT members, such as workshops at the local level, that promote physics education utilizing physics apparatus. Funds can purchase equipment and materials used by participants in the workshop. Does not reimburse indirect or administrative costs.

12/15/2013  Career Development Grants
American Association of University Women

$2,000-12,000  http://www.aauw.org/learn/fellowships_grants/career_development.cfm
Career Development Grants support women who hold a bachelor's degree and are preparing to advance their careers, change careers, or re-enter the workforce. Special consideration is given to women of color, and women pursuing their first advanced degree or credentials in nontraditional fields. Grants provide support for course work beyond a bachelor's degree, including a master's degree, second bachelor's degree, or specialized training in technical or professional fields. Funds are available for distance learning.

12/20/2013  Shell Science Lab Challenge
National Science Teachers Association

$20,000  http://www.nsta.org/shellsciencelab/
Are you succeeding in science lab instruction with minimal equipment? The Shell Science Lab Challenge gives you an opportunity to share your exemplary approach for a chance to win a school science lab makeover support package valued at $20,000! Over $93,000 in lab makeover prizes to be awarded to 18 schools!
# Teacher Grants: Rolling or Continuous Deadlines

<table>
<thead>
<tr>
<th>Teacher wishlist</th>
<th>Adopt-A-Classroom Grants</th>
<th>Adopt-A-Classroom</th>
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<tbody>
<tr>
<td>Register your public school classroom online. This site pairs you with people who want to give money to your classroom to support your teaching.</td>
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<thead>
<tr>
<th>$250</th>
<th>AIAA Classroom Grants</th>
<th>AIAA Foundation</th>
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</thead>
<tbody>
<tr>
<td>DEADLINE 30 days before quarterly meetings in JAN, MARCH, JUNE, SEPT. Funding for materials needed to teach: a. Aerospace Technology; b. Biological and Physical Research; c. Earth Science; d. Human Exploration and Development; e. Space Science</td>
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<thead>
<tr>
<th>Approximate value - $1000</th>
<th>Amy Chamberlain Scholarship Fund</th>
<th>Bay Area Wilderness Training</th>
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<tbody>
<tr>
<td>Each scholarship provides full tuition to BAWT’s Wilderness Leadership Training (WLT), as well as additional post-course support including site visits by BAWT staff during the 12 months following WLT participation. Must apply one month prior to the class you desire to take.</td>
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<tr>
<th>discount bus rental rate</th>
<th>Black Tie Community Bus</th>
<th>Black Tie Transportation</th>
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<tbody>
<tr>
<td>Bus is offered to non-profit organizations and to schools to transport children ages K-12 for school outings. The bus is available at a discounted rate to those who apply in advance and meet the requirements of the application process. Seating: Grades K-4, 60 passengers (3 adults required) Grades 5-12, 42 passengers (2 adults required) Rates // $75.00 per hr (5 hour min.)</td>
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<tr>
<th>$2500</th>
<th>California Casualty Academic Award</th>
<th>California Casualty</th>
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<tr>
<td>Enter to win $2500 to cover your out of pocket expenses</td>
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<tr>
<th>computer hardware</th>
<th>Classroom Computers</th>
<th>Computers for Learning</th>
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<tbody>
<tr>
<td>Schools register and request equipment on the Computers for Learning web site. Federal agencies match their surplus equipment to schools with those needs. Computers and equipment are not refurbished by the government before being shipped to schools, nor are they covered by warranty.</td>
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<tr>
<th>technology</th>
<th>Digital Wish List</th>
<th>Digital Wish</th>
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<tbody>
<tr>
<td>Site offers a place for teachers to create a technology wish list. Individuals can then go in to grant these wishes.</td>
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<table>
<thead>
<tr>
<th>$100-1000</th>
<th>Classroom Wishlist</th>
<th>DonorsChoose.org</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teachers describe classroom needs. Contributors decide where they want to put their money. Many corporations including Disney, Chevron, and Horace Mann are now using DonorsChoose.org as the way they give away money to education.</td>
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<tr>
<th>$500</th>
<th>Do Something Seed Grants</th>
<th>DoSomething.org</th>
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We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Register your school to take part in the challenge! Get your friends to sign up too. Browse projects ideas for your school to tackle to increase recycling, save energy, promote green agriculture, and more! Report back on your completed projects to be judged by a panel of celebrity and expert judges!

Bring the challenge home! You don’t have to just green your school, you can green your home too!

<table>
<thead>
<tr>
<th>discounted bus</th>
<th>Parks Express Transportation Services</th>
<th>East Bay Regional Park District</th>
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<tbody>
<tr>
<td></td>
<td><a href="http://www.ebparks.org/activities/educators/trips#parkeX">http://www.ebparks.org/activities/educators/trips#parkeX</a></td>
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<tr>
<td></td>
<td>Discount buses ($110) for fieldtrips to East Bay Regional Parks. Schools must have at least 30% of students in Free or Reduced Lunch Program. 40 passengers minimum. They start making assignments in December for the coming year. Apply ASAP even for programs in fall. Need not have naturalist program pre-arranged. They will help coordinate with naturalist program</td>
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$100 to $500 | Funds for Outdoor Field Trips | Field Trip Foundation |
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<tr>
<td><a href="http://www.fieldtripgroup.org/for_teachers.html">http://www.fieldtripgroup.org/for_teachers.html</a></td>
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<tr>
<td>Grants for outdoor environmental education field trips for grades 3 - 5. Grants are provided to teachers in Bay Area schools with a majority of low-income students. Grants range from $100 to $500, but exceptional grants may be approved up to $1000. Grants with a lower cost per student will be more favorably evaluated. Can be used for program or bus fees.</td>
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Varies | Education Grant Database | GrantWrangler |
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<tr>
<td><a href="http://www.grantwrangler.com/">http://www.grantwrangler.com/</a></td>
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</tr>
<tr>
<td>Check out this website for all types of grants for classrooms</td>
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</tbody>
</table>

$500 in materials | Classroom Wishlist | iLoveSchools.com |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td><a href="http://www.iloveschools.com/">http://www.iloveschools.com/</a></td>
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<tr>
<td>Register your school with I Love Schools.com. The site matches you up with people wanting to donate equipment to your school</td>
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$1000-$5000 | Education Grants | Kinder Morgan Foundation |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td><a href="http://www.kindermorgan.com/community/km_foundation_guidelines.cfm">http://www.kindermorgan.com/community/km_foundation_guidelines.cfm</a></td>
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</tr>
<tr>
<td>Due the 10th of each month. Academic programs, including tutoring; Arts education programs; Environmental education programs that work with local schools and meet curriculum standards</td>
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$500-$5000 | The LEGO Children’s Fund | LEGO Children's Fund |
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<tbody>
<tr>
<td><a href="http://www.legochildrensfund.org/Guidelines.html">http://www.legochildrensfund.org/Guidelines.html</a></td>
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<tr>
<td>Areas of support: 1) Early childhood education and development that is directly related to creativity. 2) Technology and communication projects that advance learning opportunities. Awarded quarterly. Can NOT use funds to buy LEGOS.</td>
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$1000 for fieldtrips | Excursion Grant - Alameda County | Philanthropic Ventures Foundation |
<table>
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<tbody>
<tr>
<td><a href="http://venturesfoundation.org/programs/teacher-grants/excursion-grants-program">http://venturesfoundation.org/programs/teacher-grants/excursion-grants-program</a></td>
<td></td>
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<tr>
<td>Grants of up to $1,000 to fund classroom excursions; funds can cover the cost of transportation, admission fees and food. Public school teachers for grades K-5, Alameda and San Mateo counties can apply for grant funding</td>
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up to $2500 | After School Grant Program - Oakland Schools | Philanthropic Ventures Foundation |
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<tbody>
<tr>
<td><a href="http://venturesfoundation.org/programs/teacher-grants">http://venturesfoundation.org/programs/teacher-grants</a></td>
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<td></td>
</tr>
<tr>
<td>Who: Alum Rock, East Side Union High, Franklin-McKinley, Oakland and Redwood City school district teachers grades 6-12th are eligible to apply. There is a limit of two grants per school each school year. Teachers are encouraged to come up with new ideas for after school programs. Grants up to $2,500 are available to cover costs of equipment, teacher time, and/or refreshments.</td>
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Teacher Grants - Rolling Deadlines
<table>
<thead>
<tr>
<th>Free science boards and more</th>
<th>Science Project Support Application</th>
<th>Synopsys Outreach Foundation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="http://www.outreach-foundation.org/cgi-bin/other_cc1.cgi?c=Alameda">http://www.outreach-foundation.org/cgi-bin/other_cc1.cgi?c=Alameda</a></td>
<td>In order to assist as many teachers at as many schools as possible the foundation is limiting requests for science project poster boards to a maximum of 100 boards per teacher and a maximum of 300 boards per school.</td>
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<tr>
<td></td>
<td>• Each teacher may request: up to 100 science project poster boards (maximum 300 per school), up to 300 round, adhesive &quot;I Did It&quot; stickers, up to 5 &quot;science-o-rama&quot; event posters</td>
<td></td>
</tr>
<tr>
<td>Varies</td>
<td>Grants for Teachers</td>
<td>Teacher Planet</td>
</tr>
<tr>
<td>$5000 of less</td>
<td>Mini-Grants For Grades 6 - 12</td>
<td>Toshiba America Foundation</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.toshiba.com/taf/612.jsp">http://www.toshiba.com/taf/612.jsp</a></td>
<td>Wanted: Classroom Innovators! Toshiba America Foundation is accepting applications from teachers who are passionate about making science and mathematics more engaging for their students. Do you have a wish list of instructional equipment that will make learning more exciting for your students?</td>
</tr>
<tr>
<td>$5000</td>
<td>Education Grants</td>
<td>Wells Fargo Foundation</td>
</tr>
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<td></td>
<td><a href="https://www.wellsfargo.com/about/charitable/ca_guidelines">https://www.wellsfargo.com/about/charitable/ca_guidelines</a></td>
<td>Rolling Deadline. San Francisco Bay Region accepts grant proposals from January through October 31st. Supports educational programs promoting academic achievement by low- to moderate-income students in the key areas of: Math and science; Literacy; History of the American West</td>
</tr>
</tbody>
</table>
Temporary & New Science Exhibits Around the Bay Area

Bay Area Discovery Museum
Sausalito http://www.badm.org

Native Voices: New England Tribal Families
(September 28 - January 5, 2013) Don’t miss your chance to toboggan down a winter hill, learn about daily life at the Nuweetoung Tribal School, and explore a natural cranberry bog on Martha’s Vineyard! Experience these activities and many more in the new exhibit Native Voices. Explore five thriving New England communities as they work to balance cultural traditions with life in a modern world. Native Voices: New England Tribal Families was produced by Boston Children’s Museum. All underlying materials, including all artwork and the use of Native Voices characters, are used with permission of Boston Children’s Museum. It is sponsored nationally by Ocean Spray™ and the National Endowment for the Humanities™.

Bay Area Science
http://www.bayareascience.org/

Bay Area Science Festival 2013
(October 24 to November 2, 2013) - 3rd Bay Area Science Festival Returns 10 Days. 50 Events. We’re coming back this year - bigger and better than ever! Our full schedule of events will be released later this fall - rest assured there will be plenty of new events alongside many of returning favorites. We’ll also be announcing some new large performance events early this summer. In the meantime, be sure to save the date!

Bay Model Visitor Center
Sausalito http://www.spn.usace.army.mil/bmvc

BayWood Artists on the Bay: A Salute to America’s Cup – Art Exhibit
(October 4 - 26, 2013) - This year, the Bay Model and BayWood Artists are partnering to salute & celebrate the America’s Cup. BayWood Artists, a group of distinguished Bay Area plein air painters, is dedicated to preserving the environment for future generations to enjoy. Their paintings depict the beauty, diversity and charm of the San Francisco Bay Area, with special emphasis on boating and the excitement of the Cup competition. Funds raised from sales at this exhibition will benefit the Bay Model Education Program, which provides comprehensive learning resources for children and adults. www.BayWoodArtists.org

California Academy of Sciences
San Francisco http://www.calacademy.org

The Last Reef 3D: Cities Beneath the Sea – Film
(through November 25, 2013) The Last Reef 3D: Cities Beneath the Sea– Don a pair of 3D glasses and fly across iridescent tropical reefs, brush through a cloud of a thousand jellyfish, visit an alien world where the tiniest creatures support the greatest predators. The Last Reef will take you on a breathtaking journey to these cities beneath the sea, which are as vital to life on Earth as the rain forests. Daily at: 11:00am, 12:00pm, 1:00pm, 2:00pm, 3:00pm, and 4:00pm

Human Odyssey
(NEW Exhibit) Did you know that humans almost went extinct 90,000 to 70,000 years ago? Learn about that close call, and the milestones which dot our species’ evolutionary history as you explore the origins of humanity. Following the clues that scientists use to investigate our past, you’ll discover why the 7 billion people on the planet today are much more alike than you might think. Highlights of Human Odyssey include:

* Faces from the past: Examine the skull casts of three early human species, then watch as fleshed-out reconstructions of their faces appear using “Pepper’s Ghost” optical illusion technology.
* Walking with Lucy: Compare the distinctive gaits of a chimpanzee, Australopithecus afarensis (the species of the famous “Lucy” skeleton), and a modern human.
* Interactive migration map: Use touchscreen stations to trace our species’ migration from its African origins—one which spanned thousands of years and countless generations.
* Academy research: Learn about the work of noted Academy anthropologist Dr. Zeray Alemseged, introduced below.

Chabot Space and Science Center
Oakland http://www.chabotspace.org

Touch the Sun
Sunspots... Magnetism... Solar Storms! Bask in the light of our Sun in all its electromagnetic glory - but beware of its explosive nature! Explore awe-inspiring real-time images from space; get hands-on with sunspots, magnetism and solar storms; and see how the Sun’s bluster touches us here on Earth.

Children’s Creativity Museum
San Francisco http://creativity.org/

Sense It
New Exhibit: Sense It is an interactive, multi-sensory experience designed in partnership with Adobe for 0-5 year-olds. As children dance, play, and explore the space, the pressure sensitive floor detects movement and the LED wall responds with sounds and images. Come experience it in our Imagination Lab.

Exploratorium
San Francisco http://www.exploratorium.edu

Comfort Zone
(October 22, 2013 – January 31, 2014) Participatory exhibit in collaboration with choreographer Benjamin Levy of LEVYdance. How do we navigate social boundaries, and how do they shape who we are? What choices do we make when interacting with others, and how does that affect our intimacy with each other? The Exploratorium and San Francisco-based dancer and choreographer Benjamin Levy explore the nuances of social boundaries with Comfort Zone, a new participatory installation which integrates choreography into a virtual, interactive experience, exploring themes of group dynamics, choice, and social boundaries. Comfort Zone will debut October 22, 2013, in the Black Box in the museum’s West Gallery, a space devoted to experimenting with social interaction and exploring the interplay between science, society, and culture.

Fine Arts Museums of San Francisco
San Francisco

The Bay Bridge: A Work in Progress, 1933–1936
(February 1, 2014 - June 8, 2014) - Celebrating the completion of the new eastern span of the San Francisco–Oakland Bay Bridge (scheduled for September 2013), this exhibition presents a newly acquired group of photographs by Peter Stackpole (1913–1997) documenting the bridge’s original construction in the 1930s—the first works by this important Bay Area photographer to enter the Museums’ collection. Scaling the dizzying heights of the unfinished structure over the course of three intense years, this young photographer moved freely among the construction workers, telling their story of death-defying labor in a series of striking photographs that record one of the most ambitious public works projects in California history. In the midst of the Great Depression, many artists were drawn to the spectacular site, inspired by the bridge’s modern engineering, to capture its bold industrial forms and commemorate the heroism of the American workforce. This exhibition juxtaposes Stackpole’s photographs with prints and drawings of the Bay Bridge construction by his contemporaries, many of whom earned their living under the auspices of San Francisco’s Federal Art Project. Artists include Dong Kingman, Otis Oldfield, Arthur G. Murphy, George Booth Post, and John Stoll. The exhibition also features a small selection of original studies from the firm of renowned San Francisco architect Timothy Pflueger, who contributed to the design of the original Bay Bridge.

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Temporary Exhibits
Wildlife Rescue
(September 28 to January 5, 2014) — Enter the fascinating world of Wildlife Rescue, an eye-opening, inspiring and wildly interactive exhibit. Take a Trip Into the Wild. Animals and habitats all over the Earth are endangered. Get to know some of these species by joining them and the scientists working for their protection on a survival journey—from the recovery center and back into the wild.

Legion of Honor
San Francisco http://legionofhonor.famsf.org/

Darren Waterston: A Compendium of Creatures
(March 30, 2013 - December 29, 2013) - This exhibition showcases the portfolio A Swarm, A Flock, A Host: A Compendium of Creatures, 12 color aquatints by noted artist Darren Waterston and text plates featuring a poem by award-winning writer Mark Doty. The portfolio, a contemporary version of a medieval bestiary, was commissioned by the Achenbach Graphic Arts Council (AGAC), in support of the art acquisitions program of the Achenbach Foundation for Graphic Arts, the Fine Arts Museums of San Francisco’s prints and drawings department. The bestiary is a literary and illustrative form in which a number of known animal species, as well as mythological creatures, are catalogued encyclopedically. As a genre, the medieval bestiary constituted a natural history of creation that frequently included moralizing allegories, with the animal kingdom providing apt symbols for human behavior. In this modern bestiary Waterston depicts silhouetted animal and plant forms in emotionally charged configurations meant to be as menacing as they are playful. “As Mark’s extraordinary poetry took form,” Waterston has said, “I painted in response, inspired by his words though not directly illustrating them.”

Lindsay Wildlife Museum
Walnut Creek http://www.wildlife-museum.org

The Burrow
New Exhibit - opening this summer.  How do animals survive in a world of darkness? Go “underground” and find out in The Burrow.  Learn about animals that spend much of their lives beneath the Earth’s surface—burrowing owls that hunt by day, ground squirrels that engineer complex tunnels, moles, toads, tarantulas, gophers, snakes, salamanders and ants that scurry and dig through the habitat below our feet. Kid-friendly rhyming text introduces The Burrow’s animal models and the special lives and adaptations of underground species.

Monterey Bay Aquarium
Monterey http://www.mbayaq.org

Sea Otter Exhibit Re-Opened
Enjoy the antics of playful southern sea otters as they romp, tumble and wrestle like their brethren in the bay. On the second floor of the exhibit you can watch them swim at the surface, while first-floor windows give an underwater view of their lively acrobatics.

Oakland Museum of California
Oakland http://www.museumca.org

Natural Sciences Hall Re-Opens
(Opens May 31, 2013) - The focus of the new gallery is on California’s unique status as a region of extreme biological and geological diversity—a global biodiversity "hotspot"—which harbors the nation's highest species' richness, as well as some of the most imperiled habitats on the planet. In addition to its rich diversity, part of what makes California a "hotspot" is the human population pressures that have rendered it one of the most ecologically degraded states in the country. In order to protect our natural environments, we first must encourage people to see themselves and their communities within the natural world. Therefore, the goal for the new gallery is to encourage a compelling connection to place, an understanding of the issues facing the natural environment, and a sense of urgency for sustainability.

Peter Stackpole: Bridging the Bay - California Photography
(July 19, 2013 - January 12, 2014) - Featuring stunning black-and-white photographs chronicling the original San Francisco-Oakland Bay Bridge and Golden Gate Bridge construction in the 1930s by American photographer Peter Stackpole.

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Printed: 9/26/2013
Above and Below: Stories of Our Changing Bay  
(August 31, 2013 – February 23, 2014) Presented on the occasion of the opening of the San Francisco-Oakland Bay Bridge’s (SFOBB) new East Bay span, Above and Below: Stories of Our Changing Bay explores the dynamic stories of how the residents of, and visitors to, the San Francisco Bay Area have shaped and been shaped by the Bay over the last 6,000 years. The first major exhibition to be presented with all three of OMCA’s renovated galleries of California Art, History, and Natural Sciences complete and open to the public, this multidisciplinary exhibition highlights historic and contemporary place-based stories about the Bay, and engages viewers in discussions about the Bay’s future. Through an extensive use of media featuring oral histories, community voices, and interactives, the exhibition explores how human engineering and natural forces have come together over time to shape and reshape the land and water around the San Francisco Bay, and how sea-level rise, wetlands restoration, invasive species, and climate change are central topics in determining the future of the Bay.

San Francisco Zoo  
San Francisco  
http://www.sfzoo.org

Big Bugs: Outside the Box  
(September 27, 2013 - January 12, 2014) - In the Pachyderm Building  
The world of insects is all around us. Cleverly camouflaged or flamboyant in their displays, the diminutive size of bugs leaves them largely unnoticed. Important to science and necessary in the natural world, their unexpected artistry and beauty is often only apparent under a magnifying glass ... until now. At Big Bugs: Outside the Box, butterflies with five-foot wingspans and four-foot long beetles stare you square in the eye. Giant sculptures, each showcasing the beauty hidden within the mini-beasts of the natural world, turn the tables on how we see bugs.

SF Botanical Garden & Strybing Arboretum  
San Francisco  
http://www.strybing.org

Conifers and Cones by G. Lee Boerger  
(Sept. – Dec., 2013) 20+ Years of Science and Art  
The Helen Crocker Russell Library of Horticulture is pleased to present an exciting new exhibit by artist and friend of the Garden, G. Lee Boerger, Conifers and Cones: 20+ Years of Science and Art. Through works in printmaking, acrylic on canvas and panels and colored pencil, Lee celebrates the venerable conifer, including images from approximately 30 specimens.

The Tech Museum of Innovation  
San Jose  
http://www.thetech.org

Star Wars: Where Science Meets Imagination  
(October 19, 2013 - February 23, 2014)  
Tickets on sale now. Journey into that galaxy far, far away that has captivated audiences for more than 30 years. This is your last chance to see the blockbuster science and technology exhibition that brings to life one of pop culture’s most successful franchises. This 10,000-square-foot exhibition explores the futuristic technologies depicted in the Star Wars® films: -- the real science behind them, and the research that might someday lead to real-life versions of the technologies seen in the series. See more than 80 authentic costumes, models, and props from all 6 Star Wars® films plus interactive exhibits and design labs related to real-world technologies. Defy gravity, manipulate robots, engineer droids, and lots more in the exhibition that makes its final stop on its international tour at The Tech Museum of Innovation.

UC Botanical Garden  
Berkeley  
http://botanicalgarden.berkeley.edu/

Foods of the Americas Exhibition and Tours  
(October 1-18, 2013) Bring your class to tour the UC Botanical Garden’s Foods of the Americas exhibition. Explore our educational marketplace, Tropical House, and Crops of the World Garden. Learn about crops domesticated by ancient farmers in the Americas. Book your tour by September 15, the earlier the better... tours book up fast!