



Orange County CREEC

<http://www.creec.org/region9b/>

Volume 3, Issue 3

October 2005

Hidden Question

Congratulations to Dr. Roxanne Greitz Miller, an Assistant Professor in the School of Education at Chapman University, who was the first to answer the September Hidden Question. She chose to donate her **Bats** book to her science education students. Congratulations as well to Jenny Ahlgrim, Alicia Cordova, Rose Calderon who participated and each were given a valuable curriculum guide!

Embedded within the text of this newsletter, there is a hidden question. The first educator (classroom or non-formal) who contacts Helen at 714-708-3889 or HdelaMaza@ocde.us with the correct answer to the hidden question **will receive the book Weird Nature: An astonishing exploration of nature's strangest behavior, by John Downer.** This 152-page book has fantastic close-up photographs, and amazing information about weird things in nature - for instance, the Surinam toad whose young hatch under the membranous skin of the female and break free when grown into tadpoles! Inspire and freak out your students with this interesting information!

Let us know what you think! In an effort to evaluate your needs, please fill out the online survey by going to <http://www.creec.org/region9b/> and clicking on the survey link.

Thank You! ❁

Coordinator Communications: Hurricane Katrina

Our deepest condolences and supportive thoughts go to those affected by Hurricane Katrina. According to Edutopia News, "U.S. Education secretary Margaret Spellings estimates that Hurricane Katrina has displaced at least 372,000 students from the Gulf Coast. There's no indication yet, however, as to how school districts and states are going to pay for the sudden influx of new students — or the mammoth rebuilding effort that lies ahead. In Louisiana, nearly 500 schools have been closed; in Mississippi, 226 schools are shut down and almost 30 have been completely destroyed."

With the widespread media attention about the hurricane, as with the tsunami in December 2004, comes students' curiosity to learn more. This situation provides educators with the opportunity to integrate multiple disciplines, from science to language arts, to answer students' questions. High school and college students may be interested in exploring the topic from an environmental/social justice perspective.

See "Rad Resources" on page 4 for links to online lesson plans and information about hurricanes.

-Helen ❁

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This newsletter is a monthly publication of the California Regional Environmental Education Community (CREEC) Network in Orange County. The CREEC Network is administered by the **California Department of Education**, Environmental Education Program, in partnership with numerous agencies. In Orange County, CREEC is housed by the **Orange County Department of Education** and OCDE's *Inside the Outdoors* (<http://www.insidetheoutdoors.org>).

The information included is compiled from a variety of sources, including NSTA Express, EE-NEWS@NAAEE, CREEC, Information Exchange for Marine Educators, Energenius, Project Learning Tree, GLEF Edutopia News, and others.

Who is Orange County CREEC?

In Orange County (Region 9B), CREEC is administered by the Orange County Department of Education's *Inside the Outdoors* program.

Helen de la Maza is the Coordinator and **Pam Johnson** is the Authorized Agent. This academic year, the Region 9B budget, which is based on state and local funding, will enable Helen to work for 40 days on CREEC.

The CREEC Advisory Committee, that provides support and guidance to the Coordinator, consists of the following dedicated individuals:

Maureen Allen - Orange County Department of Education

Donna Bennett - CSU Fullerton

Winter Bonnin - California State Parks

Laura Cohen - The Donna O'Neill Land Conservancy

Frank Dela Vara - Disneyland Resort

Candice Dickens-Russell - Earth Resources Foundation

Cathy Glasgow - City of Anaheim Community Services

Bo Glover - Environmental Nature Center

Pam Johnson - Inside the Outdoors, Orange County Department of Education

Meg Jones - Pacific Marine Mammal Center

Patrick Mitchell - Santa Ana Parks, Recreation and Community Services Agency

Terresa Moritz - City of Newport Beach, Utilities Department

Dave Raetz - Inside the Outdoors, Orange County Department of Education

Nona Reimer - Teacher, John Malcom School

Jennifer Rigby - The Acorn Group, Inc.

Melanie Schlotterbeck - Santa Ana River Watershed Alliance

Valorie Shatynski - CA Integrated Waste Management Board

Sue Winterhoff - Ocean Institute

Janet Yamaguchi - Discovery Science Center

Kent Yamaguchi - Santa Ana Zoo at Prentice Park

Rainbow Yeung - South Coast Air Quality Management District

We are looking for more Teachers and Providers to join the team! If you are interested, contact Helen de la Maza at HdelaMaza@ocde.us ☼



Website Highlights

The Orange County CREEC website is full of great information and resources!

Information on <http://www.creec.org/region9b/>
From Orange County's home page, you can access the following using the navigation bar on the left of the screen:

Calendar - Find out what's going on in O.C.! These programs may be suitable for your students, your own professional growth, or your families and the general public.

Newsletters - Current and archived newsletters.

Workshops and Classes and Conferences and Symposia - Both of these web pages have information on local, national, and on-line programs that may be valuable to Educators.

Funding Opportunities - Need some money to create a garden at your school? Want to help the students raise money to attend a field trip? Look here for a variety of options. Grants for Providers are also listed.

Student Contests - Involve your students in contests in which they learn in a fun and competitive atmosphere.

Volunteers Wanted - Looking for something to do in your off-time? Maybe your students need to fulfill community service hours check this link for opportunities.

FAQ - Confused by the Resource Directory? Come here for help.

Providers - This page contains information that is especially relevant to EE Providers in O.C.

Feedback - Have a comment, suggestion, or question? Use this link to e-mail Helen at HdelaMaza@ocde.us

The Resource Directory can also be accessed from the Region 9b website. This amazing searchable database, with a total of 3,000 records, will help you find curriculum, field trips, teacher kits, and much more! You can narrow the search by region or county, grade level, science topic, and more. Click on "Resource Directory" in the navigation bar on the left side of <http://www.creec.org/region9b/> ☼

Training Time!

Ocean Institute (Dana Point) Teacher Workshops
http://www.ocean-institute.org/edu_programs/teacher_events.html

Enjoy two complimentary ocean-themed events:

October 6; 6:00 PM or 7:30 PM: James Cameron's 3-D IMAX film Aliens of the Deep (presented by Walt Disney Pictures and Walden Media)

October 8; 10:00 AM - 3:30 PM: Teacher Celebration Day at the Ocean Institute

Orange County Department of Education

Inside the Outdoors Teacher Workshop

October 20, 2005; 4:00 PM - 6:00 PM

Location: Rancho Soñado (off of Santiago Canyon)

For information or to RSVP: Contact Helen de la Maza at HdelaMaza@ocde.us or 714-708-3889

Fourth and fifth grade teachers are invited to attend this informational and hands-on workshop. Learn about the standards-aligned fourth and fifth grade programs offered through *Inside the Outdoors*, and experience a Traveling Scientist program about water called "Drip Drop." Teachers will receive curriculum and a \$25 stipend.

Fifth Grade Test Preparation Series

October 20 and November 3, 10 and 17, 2005;

4:00 PM - 7:00 PM at O.C. Dept. of Ed.

Cost: \$150/person which includes the 5 O.C. Dept. of Ed. Hands-on Mini-Science Units that are correlated to the adopted textbooks.

Registration Deadline: October 17, 2005

Fifth Grade: "Periodic Table of the Elements" videoconference at several districts

October 11, 2005; 4:00 PM - 5:00 PM

Fourth Grade Test Preparation Series

October 25 and November 1 and 15, 2005;

4:00 PM - 7:00 PM at O.C. Dept. of Ed.

Cost: \$120/person which includes Key Vocabulary Lists and O.C. Dept. of Ed. Hands-on Mini-Science Units that are correlated to the adopted textbooks.

Registration Deadline: October 20, 2005

For more information or to register, call Maureen Allen at 714-966-4468.

National Science Teachers Association

<http://institute.nsta.org/tier2.asp>

At NSTA's website, science educators can browse online courses for science educators.

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Great Grants & Cool Contests

Jiminy Cricket's Environmental Challenge for 5th Grade Students

<http://www.jceckids.org>

800-290-0299

Registration Deadline: October 15, 2005

This program provides an opportunity for your class and all other 5th grade classes in the State of California to "think green." The purpose is to encourage students to think and act environmentally at school, at home and in their communities.

The program is the result of a unique partnership between The Walt Disney Company, the California Environmental Education Interagency Network, the U.S. Fish & Wildlife Service and the U.S. Environmental Protection Agency.

The teacher and students determine their degree of participation; students may take a pledge to do something that will help the environment and, if they choose, may enter the Class Project Competition, where they target a real-world environmental problem, then develop and implement an action plan to address it.

Disney Teacher Awards

<http://disneyhandteacherawards.go.com/>

Nomination Deadline: October 15, 2005

Disney is accepting nominations for America's most creative pre K-12 teachers. Nominations can be made online or by phone (877-282-8322). Four honorees will be selected as outstanding teachers, and one will be named the 2006 Disney Teacher of the Year. Winners will receive cash and attend a professional development institute.

K-12 Teacher Award Focuses on Eye Health and Vision

<http://www.nsta.org/vsp>

Deadline: October 15, 2005

NSTA is partnering with Vision Service Plan (VSP), to offer a unique new award. The VSP "Vision of Science" Award will recognize one classroom science teacher who has developed creative and innovative science lessons that encourage students to learn and understand eye health and vision. The winning teacher will receive \$2,500, which includes travel expenses to attend the NSTA National Convention in Anaheim, April 6- 9, 2006. The winning teacher's school will also receive a \$3,000 check to be used to further the study, teaching and learning about eye vision and health.

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Rad Resources

Education Planet: Quality Web Resources for Students and Teachers

<http://www.educationplanet.com/hurricane.html>

This site has a searchable database of thousands of lesson plans. The web page above includes a compilation of lessons about hurricanes, natural disasters, the media, and more for grades K-12.

Education World: The Educator's Best Friend

http://www.educationworld.com/a_lesson/lesson/lesson076.html

This site has a large variety of lesson plan links and information about hurricanes.

Lesson Plans 4 Teachers

<http://www.lessonplans4teachers.com/hurricane.php>

Links to hurricane lesson plans.

Community Learning Network

(a site designed to help K-12 teachers integrate technology into the classroom)

<http://www.cln.org/themes/hurricanes.html>

Links to hurricane lesson plans and background information.

Handle a Hurricane (grades 7 - 12)

<http://weathereye.kgan.com/lounge/plans/hurricane.html>

Information about hurricanes from the **National Oceanic and Atmospheric Administration**

<http://www.nws.noaa.gov/om/hurricane/index.shtml>

National Hurricane Center

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

Take a **virtual field trip** to learn about hurricanes:

<http://www.field-trips.org/sci/hurricane.index.htm>

National Geographic's Forces of Nature: Hurricane

<http://www.nationalgeographic.com/forcesofnature/interactive/index.html?section=h>

Hurricane Storm Science (elementary)

<http://www.miamisci.org/hurricane/>

Hurricane! (grades 6 - 8)

<http://school.discovery.com/lessonplans/programs/ragingplanet-hurricane/>

Hurricane Lesson Plan (grades 6-10)

<http://www.nationalgeographic.com/xpeditions/lessons/07/g35/trythishurricane.html>

Resources from the Sea Grant Ocean Sciences Education Center:

Haunted by Hurricanes

http://www.vims.edu/bridge/index_archive1004.html

Access National Hurricane Center data to examine long-term hurricane patterns and questions regarding the impact of global climate change.

Hurricanes!

http://www.vims.edu/bridge/index_archive0899.html

Basic background information about hurricane formation is featured in this activity, along with introductory hurricane mapping tips.

Hurricane Andrew Lessons

<http://octopus.gma.org/surfing/weather/andyindex.html>

Hurricane Fran Lessons

<http://octopus.gma.org/surfing/weather/franindex.html>

NOAA's National Geodetic Survey - images!

<http://alt.ngs.noaa.gov/katrina>

Global Security

<http://www.globalsecurity.org/military/facility/new-orleans-imagery.htm>

Hurricane Help for Schools

<http://hurricanehelpforschools.gov/index.html>

If your school is serving students displaced by the hurricane and if you need books, clothes, or other supplies, please state what you need. The name of your school, its address, and what you need will be posted on the "See what schools need" page.

If you are a company, an organization, or an individual looking to send books, clothes, or other supplies to a school serving students displaced by Hurricane Katrina, please state what supplies you can provide. The supplies you can provide, along with your organization's name and contact information, will be posted on the "See what organizations can give" page. *(continued on page 5)*

Rad Resources *(continued from page 4)*

Our Wetlands, Our World Activity Guide - FREE! High School Guide based on Upper Newport Bay

<http://www.coastforyou.org> (click on "Coastal Restoration" on the link on the left hand side)

This new high school activity guide is available from the California Coastal Commission. It addresses subjects such as the natural history of wetland habitats, water quality and pollution, and wetlands stewardship. The activities are aligned to California State Content Standards. Our Wetlands, Our World is free online or by contacting Project Coordinator Matt Yurko at 949-640-0286 or myurko@coastal.ca.gov

October is Energy Awareness Month!

Department of Energy Kid's Page

<http://www.eia.doe.gov/kids/>

Riddles, puzzles, a coloring book, and other kid-oriented materials for teaching about energy are engagingly presented.

NEED Project

<http://www.need.org/energyawarenessmonth.html>

Especially for grades K-4, the National Energy Education Development (NEED) Project has put together an exciting collection of classroom activities and materials.

U.S. Department of Energy

http://www.eere.energy.gov/femp/services/energy_aware.cfm

A variety of promotional and informational materials is available for free from the Department of Energy, including a poster for the classroom. From this page you will find links to a history of National Energy Awareness Month, tips on how to save energy, and the online "Energy Savers Consumers Guide."

Enviro DVDs from Green Planet

<http://www.greenplanetfilms.org>

Green Planet Films is a non-profit distributor of eco-related films seeking to "preserve and protect our planet by educating the public about the science, beauty, and fragility of the natural world." DVDs are from around the globe, covering topics such as recycling, urban sprawl, wildlife, endangered species, pollution, and more. For information, contact

suzanne@greenplanetfilms.org

California Coastal Commission

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

This is the web site for the public education program of the California Coastal Commission. The "For Youth" page includes "Watershed Game," "Discover Humpback Whales," "Explore the World of the Kelp Forest," information on marine debris, and much more.

The Rainforest Project

<http://rainforests.pwnet.org>

Join U.S. Forest Service experts on a FREE distance learning adventure to America's Rain Forests. Join scientists, researchers, and students and explore the tropical rain forest in the Caribbean National Forest in Puerto Rico and the temperate rain forest in Alaska and the Pacific Northwest. The live electronic broadcast will be on **October 14, 2005 at 10:00 AM PST.**

National Oceanic and Atmospheric Administration (NOAA) National Marine Sanctuaries

<http://marinelife.noaa.gov/>

This is a new online resource that highlights the diverse marine life of America's ocean and Great Lakes treasures. This online field guide provides photos, streaming video and important biological information for over 100 marine species from each of the national marine sanctuaries in the United States.

For the hidden question, go to the Resource Directory from <http://www.creec.org/region9b>. In the second search box, enter the following: Orange, 5th grade, Field Trip. The results will show various field trips available to students in Orange County (some of the Providers are located outside of Orange but do serve this county). Take note of one program that is in Orange County. Do a second search of your choice and take note of two programs that peak your interest. Send an e-mail to HdelaMaza@ocde.us or call 714-708-3889 with the results of your first and second search (for a total of three programs). The first educator who does this will receive the book *Weird Nature*. Other participants will receive curriculum as a thank you for participating.



Great Grants and Cool Contests *(continued from page 3)*

State Farm Good Neighbor Service-Learning Grant

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

Applicants: Teachers, youth (ages 5-25) and school-based service-learning coordinators

Deadline: October 17, 2005

One hundred \$1,000 grants, funded by the State Farm Companies Foundation, are available from Youth Service America for teachers, youth (ages 5-25) and school-based service-learning coordinators to implement service-learning projects for National Youth Service Day, April 21-23, 2006. State Farm Good Neighbor Service-Learning Grants enable youth and educators to bring the positive benefits of service-learning to more young people across America. Service-learning is a teaching method that combines meaningful service with curriculum or program-based learning. Schools and organizations use service-learning as a tool to help youth build stronger academic skills, foster civic responsibility and develop leadership skills.

Shell Science Teaching Award

<http://www.nsta.org/shell>

Application Deadline: November 15, 2005

The Shell Oil Company annually recognizes one K-12 science teacher from a public or private school. The award is given to a teacher who has had a positive impact on his or her students, school, and community, through outstanding science teaching. The winner is awarded \$10,000 and an all-expenses-paid trip to the National Science Teachers Association national convention.

Presidential Award for Reading and Technology

http://www.reading.org/association/awards/teachers_presidential.html

Application Deadline: November 15, 2005

This award, sponsored by PLATO Learning, recognizes K-12 teachers who are making an outstanding and innovative contribution to the use of technology in reading education. Regional, national, and international winners will be selected.

National Science Teachers Association Teacher Awards

http://www.nsta.org/awardscomp/&program_type=teacher

This web page provides links to teacher awards and student competitions.

2006 Arbor Day National Poster Contest: "Trees are Terrific...in All Shapes and Sizes!"

<http://www.arborday.org/kids/postercontest/>

Deadline: March 1, 2006

A free curriculum kit explaining how to conduct the annual Arbor Day poster contest is now available. This contest activity is open to all California fifth grade children assisted by their teachers, parents, youth or club leaders. The kit contains suggestions for activities and projects that will increase student awareness and appreciation of the importance of trees and conservation of forests. The contest theme for 2006 is "Trees are Terrific...in All Shapes and Sizes." These activities are correlated to California's science standards! To request a kit, contact Kay Antunez, contest coordinator, California Department of Forestry and Fire Protection at 916-653-7958 or Kay.Antunez@fire.ca.gov

Leaf-It-To-Us

<http://www.ufe.org/files/grantinfo/>

Deadline: On-going

The California Department of Forestry and Fire Protection is pleased to announce the availability of a tree planting grant program designed for school kids to improve their school environments. The maximum grant is \$3,000 with a minimum of \$500. The award must be spent on the purchase of trees and supplies necessary to improve the learning environment of school student campuses through California's school environments. For more information, email Glenn.Flamik@fire.ca.gov

Outdoor Classroom Grant Program

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

[lkn?action=pg&p=AboutLowe/outdoor/index.html](http://www.lowes.com/lowes/lkn?action=pg&p=AboutLowe/outdoor/index.html)

Deadline: Varies

Lowe's Charitable and Educational Foundation, International Paper and National Geographic Explorer! classroom magazine have partnered to create an outdoor classroom grant program to provide schools with additional resources to improve their science curriculum by engaging students in hands-on experiences outside the traditional classroom. The program will award grants up to \$2,000 to at least 100 schools. In schools/districts with major outdoor classroom projects, up to \$20,000 may be awarded. ❁

Training Time! (continued from page 3)

Project WET Workshops

Project WET is an international, water science and education program for formal and non-formal educators of K-12 students. The activity guide is offered at all workshops. It contains over 90 activities that have been correlated to the state standards. All the activities are innovative, interdisciplinary, hands-on, easy to use, and fun. Go to <http://www.watereducation.org> for more information.

October 18 and 25, 2005; 4:00 PM - 7:30 PM

Location: Ocean Institute, Dana Point

Sponsored By: Orange County Stormwater Program; Municipal Water District of Orange County and Discovery Science Center

Contact: Lisa Ball 949-768-1600 or

lball@faubelpublicaffairs.com

October 20 and 27, 2005; 4:00 PM - 7:30 PM

Location: Discovery Science Center, Santa Ana

Sponsored By: Orange County Stormwater Program; Municipal Water District of Orange County & Discovery Science Center

Contact: Lisa Ball 949-768-1600 or

lball@faubelpublicaffairs.com

Discovery Science Center's Teacher Training

Teachers' Open House Every First Monday of the Month; 4:30 - 6:30 PM.

This educational event includes a guided tour of the exhibits and a hands-on, science workshop. This year, the hands-on workshops will focus on science content that will facilitate an understanding of the concepts addressed on the 5th grade science test and most commonly misunderstood science concepts. Call 714-913-5012 for more information.

October 3, 2005: Plant structures & design; photosynthesis; plant respiration

November 7, 2005: Digestive system; kidney and urinary tract; tooth design

December 5, 2005: Water sources; water movement; forms of water

January 9, 2006: Chemical reactions; chemical and physical properties

February 6, 2006: Ecosystems; plant & animal design; interconnections

March 6, 2006: Electricity; circuits; magnetism; electromagnets

April 3, 2006: Sun and weather; convection currents

May 8, 2006: Constructing and interpreting charts, graphs, and diagrams

Discovery Science Center's Teacher Training

(continued)

Digital Lab: Saturday Photoshop for Teachers

Fee: \$30. Call 714-542-2823 ext. 5153 for more information or go to <http://www.digilab.org>

Sign up for one of these dates:

October 8 or 22, 2005; 9 AM - 12 PM

November 12, 2005; 9 AM - 12 PM

January 14, 2006; 9 AM - 12 PM

Santa Ana students may become members of the Digital Lab and participate in FREE programs after school and on the weekends.

Professional Development ~ Water Education Course (5th – 8th Grade Teachers)

During this standards-based course, learn integrated science concepts, such as: the chemistry of water; water sources, retrieval, purification, and usage; human impact on water; and water conservation. Teachers receive kits of resource materials valued at \$250 for the students to use to conduct experiments and activities in the classroom. These resource materials include chemical test kits for measuring nitrates, phosphates, pH, and dissolved oxygen, as well as other science-based materials and equipment ~ enough free supplies for up to 200 students.

Classes are held from 4:30 to 7:50 PM. (A light dinner is provided.)

Sponsored by the Municipal Water District of Orange County

Course Dates: November 9, 16 & December 7, 2005

Sponsored by Orange County Project Pollution Prevention

Course Dates: January 12, 19, and 26, 2006

Call 714-913-5012 soon to take advantage of this FREE educational enrichment program ~ enrollment is required, and limited.

Online Courses through the National Teachers Enhancement Network at Montana State University - Bozeman

<http://www.scienceteacher.org/courses.htm>

The World of Motion, November 18, 2005

Cost: \$235 (tuition and materials).

The Science of Sound, November 18, 2005

Cost: \$270 (tuition and materials).

Elementary Weather, October 24 - December 9

Cost: \$280 (tuition and materials). ☼

Provider Perspectives

This new section of the newsletter is specifically for naturalists, docents, interpreters, and any other staff of Environmental Education and Science Education Providers.

Santa Ana Zoo Ambassador Volunteer Training Class

On the weekends, the Zoo Ambassadors share the zoo's conservation message through hands-on artifact carts, activity stations, live animal encounters, public presentations, and other guest interactions. The next Zoo Ambassador training class **begins Saturday, October 8**. Please call Alison Coviello at 714-647-6568 for more information.

Train to be a Zoo Volunteer Education

If you like sharing the wonders of the animal kingdom with children, the Docent Program at the Santa Ana Zoo is for you. Docents guide school tours, assist with our traveling outreach program, and lead live animal encounter presentations weekday mornings. For more information, call Alison Coviello at 714-647-6568. The class **starts Tuesday, October 4** and will meet Tuesday and Thursday mornings for five weeks from 9:00 AM - 12:00 PM.

OC WILD Presents "Docent Days"

October 15, 2005; 8:00 AM - 2:30 PM

Cost: \$10 registration fee (includes lunch)

Contact Winter Bonnin (949-497-7647 or crystalev@fea.net) by October 7 to reserve your spot!

This event is for docents, trail guides, naturalists, and interpreters who want to hone their skills. Attend up to three, 1.5 hr. sessions.

The Association for Environmental and Outdoor Education's (AEOE) Fall Conference

November 4 - 6, 2005 (Friday evening through Sunday 12:00 PM)

Location: Camp Highland Outdoor School near Cherry Valley

Registration Fee: \$30 + \$15 membership (Workshop Presenters get in FREE!)

Registration Deadline: October 21, 2005

You will have the opportunity to attend workshops, develop interpretive skills, learn about local ecology, camp for two nights or stay in the outdoor school cabins, and enjoy a delicious Saturday dinner.

Go to <http://www.aeoe.org/conference/fall/2005/southern.html> for details and to download a registration form. For details, contact Helen de la Maza at delamazah@earthlink.net

Engaging the Public through Communication and Social Science

<http://www.biodiversityproject.org/publications.htm>

The Biodiversity Project brings us *Breakthrough Strategies for Engaging the Public: Emerging Trends in Communications and Social Science*. This working draft white paper provides an introduction to some emerging trends in the fields of communications and social science that could benefit public education, engagement, and awareness campaign planners. Drawing from a variety of resources, this paper attempts to address the challenges faced when communicating about biodiversity and our environment.

NAAEE Offers Environmental Education Resource Reviews

<http://naaee.org/pages/resourcereview/index.html>

NAAEE is offering a new service to materials and program developers. Receive constructive feedback on your resources from a panel of reviewers trained in using NAAEE's EE Materials: Guidelines for Excellence. ❁



Exciting Environmental & Science Education Events: Halloween Highlights and More!

Native California Plant Sale

October 1; 9:00 AM - 3:00 PM

Location: Shipley Nature center, Huntington Central Park.

<http://www.fsnc.org>

Lecture: Southern California Tidepool Life

October 12, 2005; 7:00 PM

<http://www.acornnaturalists.com>

Lecture by Marty Rigby at Acorn Naturalists in Tustin (155 El Camino Real).

California Native Plant Society, Orange County Chapter: Native Plant Sale

October 15, 2005; 10:00 AM - 3:00 PM

For information: sbjayne@cox.net

Location: UCI Arboretum on the corner of Jamboree and Campus in Irvine

Fall Faire & Pumpkin Patch at the Environmental Nature Center

October 16, 2005; 10:00 AM - 3:00 PM

Information: 949-645-8489

Enjoy children's activities, purchase native plants, take a tour of the Nature Center, buy a pumpkin, and much more!

Butterfly Garden Planting

October 22, 2005; 9:00 AM - 3:00 PM

Information: 949-509-4787

Help plant over 600 butterfly host and nectar plants in the butterfly garden at the Upper Newport Bay Interpretive Center.

California Science Teachers Association Conference in Palm Springs

October 27 - 30, 2005

<http://www.cascience.org>

Boo at the Zoo Halloween Festival

October 22, 23, 28, and 29; 5:30 PM - 8:00 PM

Cost: \$8/nonmembers; \$5/members

714-953-8555 x 12; <http://www.santaanazoo.org/>

The Santa Ana Zoo will feature frightfully fun educational programs, storytelling, live animal encounters and trick-or-treat stations.

Orange County Water District Offers Free Water Education Class

October 26, 2005; 6:00 PM - 8:00 PM

OCWD; 10500 Ellis Avenue; Fountain Valley

Register: 714-378-3217

The class will teach residents about the looming global water crisis, how water affects health,

California's unique water situation, what the future holds for water supplies in Orange County and what water agencies are doing to help conserve available water resources.

Points of Light Youth Leadership Institute Train-the-Trainer Seminar

October 26-28, 2005 in Santa Ana

Registration Fee: \$495 (includes all program materials, and breakfast and lunch each day)

For information: 800-750-7653, ext. 8151

E-mail PYLI@PointsofLight.org

Hosted in partnership with Volunteer Center Orange County. The Points of Light Youth Leadership Institute is a state-of-the-art training program designed to teach leadership and community service skills to high school-age youth. This national training seminar certifies participants to implement this unique service and leadership curriculum that equips young people to make meaningful contributions to their communities and begin a life-long journey of leadership and service.

Halloween New Moon Walk & Campfire at the Environmental Nature Center

October 28; 5:30 PM - 7:00 PM

Cost: \$3/participant.

RSVP: 949-645-8489

As the sun sets, we'll walk through the Center, listen for owls and feel the silken touch of spider webs brush our faces. Bring a picnic dinner to enjoy around the campfire.

Halloween at the Orange County Zoo!

October 29; 10:00 AM - 2:00 PM

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

Activities include: spooky children's crafts & face painting, see the zoo animals receive treat-filled pumpkins, trick-or-treating at the zoo exit.

Howlin' Canyon at Oak Canyon Nature Center

October 29, 2005, check-in 1 - 2 PM, ages 2 - 10

Cost: \$8.50/participant (pre-registration required)

714-998-8380; <http://www.anaheim.net/ocnc>

Many hands-on activities will be available! ☼



Organizations Offering School Programs

*(If you have problems with a program's contact information,
please notify Helen de la Maza at HdelaMaza@ocde.us or 714-708-3889).*

Amigos de Bolsa Chica
Huntington Beach 92649-3596
714-840-1575
<http://www.amigosdebolsachica.org/>

Audubon's Starr Ranch Sanctuary
Trabuco Canyon 92679
949-858-0309
<http://www.starr-ranch.org>

Camp High Trails Outdoor Science
School
Angelus Oaks 92305
909-936-3240
<http://www.camphightrails.com>

Camp Highland
Cherry Valley 92223
909-572-2020
<http://www.camphighland.net/>

Crystal Cove State Park
Laguna Beach 92651
949-497-7647
<http://www.crystalcovestatepark.com>

Discovery Science Center
Santa Ana 92705
714-542-2823
<http://www.discoverycube.org>

Dr. Sue's Traveling
Arthropods/Metamorphosis
Enterprises
Tustin 92781-0395
714-731-2040

Earth Resource Foundation
Costa Mesa 92627
949-645-5163
<http://www.earthresource.org>

Environmental Nature Center
Newport Beach 92663
949-645-8489
<http://www.ENCenter.org>

Friends of Shipley Nature Center
Huntington Beach 92647
714-842-4772
<http://www.fsnc.org>

Mt. Baldy Environmental Education
Mt. Baldy Village 91759
909-982-2879
[http://www.r5.fs.fed.us/angeles/visit
or/mtbaldyinfo.htm](http://www.r5.fs.fed.us/angeles/visit/or/mtbaldyinfo.htm)

Municipal Water District of Orange
County
Fountain Valley 92728
714-593-5017
<http://www.mwdoc.com>

O'Neil Regional Park
Trabuco Canyon 92678
949-858-9365
<http://www.ocparks.com>

Oak Canyon Nature Center
Anaheim 92805
714-998-8380
<http://www.anaheim.net/ocnc>

Ocean Institute
Dana Point 92629
949-496-2274
<http://www.ocean-institute.org>

Orange County Coastkeeper
Newport Beach 92663
949-723-5424
<http://www.coastkeeper.org>

Orange County Department of
Education, Inside the Outdoors
Costa Mesa 92628
714-708-3885
<http://www.insidetheoutdoors.org>

Orange County Fair-Centennial
Farm
Costa Mesa 92626
714-708-1618
<http://www.ocfair.com>

Orange County Outdoor Science
School
Mentone 92359
909-389-0820
<http://www.insidetheoutdoors.org>

Orange County Zoo
Orange 92862
714-633-2022
<http://www.ocparks.com/oczoo>

Pacific Marine Mammal Center
Laguna Beach 92651
949-494-3050
<http://www.pacificmmc.org>

Pathfinder Ranch
Mountain Center 92561
951-659-2455
<http://www.pathfinderranch.com>

Planetary Science Institute
Laguna Niguel 92677
949-495-4949
<http://www.psi.edu>

Rancho Santa Ana Botanic Garden
Claremont 91711-3157
909-625-8767
<http://www.rsabg.org>

Santa Ana Zoo
Santa Ana 92701-5001
714-647-6575
<http://www.santaanazoo.org>

Santa Catalina Island Conservancy
Avalon 90704
310-510-0954
<http://www.catalinaconservancy.org>

Santiago Oaks Regional Park
Orange 92869
714-973-6620
<http://www.ocparks.com>

Sea and Sage Audubon Society
Irvine 92612
949-261-7963
<http://www.seaandsageaudubon.org>

Sierra Club's Orange County Inner
City Outings
Los Angeles 90010-1904
714-964-4488
<http://angeles.sierraclub.org/ico/>

The Donna O'Neill Land
Conservancy
San Juan Capistrano 92675
949-489-9778
<http://www.theconservancy.org>

The Lizard Wizard
Canyon Lake 92587
909-244-9068
<http://www.theassemblydirectory.com/lizard.htm>

The Nature Conservancy and
Orange County Wild
Irvine 92602
714-832-7478
<http://www.tnccalifornia.org>

The Nature Conservancy, Irvine
Ranch Land Reserve
Irvine 92602
714-832-7478
http://www.tnccalifornia.org/our_projects/irvine/

Thousand Pines Outdoor School
Crestline 92325
909-338-8900

Back Bay Science Center/Upper
Newport Bay
Newport Beach 92660
949-923-2293
<http://www.ocparks.com/unbic>

Windows-On-Our-Waters
Santa Monica 90403
310-829-1229
<http://www.windowsonourwaters.org>

Wonders of Wildlife, Inc.
Fullerton 92838
714-992-4969

Future Scientists and Engineers of
America (FSEA)
<http://www.fsea.org/>



Please note: This may not be a comprehensive list of all of the science and environmental education providers in the county. For more resources, go to <http://www.creec.org/region9b/> and click on "Resource Directory."

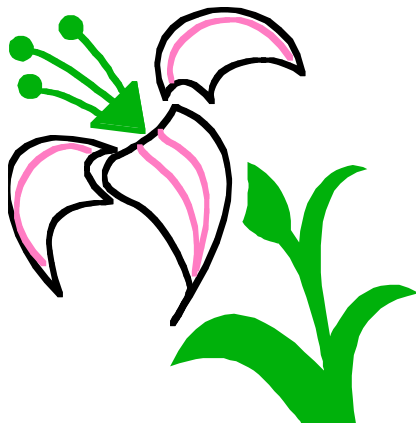
Other useful websites that include information about Orange County Providers are:

Orange County WILD: <http://www.orangecountywild.org>

Celebrate Science: <http://www.celebratescience.org>

Project Tomorrow: <http://www.tomorrow.org>

Orange County Harbors, Beaches, and Parks: <http://www.ocparks.com>



Exciting Environmental & Science Education Events!

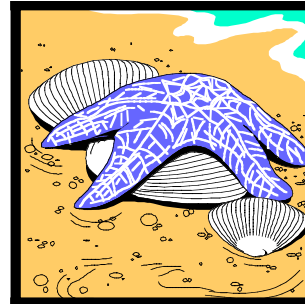
Local Event Calendar

Acorn Naturalists

155 El Camino Road
Tustin, CA 92780
Open Monday - Saturday; 10:00 AM - 5:00 PM
<http://www.acornnaturalists.com>

Southern California Tidepool Life

October 12, 2005; 7:00 PM
This is part of the Natural History Lecture Series.



California Native Plant Society

Questions: Sarah Jayne 949-552-0691
<http://www.ocnps.org>

Native Plant Sale at UCI Arboretum (in Irvine on the corner of Campus and Jamboree)

October 15; 10:00 AM - 3:00 PM

Everyone is welcome to purchase native plants to plant in their gardens. You will have the chance to speak with knowledgeable folks who can help you identify which native plants will work in your garden.

General Meeting: Speaker to be announced

October 20; 7:30 AM

Meet at the Irvine Ranch Water District headquarters (15600 San Canyon Ave., Irvine)

Crystal Cove State Park

8471 Pacific Coast Highway (PCH)
Laguna Beach CA 92651
949-497-7647

Backcountry Hike: October 1, 9, 16, 23; 9:00 AM

Meet at El Moro Visitor Center (from PCH turn inland at the stoplight "School-State Park").

Mind, Body, & Spirit Hike: October 2; 8:00 AM

Meet at El Moro Visitor Center (from PCH turn inland at the stoplight "School-State Park").

Astronomy Night: October 8; 7:00 PM or 7:30 PM (call for confirmation of time)

Meet at El Moro Visitor Center (from PCH turn inland at the stoplight "School-State Park").

Historic District Walk: October 8; 10:00 AM

Enjoy an informative walk through the historical cottages of Crystal Cove. Meet at the Los Trancos parking lot near the trailer (from PCH turn inland at the stoplight "Los Trancos").

Tidepool Walk: October 16; 9:00 AM

Meet at Pelican Point parking lot #2 at the top of the boardwalk (from PCH turn coastward at the stoplight "Newport Coast," take a right after the kiosk and the left at the first lot).

Geology Walk: October 22; 8:30 AM

Meet at the Los Trancos parking lot near the trailer (from PCH turn inland at the stoplight "Los Trancos").

Halloween Night (Bike) Ride: October 28; 6:00 PM

This bike ride will take participants into Crystal Cove State Park and the Laguna Coast Wilderness Park. Fee is \$5/person. For more information or reservations, contact Robin Lemonds at rlemonds@socal.rr.com

Exciting Environmental & Science Education Events!

Local Event Calendar

Crystal Cove State Park *(continued)*

Plant Identification Hike: October 29; 9:00 AM

Meet at El Moro Visitor Center (from PCH turn inland at the stoplight "School-State Park").

Environmental Nature Center

1601 16th Street

Newport Beach, CA 92663

<http://www.ENCenter.org>

All programs listed below require reservations, call 949-645-8489

Little Naturalists - Bodacious Bats: October 13; 10:00 AM - 11:00 AM

Join us for this parent and child playtime with a bat theme! We'll read "Stella Luna" and make a bat craft. We'll learn all about how bats AREN'T scary - just in time for Halloween! Enjoy hands-on fun for 3-5 year olds. Cost is \$5/child. Call 949-645-8489 for reservations.

Fall Fair & Pumpkin Patch: October 17; 10:00 AM - 3:00 PM

Join us for an ENC annual tradition! Enjoy live music, food, crafts, games, a silent auction and an opportunity drawing. Pick out your favorite pumpkin, buy native plants, explore the Center on a scavenger hunt, and see our new butterfly house! No reservations necessary. Call for more information.

Little Naturalists - Spooky Spiders: October 24, 10:00 AM - 11:00 AM

Join us for this parent and child playtime with a spider theme! We'll read "The Very Busy Spider" and make a spider craft. We'll learn all about how spiders Aren't scary - just in time for Halloween! Enjoy hands-on fun for 3-5 year olds. Cost is \$5/child. Call 949-645-8489 for reservations.

Irvine Open Space Programs

To register or for information, go to <http://www.irvineopenspace.org> or call 949-724-6738. Programs are FREE but pre-registration is required.

Cardio Hike (Course #29646)

October 1; 8:00 AM – 10 AM. Meet at the Turtle Rock Nature Center.

Get your blood pumping and enjoy the outdoors. This fast paced hike will take you into Irvine's Open Space to explore local wilderness areas. Maximum distance is 8 miles and includes some steep sections. Recommended for ages 12+.

Mountain Bike Ride (Course #29657)

October 1; 8:30 AM – 11 AM

Load up your mountain bike and join us on this moderate to advanced ride into the Open Space from Bommer Canyon. We'll venture into Irvine's urban wilderness on a docent led ride. Distance is approximately 11 miles. Participants must wear a helmet and possess above-average mountain biking skills. Recommended for ages 16+.

Explorers Club (Course #29649)

October 7; 9:30 AM – 11:30 AM

Enjoy the outdoors this season by exploring Irvine's Open Space. Join our trained staff for an interpretive and fitness hike in Bommer Canyon. Bring a lunch to enjoy after the hike. The Explorers Club is a great way to explore nature, meet new people and have lots of fun. Ages 16+.

Exciting Environmental & Science Education Events!

Local Event Calendar

Irvine Open Space Programs (continued)

Full Moon Hike (Course #29650)

October 15; 8:30 AM - 10:30 PM

Come explore Bommer Canyon in the beauty of a full moon. Discover the habitat needs of bats, owls, raccoons, coyotes, and other nocturnal creatures while in search of their sights and sounds. Hike distance is 2 miles; ages 10+.

Fall Migration Hike (Course #29652)

October 16; 8:00 AM - 10:30 AM

Stroll through Bommer Canyon in search of migratory birds heading south for winter! A trained docent will assist in identification and will offer background. No experience required! Bring binoculars or a scope. Maximum distance is 2.5 miles; recommended for ages 9+.

Sunset Picnic Hike (Course #29653)

October 22; 5:00 PM - 7:00 PM

Bring your family and a picnic dinner to rustic Bommer Canyon to enjoy a canyon sunset. Begin with a guided nature walk and conclude with dinner in the picnic area. Hike distance is one mile. Recommended for ages 6+.

Laguna Coast Wilderness Park

2101 Laguna Canyon Road, Laguna Beach

949-923-2235

<http://www.ocparks.com>

Open weekends, 8:00 AM - 4:00 PM. Starting October 2005, open daily 8:00 AM - 4:00 PM.

The main areas of the park include:

Willow Canyon on Laguna Canyon Road, just south of the El Toro Road intersection: Open to hikers, equestrians and mountain bikers on specified trails without guides; parking, \$3. Volunteers available for assistance.

Dilley Preserve on Laguna Canyon Road, just north of the 73 Tollroad: This area is closed for at least six months due to road construction.

Laguna Heights, accessible from either end of Alta Laguna Boulevard, links to the West Ridge trail and other routes into Aliso and Wood Canyons Wilderness Park.

Organizations leading activities within the park include:

Laguna Greenbelt, Inc.; meet at Willow Canyon; call 949-923-2235:

- October 1, 8 and 15, 8 a.m., Laurel Loop Hike
- October 15 (and every third Saturday of the month), 8 to 11 a.m., *Wilderness Restoration Project*; volunteers receive free "Keep it Wild" t-shirt from Laguna Canyon Foundation
- October 16, 9 to 11:00 a.m., *Wilderness Access Volunteer Training* with LGB representatives

The Nature Conservancy (TNC); reservations required; call 714-832-7478 or e-mail

irvineranch@tnc.org for meeting points (TNC also offers programs elsewhere):

- October 2, 8 a.m., 7- to 12-mile, easy paced mountain bike ride through Shady Canyon and along Serrano Ridge in Laguna Coast Wilderness Park with TNC guide
- October 13, 8 a.m., 3-mile, 3-hour hike in Laurel Canyon with TNC guide

Exciting Environmental & Science Education Events!

Local Event Calendar

Oak Canyon Nature Center

6700 E. Walnut Canyon Road, Anaheim 92807

Call 714-998-8380 for fees and reservations

Open 7 days a week, 9:00 AM to 4:00 PM

<http://www.anaheim.net/ocnc>

For families and individuals. Saturdays, 10:00 AM - 11:00 AM: FREE.

10/1 *Hawks & Vultures of the Canyon*

10/8 *Warning Plants of the Canyon*

10/15 *Insects of the Canyon*

10/22 *Nocturnal Animals of the Canyon*

Nature Hikes for Tykes. For ages 2-4, from 10:00 AM - 11:00 AM. \$3/participant.

10/12 *What Belongs in Nature?*

10/17 *Itsy Bitsy Spider*

10/25 *Whooo Do You Hear?*

10/31 *Creepy Crawlies*

Tykes on the Go. For ages 4-6, from 2:00 PM - 3:00 PM. \$3/participant.

10/10 *Stellaluna*

10/21 *Wide-Eye Nature Walk*

10/27 *Who's Scat is That?*

Canyon Explorers. For ages 6-9; from 1:00 PM - 2:00 PM. \$4.50/participant.

10/1 *It's a Small, Small World*

Art a la Naturale. For ages 9-12; from 1:00 PM - 2:30 PM. \$4.50/participant.

10/22 *Jack-O-Lantern Artistry*

Junior Naturalists. For ages 5 - 9; from 10:00 AM - 12:30 PM. \$9.00/participant/day

10/3 *Home Sweet Home*

10/4 *Finding Your Way*

10/5 *Birds, Birds, Birds!*

10/6 *Trash or Treasure?*

10/7 *The Real Thorns and Berries*

Canyon Trailblazers. For ages 9 - 12, 10:00 AM - 12:30 PM. \$9.00 per participant per day.

10/3 *Finding Your Way*

10/4 *Happenin' Habitats*

10/5 *Trackin' Through the Canyon*

10/6 *Let's Get Lost!*

10/7 *Animal Ambassadors*

Roots & Shoots. Ages 12 and up on Sundays, 1:00 - 2:30 PM. Free.

10/2 *Wren Way Trail Non-Native Plant Removal*

10/9 *Parking Lot Trash Removal*

10/16 *Main Road Dry Brush Removal / Trail Maintenance*

10/23 *Stream Trail Non-Native Plant Removal*

10/30 *Oak Canyon Trash Removals/ Trail Maintenance*

Exciting Environmental & Science Education Events!

Local Event Calendar

Orange County Zoo in Irvine Regional Park

1 Irvine Park Road

Orange, CA 92862

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

Event fees include admission for the enrolled child and one parent (only one parent can accompany the child). Parking Fee: Irvine Park gate entry is \$3 on weekdays and \$5 on weekends and holidays. Class registration can only be made by phone by contacting Marcy Crede-Booth, Education Coordinator, at 714-973-6846. The cost is \$5 per child. All fee payments are to be made the day of the scheduled class when you arrive at the zoo. Location: Orange County Zoo; .

These classes are for toddlers 3-4 years old:

- » **October 7, 10:00 AM – 11:00 AM: Animal Art.** Join in for an hour of fun and creativity with an animal theme! Come ready to get a little messy and wear clothes you don't mind getting dirty.
- » **October 20 and October 28, 10:00 AM – 11:00 AM: Bats, Cats & Spiders.** Halloween is almost here! Come learn all about the animals associated with Halloween and make some spooky crafts!

Santa Ana Zoo

1801 East Chestnut Avenue

Santa Ana, CA 92701

714-836-4000

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

Every second Tuesday of the Month: Residents of Santa Ana with a valid ID receive free admission to the Santa Ana Zoo. Also available are free train rides on the Zoofari Express (11:00 AM - 2:00 PM).

Every Saturday and Sunday, 12:00 PM - 12:30 PM and 2:30 PM - 3:00 PM: "Critters for Conservation" Animal Shows at the Santa Ana Zoo. Come meet some of the zoo's animal ambassadors up close and personal and learn how you can help save endangered species. The show is free with zoo admission.

Sheep Shearing Festival: October 1; 10:00 AM - 12:00 PM

Come to the zoo on Saturday, October 1st from 10:00-12:00 noon to see our sheep get their hair cut, feel the raw wool and see what they look like with no hair! Free with regular zoo admission.

National Chemistry Week – Science at the Zoo Day: October 16

Eat liquid nitrogen ice cream. Blow enormous bubbles. Dig through giant vats of ooze. Explore science at the zoo as the American Chemical Society celebrates National Chemistry Week. This year's theme is "The Joy of Toys." Local colleges and university science professors and students will be providing hands-on science activities around the zoo for children to learn the positive contributions of science to everyday life. Special science stage shows. Free with regular zoo admission.

Shibley Nature Center

In the western part of Huntington Beach Central Park, south of Slater Street and west of Goldenwest Street.

Huntington Beach, CA 92648

714-842-4772

shibleynature@yahoo.com

<http://www.fsnc.org>

Every first Saturday of the month; 9:00 AM - 12:00 PM: Restoration as Recreation at Shibley Nature Center. Renew your spirit and reconnect with nature. Join us for restoration activities such as planting, watering, trail maintenance and weeding.

Exciting Environmental & Science Education Events!

Local Event Calendar

Muth Interpretive Center (at Upper Newport Bay)

2301 University Drive; Newport Beach

<http://www.newportbay.org/progic.htm>

Call 949-923-2275 to register.

Toddler Time: Birds of Prey

October 5; 10:30 AM (ages 3 - 4)

Learn about the birds of prey that inhabit the Upper Newport Bay.

Toddler Time: Batty Bats

October 19; 9:00 AM (ages 2 - 3) or **10:30 AM** (ages 3 - 4)

Learn all about bats including some that live near the Bay.

Spectacular Spiders & Amazing Arachnids

October 29; 10:00 AM - 11:30 PM

“Dr. Sue, The Bug Lady” shares specimens from her traveling zoo while you learn the facts behind the “Very Busy Spider” story. \$10/child, 5 and up. Registration: 949-923-2275.

Upper Newport Bay

600 Shellmaker Road

Newport Beach, CA 92660

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

Every Wednesday, 9:00 AM - 11:00 AM: Steward Days at Upper Newport Bay’s Shellmaker Island. Join in to maintain the restoration projects around the Upper Newport Bay. Activities vary each week and may include working in the native plant nursery or watering plants at restoration sites. Gloves, tools, snacks and water are provided. For more information (including directions to the work site) and to register as a volunteer, please contact Matt Yurko at 949-640-0286 or myurko@coastal.ca.gov

Every Saturday, 8:30 AM: Canoe the Back Bay. Take a 2-hour, naturalist-guided tour of the Back Bay. The cost is \$10 per person. Call 949-923-2269 to make reservations.

Every Saturday, 10:00 AM: Kayak Tours at Upper Newport Bay. Meet at the Newport Aquatic Center on Northstar Beach for a 2-hour, naturalist-guided kayak tour of Back Bay. The fee is \$15 per person. Call 949-923-2269 for reservations.

Every Sunday, 10:00 AM: Kayak Tours at Upper Newport Bay. Meet at the Newport Dunes Resort for a 2-hour, naturalist-guided kayak tour of Back Bay. The fee is \$20 per person. There is also a parking fee. Call 949-729-1150 or 949-729-3863 for reservations.

Walking Tour (meet at Back Bay Science Center)

October 1 and October 15; 9:00 AM

Join a trained Naturalist for a 2-hour walk along the bay. Bring binoculars and sun protection. Free. No reservations required. Information: 949-923-2269.

Friends of Newport Bay Walking Tour (meet at East Bluff)

October 8; 9:00 AM, 9:15 AM, 9:30 AM, 10:00 AM, 10:15 AM

Walk along the Back Bay listening to Naturalists and visiting Interpretive Stations featuring natural history specialists. Free. No reservations required. Information: 949-923-2269.

Exciting Environmental & Science Education Events!

Local Event Calendar

Upper Newport Bay (continued)

Marine Discovery at Back Bay Science Center

October 15; 8:30 AM - 11:30 AM

Marine biology students ages 8 and up are invited to participate in a variety of marine life monitoring programs in Newport Bay. Reservations: 949-640-9956.

SOCALPAPA Paints Back Bay

October 15 and 16; 10:00 AM - 4:00 PM

An art show and sale will feature works by southern California artists participating in a "Paint Out" around the Bay. Hands-on art activities for children of all ages will be available as part of a Nature Festival. For information call 949-923-2269.

Electric Boat Tour of the Bay (meet at Back Bay Science Center)

October 15; 11:30 AM

Join a Naturalist on a 2-hour guided tour of the bay on a comfortable electric pontoon boat. \$10/person. Reservations: 949-923-2269.

Twilight Canoe Tour with Barbecue (meet at Back Bay Science Center)

October 15; 4:00 PM

Join Naturalists and Sea Scouts for a beautiful tour of the Reserve and dinner around the campfire at Shellmaker Island. \$25/person. Information and reservations: 949-642-5031.

Shark Camp at the Bay (meet at Back Bay Science Center)

October 15; 6:00 PM

Learn about the lives of sharks and rays while eating dinner around the campfire. Then help catch, tag and release them off the dock. \$25/person. Information and reservations: 949-642-5031.

Evening Marsh Prowl (meet at Back Bay Science Center)

October 15; 7:30 PM

Join a Naturalist on a guided tour of the bay at dusk on the Back Bay Science Center Boat. Use spotlights and binoculars to search for owls and other night creatures. \$10/person. Reservations: 949-923-2269.

ROOTS Restoration Teamwork at the Back Bay Science Center

October 22; 9:00 AM - 12:00 PM

Help restore Back Bay habitat by installing and maintaining native plants while learning about wetland ecology. Call 949-640-9956 for information.

Aliso & Wood Canyons Wilderness Park

28373 Alicia Parkway, Laguna Niguel

949-923-2200

<http://www.ocparks.com>

Daily: 7:00 AM - sunset. Parking = \$3

Audubon's Starr Ranch Sanctuary

100 Bell Canyon

Trabuco Canyon, CA 92679

Reservations: 949-858-0131

Information: 949-858-0309

<http://www.starr-ranch.org>



Exciting Environmental & Science Education Events!

Local Event Calendar

Ralph B. Clark Regional Park

8800 Rosecrans Avenue
Buena Park, CA 90621
714-973-3170

clarkpark@ocpark.com
<http://www.ocparks.com/clarkpark>

Discovery Science Center

2500 N. Main St.
Santa Ana, CA 92705
714-542-2823

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

The Donna O'Neill Land Conservancy

28672 Ortega Highway (office)
San Juan Capistrano, CA 92693
949-489-9778

laura@theconservancy.org
<http://www.TheConservancy.org>

Future Scientists and Engineers of America (FSEA)

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

Ocean Institute

24200 Dana Point Harbor Dr.
Dana Point, CA 92629
949-496-2274

<http://www.ocean-institute.org/>

Orange County Harbors, Beaches, and Parks

<http://www.ocparks.com/events/default.asp>

Orange County Natural History Museum **(in Aliso & Wood Canyons Wilderness Park)**

949-831-3287

Sea and Sage Audubon Society

<http://seaandsageaudubon.org>

