



# Orange County CREEC

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

Volume 3, Issue 2

September 2005

## Hidden Question

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](mailto:HdelaMaza@ocde.us) with the correct answer to the hidden question **will receive the book *Bats*, by Tony Hutson**. This 72-page book has beautiful photographs and covers many aspects of bat natural history from echolocation, feeding habits, and geographic distribution to bat conservation.



*If you "gave up" last year on answering the hidden question, give it another go around! Few people actually participate, and folks who are not the first responder often receive "consolation" curriculum!*

**Let us know what you think!** If you have yet to take the online survey letting CREEC Region 9b know what you think of the newsletter and the website, please do so by going to <http://www.creec.org/region9b/> and clicking on the survey link.

Thank You! ❁

## Coordinator Communications: Coastal Cleanup Day

The 21st Annual California Coastal Cleanup Day will be on Saturday, September 17, 2005. Make sure you and your students are involved! There are plenty of opportunities available in Orange County. For details on coastal and inland cleanup sites, go to the CREEC Region 9b website at <http://www.creec.org/region9b/> and then click on the Coastal Cleanup Day link. Contact information for approximately 30 sites is listed.

Since the program started in 1985, over 650,000 Californians have removed more than 10 million pounds of debris from our state's shorelines and coast. For more information on the statewide event, and for teacher lesson plans that can be used to tie in this community service opportunity, go to <http://www.coastal.ca.gov/publiced/ccd/ccd.html>



-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 here has been compiled from a variety of sources, including NSTA Express, EE-NEWS@NAAEE, CREEC, Information Exchange for Marine Educators, Project Learning Tree, GLEF Edutopia News, and others.

## Training Time!

### Seminars on Science: Online Courses through the American Museum of Natural History

<http://learn.amnh.org>

**Registration Deadline: September 12, 2005**

(register by August 31 to receive a \$50 discount)

**Cost: \$445/course**

The following Fall 2005 courses are being offered:

- Earth: Inside and Out
- Genetics, Genomics, Genethics
- Space, Time and Motion - Physical Science
- The Link Between Dinosaurs and Birds
- The Ocean System

Up to 4 graduate credits are available for each course. All courses are September 26 - November 6, with an extra week for finishing your project. For more information, e-mail [seminfo@amnh.org](mailto:seminfo@amnh.org)

### Resource Conservation Conference

**Friday, September 16, 2005; 9:30 AM - 4:30 PM**

**Registration Fee: \$55**

*Location: Hyatt Regency Huntington Beach*

*21500 Pacific Coast Highway*

*Huntington Beach, CA, 92648*

**For information, contact Flossie Horgan at 714-536-7262 or [horganf@aol.com](mailto:horganf@aol.com)**

This important event will focus on strategies that will address your community's present and future conservation needs - preserving resources for water quality, for parks, and for recreational needs. You will learn successful strategies to address these key issues and potential funding opportunities to assist you in making your community more livable.

### K-12 Teacher Scholarships to Attend North American Association for Environmental Education's Convention in Albuquerque, October 25 - 29, 2005.

[http://naaee.org/conferences/newmexico/teacherflyer\\_2005.pdf](http://naaee.org/conferences/newmexico/teacherflyer_2005.pdf)

<http://naaee.org/pages/conferences/newmexico/blmfund.html>

**Deadline: September 30, 2005**

K-12 teachers are encouraged to apply for a \$280 scholarship to attend the conference.

### National Teachers Enhancement Network: Online Science Content Courses for Teachers

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

**Cost: Varies**

Teachers of grades 3-12 can choose from physics courses, biology, Earth science, education, geography, land resources, and environmental sciences. For more information, call 800-282-6062.

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## Great Grants & Cool Contests

### Mattel Children's Foundation

[http://www.mattel.com/about\\_us/philanthropy/ci\\_mcf\\_philanthropy\\_grantmaking.asp](http://www.mattel.com/about_us/philanthropy/ci_mcf_philanthropy_grantmaking.asp)

**Deadline: September 30, 2005**

Grant applications are being accepted from US organizations that serve children in need. Awards range from \$5,000 to \$25,000. Priority will be given to organizations or programs that creatively address a locally defined need directly impacting children, especially those up to thirteen years old, in three key areas: health, education, and girls' empowerment.

### Various Teacher and Student Awards through the National Science Teachers Association

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

**Deadline: October 15, 2005 (for most awards)**

NSTA and its sponsors recognize and reward exemplary teachers (K-College), principals (middle level and high school), and students (K-12) with cash, trips, workshops, computers, science program materials, and more. These awards offer opportunities to receive professional and personal recognition and to share your school's science education success stories.

### California Foundation for Agriculture in the Classroom: Outstanding Educator of the Year

<http://www.cfaitc.org/Educator>

**Nomination Deadline: October 28, 2005**

**Application Deadline: November 25, 2005**

Tell us how you or your nominee use agriculture in the classroom and the students benefit from the experience. The winning applicant will receive a complimentary trip to both the National Ag in the Classroom Conference in Atlantic City, New Jersey and AITC California Conference in 2006.

### President's Environmental Youth Awards

<http://www.epa.gov/enviroed/awards.html> (for an application and additional information)

**Deadline Extended to: October 31, 2005**

This program, sponsored by the EPA, recognizes young people across America for projects which demonstrate their commitment to the environment. Previous projects have included recycling programs in schools and communities; construction of nature preserves; major tree planting programs; videos, skits, and newsletters created by students that focused on environmental issues; and environmental science projects. A student, or student team, must be sponsored by an adult. For an application, visit the website above.

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## Rad Resources

### 2005 STAR Test Results Available

<http://star.cde.ca.gov/star2005/viewreport.asp>

The 2005 STAR test results have been posted on the California Department of Education website. These can be displayed by county/school/district and also by subpopulations. To get an overview of the state results for all four core subject areas, select CST as the test, and click on "View Report."

### Greenbelt Alliance Reports

<http://greenbelt.org/resources/reports/>

This teacher's guide contains five activities for grades 3-8 that aim to help young city dwellers examine their connection to the greenbelt. It includes hands-on lessons, discussion questions and ideas for taking action. Through these activities, youth will see that the greenbelt is not just "out there," but that elements of it are present in their everyday urban environment. Each lesson takes approximately 45 minutes.

### Design a Planet

<http://quest.arc.nasa.gov/>

Astro-Venture is an educational, interactive, multimedia website for grades 5-8 that highlights NASA careers and astrobiology research in the areas of astronomy, geology, biology and atmospheric science. In September 2005, Astro-Venture will launch Design a Planet through NASA Quest. In this live webcast, students will have the opportunity to interact with scientists who are developing a program that can model planets with signs of life. Students will also be introduced to a new simulation on the Astro-Venture website that will challenge them to design a planet that would support human habitation.

### Earth Science Week 2005: October 9 - 15, 2005

<http://www.earthsciweek.org/forteachers/index.html>

During Earth Science Week, engage your students in the study of Earth. Visit this website to:

- link to Earth Science classroom activities that are keyed to the National Science Education Standards
- participate in real scientific research by collecting data as part of a national research project
- enter an Earth Science Week Contest
- download Earth Science Week images and logos to use in your activities
- order an Earth Science Week Educator's Information Kit

### Journey South

<http://www.learner.org/jnorth/>

K-12 teachers and students can participate in one of the Journey North project's free online global studies of wildlife migration and seasonal change. The fall "Journey South" activities prepare students for spring and help them grasp the cyclical nature of the seasons. Participating classrooms follow the migration patterns of monarch butterflies, bald eagles, and other animals and study plants, changing sunlight and other natural events. Students share field observations with classmates across North America and analyze real-time maps and data from other classroom and professional scientists. Each Journey South study features many entry points to meet your teaching needs: standards-based lessons and challenges, reading and writing connections, photos and video clips, weekly migration updates, interactive maps, connections with field scientists and migration "stories." The studies help students conduct local observations and relate them to a global context.

### Teachers' Domain

<http://www.teachersdomain.org>

Teachers' Domain is an online collection of classroom-ready multimedia resources from public television programs like NOVA, ZOOM, Building Big, and A Science Odyssey. Video and audio clips, interactive activities, photographs, diagrams, illustrations, and images of documents bring science to life in exciting interactive ways. Whether used in teacher presentations or assigned to students for self-study, these resources supplement static textbook lessons with compelling images and data.

All resources are correlated to California and national standards, which can be consulted as needed. A menu of commonly taught topics and a searchable database make locating resources easy. Teachers' Domain is available at no charge, through the generosity of its funders and WGBH.

### Edheads

<http://edheads.org/>

This site offers a variety of flash learning programs and lesson plans designed to meet state and national learning standards. ❁



## Great Grants & Cool Contests *(continued from page 2)*

### **Draw Your State Flower National Contest**

<http://www.scotts.com/stateflower>

**Deadline: November 1, 2005**

The Scotts Miracle-Gro Company invites elementary school children (K-6) to draw their state flowers. This national contest is designed to increase appreciation for our state flowers, and to raise awareness of the new National Garden in Washington, D.C. One winner will be selected from each state, and winning entries will be displayed at the National Garden, part of the U.S. Botanic Garden adjacent to the U.S. Capitol building in Washington, D.C. The Scotts Miracle-Gro Company is proud to be an Official Founding Sponsor of the National Garden. Call 800-221-1760, x 5775 for information.

### **Lorrie Otto Seeds for Education Grant Program**

<http://www.for-wild.org/sfecvr.html>

**Deadline: November 15, 2005**

This program gives small monetary grants to schools, nature centers or other non-profit educational organizations for the purpose of establishing outdoor learning centers. Funds will be provided only for the purchase of native plants and seed. Cash awards range from \$100 - \$500.

### **Whale Tail Grants Program - California**

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

**Deadline: November 15, 2005**

The California Coastal Commission's Whale Tail Grants Program invites nonprofits and governmental agencies to apply for funding to support programs that encourage people to value and take action to improve the health of California's coast, marine life, or inland watersheds, with an emphasis on reaching underserved students and members of the public. Educational beach maintenance and coastal habitat restoration programs are also eligible. Applicants may request any amount up to \$50,000; 25-50% of the funding will be allocated in small grants under \$10,000.

### **HSBC - North America Grants Available**

[http://www.hsbcusa.com/corporateresponsibility/contributions\\_grants/application\\_guidelines.html](http://www.hsbcusa.com/corporateresponsibility/contributions_grants/application_guidelines.html)

**Rolling Deadline**

HSBC provides grants to schools and non-profit organizations in the areas of education and the environment.

### **2006 Youth Garden Grants Program**

<http://www.kidsgardening.com/grants.asp>

**Deadline: November 30, 2005**

NGA awards Youth Garden Grants to schools and community organizations with child-centered, outdoor garden programs. In evaluating grant applications, priority will be given to programs that emphasize one or more of these elements:

- educational focus and/or curricular ties
- nutrition or plant-to-food connections
- environmental awareness/education
- entrepreneurship
- social aspects of gardening such as leadership development, team building, community support, or service-learning.

### **TOYChallenge**

**Eligibility: Students in Grades 5 - 8**

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

**Sign up by: December 31, 2005**

The mission of this fun-fueled toy and game design competition is to motivate students, especially girls, to pursue science, engineering, and education careers. To participate, design teams must find an adult coach (18 years of age or older) and sign up (the fee is \$25 per team); choose from themed-toy categories such as "Games for the Family," "Get out and Play," and "Toys that Teach," and create and submit their preliminary-round entry, which consists of a written description and visual presentation of their original toy or game concept. At least half of the members on each team must be girls. All submissions will be judged on originality, creativity, engineering elegance, feasibility, design process description, team participation, and clarity of communication.

### **The 2005 Toyota TAPESTRY Grants for Teachers Program**

<http://www.nsta.org/programs/tapestry>

**Deadline: January 19, 2006**

Toyota and NSTA offer a total of \$550,000 in grants to K-12 teachers of science who wish to implement innovative, community-based science projects. Teachers may apply for large grants up to \$10,000 or mini-grants of up to \$2,500. The categories are Environmental Science Education, Physical Science Applications, and Literacy and Science Education. ❁

## Training Time!

(continued from page 2)

### Geology, Biology, Anthropology... Courses offered at Local Community Colleges

Many evening courses are offered. Only ~\$26/unit!

Irvine Valley College: <http://www.ivc.edu>

Santiago Canyon College: <http://www.sccollege.edu>

Santa Ana College: <http://www.sac.edu>

Fullerton College: <http://www.fullcoll.edu>

Saddleback Valley College:

<http://www.saddleback.cc.ca.us/>

Orange Coast College:

<http://www.orangecoastcollege.edu/>

### Educators' Evening of Science at the Discovery Science Center - Free!

**September 27, 2005; 5:00 PM - 7:30 PM**

Join us for hors d'oeuvres, program previews, and a tour of our Digital Lab computer lab. Teachers can become familiar with the latest fun and educational programs the Science Center offers. To reserve your space, call 714-542-2823 x 5103 or email [rsvp@discoverycube.org](mailto:rsvp@discoverycube.org)

### Teachers' Open House at the Discovery Science Center - Free! October 3, 2005; 4:30 - 6:30 PM

This educational event includes a guided tour of the exhibits and a hands-on, science workshop. During this year, the hands-on workshops will focus on science content that will facilitate an understanding of the concepts addressed on the 5<sup>th</sup> grade science test. Plant structures and design, photosynthesis and plant respiration will be covered in October. Call 714-913-5012 for information.

### Train To Be A Volunteer Naturalist!

**Environmental Studies: 200: Naturalist Training; Ticket #17050 (2.5 units) at Saddleback College 8-week course begins October 20, 2005**

**Cost: \$26/unit**

**For information, contact Elisabeth Brown at [LGreenbelt@aol.com](mailto:LGreenbelt@aol.com)**

**To register, go to <http://www.saddleback.edu>**

The class consists of eight Thursday evening seminars on topics ranging from ecology to human history, and eight weekend field trips to various natural areas in Orange County. After successful completion of the program, you will be eligible to lead tours at a variety of local natural areas.

**For the Hidden Question, go to**

<http://www.creec.org/region9b/> and look for information regarding Coastal Cleanup Day.

Contact Helen (714-708-3889;

[HdelaMaza@ocde.us](mailto:HdelaMaza@ocde.us)) and list five cleanup locations in Orange County. ❀

## Provider Highlight:

### The Donna O'Neill Land Conservancy

The Donna O'Neill Land Conservancy is a proud Member of the Orange County CREEC Provider Network. Laura Cohen, the Executive Director, is a member of the CREEC Advisory Committee.

The Donna O'Neill Land Conservancy was created in 1990 to provide land for wildlife displaced by development in the city of San Clemente. It is a 1200-acre wilderness reserve located on the historic Rancho Mission Viejo in southern Orange County. The plant communities and habitats found on the reserve are representative of the Southern California landscape as it appeared before the Spanish settlers arrived more than two centuries ago. (From <http://www.theconservancy.org>)

The Donna O'Neill Land Conservancy offers programming for the public through hikes, nature walks, astronomy nights, and more. For a calendar of public events, visit the website and go to the "calendar" section.

School program presentations are also offered and were designed by educators, biologists, and naturalists. The following presentations address the life science strand of the State of California Science Standards:

- The Babies of Orange County Wilderness (2nd Grade)
- Adaptations of Orange County Wildlife (3rd Grade)
- Food Webs of Orange County (4th Grade)
- Orange County Ecosystems (6th Grade)

For more information on The Donna O'Neill Land Conservancy, visit <http://www.theconservancy.org> call 949-489-9778, or e-mail: [laura@theconservancy.org](mailto:laura@theconservancy.org)

*Special Event at The Conservancy!*

**"A Date with Nature"**

**October 1, 2005; 2:30 PM - 6:00 PM**

The event will be phenomenal, with a wild animal presentation by Nature of Wildworks, live music, Dr. Sue and her Insect Zoo, Orange County snakes and a biologist to tell you about them, digging for fossils, daytime astronomy, nature walks, Acjachemen crafts, rock climbing, water cycle bracelet-making, owl pellet dissecting, and much, much more! To register, call 949-489-9778. ❀



## Exciting Environmental & Science Education Events and More Training Opportunities

### **Fourth Annual Festival of Children at South Coast Plaza**

**September 1 - 25, 2005**

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

Environmental education organizations and approximately 50 children's nonprofits will be on site through the entire month, along with 12 visiting groups that will occupy one of the guest booths for a day or a weekend. There are over 100 events!

### **Plastic Debris Rivers to Sea Conference: Focusing on the Land Based Sources of Marine Debris; September 7 - 9, 2005**

<http://www.earthresources.org>

Location: Crowne Plaza Hotel, 300 N. Harbor Dr.; Redondo Beach, 90277

Contact [mgordon@coastal.ca.gov](mailto:mgordon@coastal.ca.gov) for information.

### **Orange County Wild Symposium**

**September 9, 2005; 11:30 AM - 2:00 PM**

Providers - plan on attending this OC Wild Symposium! You will have the opportunity to network, as well as to learn about The Green Vision Project which will be presented by Melanie Schlotterbeck. Download a registration form in the "Provider" section at

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

### **FREE! 15th Annual Family "Eco-Fun" Faire at Oak Canyon Nature Center (6700 E. Walnut Canyon Road in the Anaheim Hills, CA 92807)**

**September 11, 2005; 12:00 PM - 4:00 PM**

Everyone will enjoy a special day of "Eco-Fun" with take-home crafts, action-filled games, earth-wise challenge course, and terrific prizes. You'll see exciting entertainment, fascinating exhibitors with terrific give-a-ways, and surprise guests... all celebrating our earth's natural resources and the ways we can "Make A Difference" in a beautiful picturesque setting. Refreshments for sale. Go to <http://www.anaheim.net/ocnc> or call 714-998-8380.

### **Great Earth Walk**

**September 24, 2005; 8:00 AM - 12:00 PM**

<http://www.GreatEarthWalk2005.org>

In conjunction with National Public Lands Day, thousands of Great Earth Walk participants of all ages and backgrounds will hike designated trails throughout Los Angeles and Orange Counties. Walkers will raise funds for various environmental organizations and increase public awareness of the precious resources that so many of us take for granted. Individuals can participate through walking or sponsoring a walker or team.

### **Volunteer Opportunities**

#### **Fullerton Arboretum Volunteer Orientation**

**September 17, 2005; 1:00 PM - 3:00 PM**

All members who have in interest in volunteering at the Arboretum should plan to attend this event at Oak Hall. Reservations are not required. For information call 714-278-3579 or visit

<http://arboretum.fullerton.edu/clndre/clndr.asp>

#### **Wilderness Access Volunteer Training**

**September 18, 2005; 9:00 AM - 11:00 AM**

Become a Wilderness Access Volunteer (WAV) and join the Laguna Coast volunteer team who assist visitors at the park information/sign-in table. Its a wonderful opportunity to help out while meeting new people and enjoying a pristine wilderness experience. Call 949-923-2235 to sign up.

Location: Laguna Coast Wilderness Park; 20101 Laguna Canyon Road; Laguna Beach, CA 92651

#### **Train for a Day, Become Volunteer at the Bay!**

**September 24; 9:00 AM - 3:00 PM**

Be a part of this dynamic estuary! During the training, you will learn about the habitats and wildlife of the bay. As a volunteer, you can participate in habitat restoration and special events; assist with canoe, kayak, walking, and school tours; and help greet and educate visitors at the Interpretive Center and Back Bay Science Center. Call 949-923-2275 for information. Location: Upper Newport Bay; 2301 University Drive; Newport Beach, CA 92660.

### **Training for Providers**

#### **Certified Interpretive Guide Workshop at**

**Acorn Naturalists (155 El Camino Real; Tustin)**

**October 12 - 15, 2005**

This workshop is offered through the National Association for Interpretation (NAI). The four-day course covers everything you need to know - from theory to application - to become certified as an Interpretive Guide through NAI. Topics include: the principles of effective interpretation, what ensures audiences pay attention, building great presentations in 10 easy steps, and more. The cost is \$310 for NAI members, and \$355 for non-members. Contact the instructor, Rici Peterson, for further information at 505-466-0656 or

[rici@attendingmarvels.com](mailto:rici@attendingmarvels.com) A registration form is available at <http://www.attendingmarvels.com>



# Exciting Environmental & Science Education Events!

## Local Event Calendar

(For additional events, and a listing by Facility/Provider, go to <http://www.creec.org/region9b/>)

- » **Every first Monday of the Month: Residents of Santa Ana with a valid ID can receive free admission to Discovery Science Center.** Call for details! 714-542-CUBE
- » **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). For more information, call 714-836-4000 or visit <http://www.santaanazoo.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](mailto: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 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. For more information call 714-836-4000 or visit <http://www.santaanazoo.org>
- » **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.
- » **Every First Saturday of the Month, 9:00 AM - 12:00 PM: Restoration at Shipley Nature Center.** Everyone is invited to participate in planting, weeding, and other restoration activities. Bring a pair of gardening gloves and any gardening tools you have available such as shovel, hoe, or rake. *Please label tools clearly with your name.* Wear sturdy closed toe shoes and clothes you don't mind getting dirty. Call 714-842-4772 or visit <http://www.fsnc.org> for information.
- » **Every First Saturday of the Month, 11:00 AM: Tour of Shipley Nature Center.** Hear descriptions of the Center's planned restoration to its historical native plant habitat with the addition of water conservation gardens. Meet at the front gate to the Shipley Nature Center. Large groups should e-mail [shipleynature@yahoo.com](mailto:shipleynature@yahoo.com) Visit <http://www.fsnc.org> for information.
- » **September 2, 7:30 PM: Spiders with Lenny Vincent at Santiago Nature Preserve** (900 E Memory Lane, Santa Ana). Bring your own marshmallows, hot dogs and lawn chairs and enjoy an evening out. Free. For more information, call 714-571-4288.
- » **September 3, 8:00 AM - 10:00 AM: Family Nature Walk "Learning about Spiders" at The Donna O'Neill Land Conservancy.** Spiders are active in the late summer and early fall; it is the time you are most likely to find a tarantula along the trail! So, come and search for our eight-legged friends and build a spider as you go! Donation: \$5/adult, \$2/child. Call for reservations and directions: 949-489-9778. For information visit <http://www.TheConservancy.org>
- » **September 3, 9:00 AM: Backcountry Hike at Crystal Cove State Park.** Meet at El Moro Visitor Center (from PCH turn inland at the stoplight "School-State Park."). Day use parking fee is \$10. Call for information: 949-497-7647.
- » **September 3, 10:00 AM - 11:00 AM: Ground Birds of the Canyon at Oak Canyon Nature Center.** Join this guided nature walk with a professional naturalist. Free. Call 714-998-8380 for information and directions.
- » **September 4, 9:00 AM: Backcountry Hike at Crystal Cove State Park.** Meet at El Moro Visitor Center (from PCH turn inland at the stoplight "School-State Park."). Day use parking fee is \$10. Call for information: 949-497-7647.

# Exciting Environmental & Science Education Events!

## Local Event Calendar

- » **September 4, 9:30 AM - 10:30 AM: Nature Hike with the Ranger at Santiago Oaks Regional Park.** Bring the family and join Ranger Carroll for a fun and informative hour long nature walk. Learn how to recognize poison oak, animal tracks, and the commonly seen plants and animals in the park. Free. Parking free is \$5. Hike is appropriate for all ages. Call for information: 714-973-6620 or <http://www.ocparks.com>
- » **September 9, 6:30 PM - 8:30 PM: Sunset Picnic Hike at Bommer Canyon.** Bring your family and a picnic dinner to rustic Bommer Canyon to enjoy a gorgeous canyon sunset. The evening will begin with a guided nature walk and will conclude with dinner in the picnic area. Hike distance is one mile. Ages 6+. Free. To register sign up for #26947 at <http://www.IrvineQuickReg.org> Call 949-724-6610 for information.
- » **September 9, 7:30 PM - 9:00 PM: Star Party Astronomy Night at the Environmental Nature Center.** Join us for a tour of the night sky with astronomer Andres Dandler. We will view a short indoor presentation and then adjourn to the outdoor classroom for a look through Andre's special telescope. Recommended for children aged 6 and up. Cost is \$5/child. Call 949-645-8489 for reservations.
- » **September 10, 6:30 AM - 9:30 AM: North Ridge Hike at The Donna O'Neill Land Conservancy.** Hike the North Ridge Trail of The Conservancy to see the reserve on a beautiful September morning and learn about the precious wilderness in Orange County and the native plants and animals that live there. Start the day with an invigorating 3- to 4-mile hike surrounded by bird songs and the smell of sagebrush. Donation: \$5/adult, \$2/child. Call for reservations and directions: 949-489-9778. For more information visit <http://www.TheConservancy.org>
- » **September 10, 9:00 AM: Plant ID Hike at Crystal Cove State Park.** Meet at El Moro Visitor Center (from PCH turn inland at the stoplight "School-State Park."). Day use parking fee is \$10. Call for information: 949-497-7647.
- » **September 10, 9:00 AM - 12:00 PM: Restoration Teamwork Days at Upper Newport Bay.** At this event, we will be preparing a current restoration site for the upcoming planting season by weeding, mulching, and watering our coastal sage scrub plots. Come enjoy a morning in full view of the beautiful Upper Newport Bay! Tools, gloves, 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](mailto:myurko@coastal.ca.gov)
- » **September 10, 10:00 AM - 11:00 AM: Plants of the Canyon at Oak Canyon Nature Center.** Join this guided nature walk with a professional naturalist. Free. Call 714-998-8380 for information and directions.
- » **September 10, 10:00 AM: Historic District Walk at Crystal Cove State Park.** Meet at Los Trancos lot near the trailer (from PCH turn inland at the stoplight "Los Trancos"). Day use parking fee is \$10. Call for information: 949-497-7647.
- » **September 10, 10:00 AM: Guided Tours of the Fullerton Arboretum.** These tours cover all major sections of the Arboretum and last approximately one hour. A \$2.00 donation per person is requested. Groups of 10 or more should call the Arboretum a week in advance at 714-278-3579 to reserve a space.
- » **September 10, 1:00 PM - 2:30 PM: Plein Aire Painting for Kids at the Muth Interpretive Center.** Students will learn the joy of painting from nature with members of the Southern California Plein Aire Painters Association (SOCALPAPA). Workshops will take place on the front patio of the Peter and Mary Muth Interpretive Center. No experience necessary. All materials will be supplied. ( Paintings will be displayed at SoCalPapa Event in Oct.) Event fee: \$5/child; parking fee: \$5. Call 949-923-2275 to register.
- » **September 11, 9:00 AM: Backcountry Hike at Crystal Cove State Park.** Meet at El Moro Visitor Center (from PCH turn inland at the stoplight "School-State Park."). Day use parking fee is \$10. Call for information: 949-497-7647.
- » **September 11, 9:30 AM - 10:30 AM: Nature Hike with the Ranger at Santiago Oaks Regional Park.** Bring the family and join Ranger Carroll for a fun and informative hour long nature walk. Learn how to recognize poison oak, animal tracks, and the commonly seen plants and animals in the park. Free. Parking free is \$5. Hike is appropriate for all ages. Call for information: 714-973-6620 or <http://www.ocparks.com>
- » **September 11, 1:00 PM - 2:30 PM: Plein Aire Painting for Kids (ages 8-9) at the Muth Interpretive Center.** Students will learn the joy of painting from nature with members of the Southern California Plein Aire Painters Association (SOCALPAPA). Workshops will take place on the front patio of the Peter and Mary Muth Interpretive Center. No experience necessary. All materials will be supplied. ( Paintings will be displayed at SoCalPapa Event in Oct.) Event fee: \$5/child; parking fee: \$5. Call 949-923-2275 to register.

# Exciting Environmental & Science Education Events!

## Local Event Calendar

- » **September 11, 3:00 PM - 4:30 PM: Plein Aire Painting for Kids (ages 10-12) at the Muth Interpretive Center.** Students will learn the joy of painting from nature with members of the Southern California Plein Aire Painters Association (SOCALPAPA). Workshops will take place on the front patio of the Peter and Mary Muth Interpretive Center. No experience necessary. All materials will be supplied. (Paintings will be displayed at SoCalPapa Event in Oct.) Event fee: \$5/child; parking fee: \$5. Call 949-923-2275 to register.
- » **September 14, 9:00 AM - 12:00 PM: Plein Aire Painting at the Muth Interpretive Center.** Enjoy a wonderful morning painting the Back Bay with family and friends. The front patio of the Interpretive Center provides a beautiful setting with panoramic views. Jean Marie will demonstrate and present traditional Plein Aire techniques and you will return home with your completed original oil painting. If it rains, we will move indoors and paint from photographs. All materials are provided. Dress in comfortable, layered, painting appropriate clothing with sun hat. Bring drinking water. Event fee: \$15/child aged 8-18; \$20/adult; parking fee: \$3. Call 949-923-2275 to register.
- » **September 14, 7:00 PM: Reptiles and Amphibians of Orange County - Natural History Lecture by T'Shaka Toure.** Location: Acorn Naturalists' Center for Science and Environmental Education, 155 El Camino Real, Tustin 92780. For information, go to <http://www.acornnaturalists.com> or call 714-838-4888.
- » **September 15, 7:30 PM: Chapter Meeting of the Orange County California Native Plant Society.** Meetings are held at the Irvine Ranch Water District headquarters (15600 Sand Canyon Ave., Irvine). Go to <http://www.ocnps.org/> for details.
- » **September 16, 6:00 PM - 7:30 PM: Harvest Full Moon Walk at the Environmental Nature Center.** Join us for an evening of nocturnal exploration at the ENC. As the sun sets, we will walk beneath the branches of towering sycamore and oaks as the harvest moon shines in the sky above. Recommended for families with children aged 8 and up. Cost is \$3/participant. Call 949-645-8489 for reservations.
- » **SEPTEMBER 17: CALIFORNIA COASTAL CLEANUP DAY! Visit:** <http://www.creec.org/region9b/>
- » **September 17, 8:00 AM - 10:00 AM: Native Plant Nature Walk at The Donna O'Neill Land Conservancy.** Enjoy a nature walk, learn to identify some native plants and develop a native plant ID card collection. Donation: \$8/adult. Call for reservations and directions: 949-489-9778. For more information visit <http://www.TheConservancy.org>
- » **September 17, 8:00 AM - 10:30 AM: Birding in Bommer Canyon.** Stroll through Bommer Canyon as we look and listen for the many species of birds that dwell within our wilderness preserve. Docents will assist in identifying local birds and will offer background information on our most common species. No experience required! Binoculars recommended; scopes welcome. Hike distance is up to 2.5 miles. Recommended for ages 10+. Free. To register sign up for #26954 at <http://www.IrvineQuickReg.org> Call 949-724-6610 for information.
- » **September 17, 9:00 AM: Plant Hike at Crystal Cove State Park.** Meet at El Moro Visitor Center (from PCH turn inland at the stoplight "School-State Park."). Day use parking fee is \$10. Call for information: 949-497-7647.
- » **September 17, 10:00 AM - 11:00 AM: Spiders of the Canyon at Oak Canyon Nature Center.** Join this guided nature walk with a professional naturalist. Free. Call 714-998-8380 for information and directions.
- » **September 17, 8:00 PM - 10:00 PM: Full Moon Nature Walk at The Donna O'Neill Land Conservancy.** Enjoy the cool dusk of September, with its fresh, wild scents while you walk the trails by the light of a full moon to the sounds of chorusing crickets. Donation: \$5/adult. Call for reservations and directions: 949-489-9778. For more information visit <http://www.TheConservancy.org>
- » **September 17, 8:00 PM - 10:00 PM: Full Moon Hike at Bommer Canyon.** 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+. Free. To register sign up for #26943 at <http://www.IrvineQuickReg.org> Call 949-724-6610 for information.
- » **September 18, 9:00 AM: Backcountry Hike at Crystal Cove State Park.** Meet at El Moro Visitor Center (from PCH turn inland at the stoplight "School-State Park."). Day use parking fee is \$10. Call for information: 949-497-7647.
- » **September 18, 9:30 AM - 10:30 AM: Nature Hike with the Ranger at Santiago Oaks Regional Park.** Bring the family and join Ranger Carroll for a fun and informative hour long nature walk. Learn how to recognize poison oak, animal tracks, and the commonly seen plants and animals in the park. Free. Parking free is \$5. Hike is appropriate for all ages. Call for information: 714-973-6620 or <http://www.ocparks.com>

# Exciting Environmental & Science Education Events!

## Local Event Calendar

- » **September 18, 1:00 PM - 4:00 PM: Plein Aire Painting at the Muth Interpretive Center.** Enjoy a wonderful morning painting the Back Bay with family and friends. The front patio of the Interpretive Center provides a beautiful setting with panoramic views. Jean Marie will demonstrate and present traditional Plein Aire techniques and you will return home with your completed original oil painting. If it rains, we will move indoors and paint from photographs. All materials are provided. Dress in comfortable, layered, painting appropriate clothing with sun hat. Bring drinking water. Event fee: \$15/child aged 8-18; \$20/adult; parking fee: \$3. Call 949-923-2275 to register.
- » **September 18, 4:00 PM: Orange County Space Society at Discovery Science Center.** Visitors can learn about the latest space news within our community and around the world. Meet other space enthusiasts, professionals in related industries and get up-to-speed on space-related events. Learn about getting involved with space and science activism and education in your community. For more information, contact OCSS at [ocspacesociety@hotmail.com](mailto:ocspacesociety@hotmail.com) or visit online at <http://www.ocspace.org/index.htm>
- » **September 22, 5:30 PM – 7:30 PM: Autumnal Equinox Sunset Walk at The Donna O’Neill Land Conservancy.** Come be in the wild world during this day of equal darkness and light; the transition between summer and fall is now complete. You will enjoy the evening fragrance at the beginning of this “harvest season.” Donation: \$5/adult, \$2/child. Call for reservations and directions: 949-489-9778. For more information visit <http://www.TheConservancy.org>
- » **September 22, 6:00 PM: Autumn Equinox Beach Walk at Crystal Cove State Park.** Meet at Pelican Point Parking Lot #2 (from PCH turn coastward at the stoplight “Newport Coast,” turn right at the kiosk to the first lot). Day use parking fee is \$10. Call for information: 949-497-7647.
- » **September 24: Arboretum Entomologists “Bug Safari” at the Fullerton Arboretum (ages 8 and up).** Young people participate in a garden adventure, discovering, exploring and investigating the world of insects. Hands-on activities include observation and catch and release. Class participants will gather in the Children’s Garden to explore for insects of all kinds. The group will then head off on an exciting exploration of the Arboretum grounds to find more interesting specimens to observe. Led by Nature Guides Don Grime, Cindy Calisher and volunteer Garden Pals. Parent participation is welcomed. Fee is \$3 per child. For group reservations of 4 or more please call 714-278-3579 and press 0.
- » **September 24, 7:30 AM – 10:30 AM: Middle Ridge Hike at The Donna O’Neill Land Conservancy.** Hike the Middle Ridge Trail of The Conservancy and see the reserve on a beautiful September morning. You will learn about the precious wilderness in Orange County and the native plants and animals that live there during this invigorating 3- to 4-mile hike. Donation: \$5/adult, \$2/child. Call for reservations and directions: 949-489-9778. For more information visit <http://www.TheConservancy.org>
- » **September 24, 8:00 AM: Mind, Body, Spirit Hike at Crystal Cove State Park.** Meet at El Moro Visitor Center (from PCH turn inland at the stoplight “School-State Park.”). Day use parking fee is \$10. Call for information: 949-497-7647.
- » **September 24, 8:00 AM - 1:00 PM: Get Into It at Bommer Canyon.** If you have been waiting for an opportunity to get an up close look inside beautiful Bommer Canyon, this is your chance! During this free, drop-in event, the Open Space staff will host a day of open trail access, fun and exploration. A docent led mountain bike ride, guided hike, and crafts for kids will highlight this event. Bring along a picnic and enjoy the day outdoors! Free. To register sign up for #26949 at <http://www.IrvineQuickReg.org> For information call 949-724-6610.
- » **September 24, 9:00 AM - 11:00 AM: Irvine Day at Orange County Water District.** Irvine residents are invited to see a water purification facility and learn about Orange County’s future water supply. Tour one of the world’s most advanced water purification systems. The tour will show how wastewater currently sent to the ocean can be purified to better than bottled water quality in minutes. Reservations are preferred. For more information and to make a reservation, call 714-378-3362. To learn more about this innovative project, visit the website at <http://www.gwrssystem.com>
- » **September 24, 9:30 AM - 2:30 PM: Family Adventure Days (ages 6 and up) at Santiago Nature Preserve (900 E Memory Lane, Santa Ana).** Experience the basics of camping, hiking, backpacking and fishing in a beautiful private outdoor setting at Oak Canyon Lake in Orange. No fishing license is required. A \$5 per person materials fee is due at class. For more information, call 714-538-8170.

## Exciting Environmental & Science Education Events!

### *Local Event Calendar*

- » **September 24, 10:00 AM - 11:30 AM: Home Composting Workshop at Fullerton Arboretum.** Learn how to start your own home composting system. Discover how easy it is with our informative and entertaining experts, Dr. Bill Roley, President, Applied Ecological Systems and Patrick McNelly, Principal Staff Analyst, O.C. Sanitation District. Our instructors have won the nationally recognized H. Clark Gregory Award for Outstanding Grassroots Efforts to Promote Composting. Fee is \$7 per person, \$5 per Member. Free to residents of sponsoring cities: Brea, Buena Park, Fullerton, Orange and Santa Ana with proof of residency. Space is limited, call to reserve space: 714-278-3579 and press 0.
- » **September 24, 10:00 AM - 11:00 AM: Trackin' in the Canyon at Oak Canyon Nature Center.** Join this guided nature walk with a professional naturalist. Free. Call 714-998-8380 for information and directions.
- » **September 24, 8:00 PM - 9:30 PM: Fall Constellations at Thomas F. Riley Wilderness Park.** Join Val Akins and the Orange County Astronomers to explore the fall constellations and stars. Bring beach chairs and maybe a picnic supper to enjoy. Refreshments will be on sale by Wagon Wheel Natural History Association. Event fee: \$4/person; ages 12 and under are free. All ages are welcome. Call for information: 949-923-2265 or visit <http://www.ocparks.com>
- » **September 25, 7:30 AM - 9:30 AM: Cardio Conditioning Hike at Bommer Canyon.** 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+. This program is free and will leave from the Turtle Rock Nature Center. To register sign up for #26940 at <http://www.IrvineQuickReg.org> Call 949-724-6610 for information.
- » **September 25, 8:30 AM - 10:30 AM: Bommer Rocks at Bommer Canyon.** Join our resident geologist on a 'rocky' hike through beautiful Bommer Canyon. Participants will decipher clues to the origins and history of our area and solve the mystery about the ocean fossils in our Open Space. Maximum distance is two miles. Recommended for ages 7+. Free. To register sign up for #26953 at <http://www.IrvineQuickReg.org> Call 949-724-6610 for information.
- » **September 25, 9:00 AM: Backcountry Hike at Crystal Cove State Park.** Meet at El Moro Visitor Center (from PCH turn inland at the stoplight "School-State Park."). Day use parking fee is \$10. Call for information: 949-497-7647.
- » **September 25, 9:30 AM - 10:30 AM: Nature Hike with the Ranger at Santiago Oaks Regional Park.** Bring the family and join Ranger Carroll for a fun and informative hour long nature walk. Learn how to recognize poison oak, animal tracks, and the commonly seen plants and animals in the park. Free. Parking free is \$5. Hike is appropriate for all ages. Call for information: 714-973-6620 or <http://www.ocparks.com>
- » **September 25, 2:00 PM - 3:00 PM: How Insects Communicate at the Muth Interpretive Center.** If you have ever marveled at ants, walking in a row on the ground, been enchanted by the flashing lights of a firefly, or comforted by crickets chirping on a summer evening, this class is for you! Learn how various insects communicate essential information to their potential mates or nest mates. Follow a trail yourself, create a flashing code and "Flirt with a female cricket." "Dr. Sue The Bug Lady" helps you understand what some creatures are saying to each other and demonstrates how with fun activities. Event fee: \$10/child (ages 5 and up); parking fee: \$5. Call 949-923-2275 to register.
- » **October 1, 9:30 AM - 10:30 AM: Young Gardeners (ages 3-5) at Fullerton Arboretum.** Learn to garden through storytelling, planting and harvesting in the Children's Garden. Take home plant or seeds included. Parent participation is required. Saturday Gardening Classes for young people offer a variety of hands-on projects designed to introduce children to gardening and the natural environment. Each class offers new and exciting activities. Attend as many classes as your schedule permits. Reservations are requested for groups of 4 or more by calling 714-278-3579, press 0. Meet in the Children's Garden. Fee is \$3 per child per class.
- » **October 1, 9:00 AM - 10:30 AM: California Native Landscaping at Fullerton Arboretum.** If you want to know more about Drought Tolerant Landscaping, then this is the class for you! Learn how to introduce California Native plants into your own landscape and enjoy the results of a more carefree and spectacular garden! Come enjoy a fascinating discussion and tour of our California Native Collection led by Chris Barnhill, Curator of Plant Collection. \$7/person, \$5/members. Reservations: 714-278-3579 and press 0.

# Exciting Environmental & Science Education Events!

## Local Event Calendar

### Weekday Toddler/Children's Programs

#### **Environmental Nature Center** (<http://www.encenter.org>)

1601 16th Street; Newport Beach 92663

Open Monday - Friday, 8:00 AM - 5:00 PM and Saturday, 8:00 AM - 4:00 PM

Call 949-645-8489 for reservations and information.

Programs listed below are for 3 - 5 year olds. Cost is \$5/child. Call for reservations.

- » **September 8, 10:00 AM – 11:00 AM: Little Naturalists - Bodacious Butterflies.** Join us for this parent and child playtime with an insect theme! We will learn about insects and butterflies, explore the Nature Center on an insect "hunt," read "The Very Hungry Caterpillar," make caterpillar clips, and visit the butterfly house to see live butterflies.
- » **September 27, 10:00 AM – 11:00 AM: Little Naturalists - Down by the Pond.** Join us for this parent and child playtime with a pond theme! We will learn about the animals that live in and around ponds, explore the ENC's pond and stream to get a close up look at some aquatic critters, and read "Jump, Frog, Jump!"

#### **Oak Canyon Nature Center** (<http://www.anaheim.net/ocnc>)

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

9/6 A Tree is Like Me

9/15 What is Wild?

9/23 Nature's Autumn Paintbrush

9/28 Wide-Eye Nature Walk

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

9/8 What's That You Say? (*about animal ears*)

9/16 Look into Their Eyes

9/19 What is wild?

9/30 Scamperin' Squirrels

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

9/17 The Final Frontier (*space*)

10/1 It's a Small, Small World

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

9/24 Good Earth Art (*projects from Earth-friendly recyclable materials*)

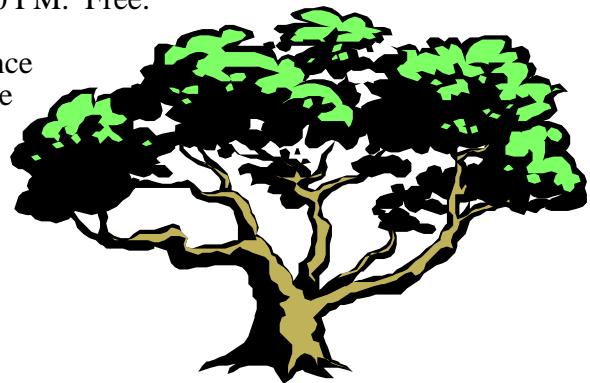
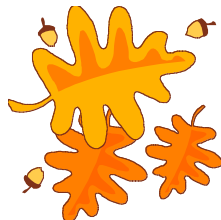
**Roots & Shoots.** Ages 12 and up on Sundays, 1:00 - 2:30 PM. Free.

9/4 Bluebird Lane Trash Clean-Up/Trail Maintenance

9/18 Heritage Trail Dry Brush Removals/Trail Maintenance

9/25 OCNC Bridges' Trash Removal/Stream Maintenance

10/2 Wren Way Trail Non-Native Plant Removal



# Exciting Environmental & Science Education Events!

## Local Event Calendar

### Orange County Zoo in Irvine Regional Park

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; 1 Irvine Park Road; Orange 92862.

These classes are for toddlers 3-4 years old:

- » **September 16, 10:00 AM – 11:00 AM: Animals in My Backyard.** What creatures do you find in your backyard? Learn fun facts and make fun crafts in this class filled with hands-on learning and fun.
- » **September 22, 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.
- » **September 30, 10:00 AM – 11:00 AM: What's For Lunch?** What do the animals in the zoo eat? Come find out in this fun class filled with facts about what zoo animals eat for breakfast, lunch or dinner and make fun crafts!

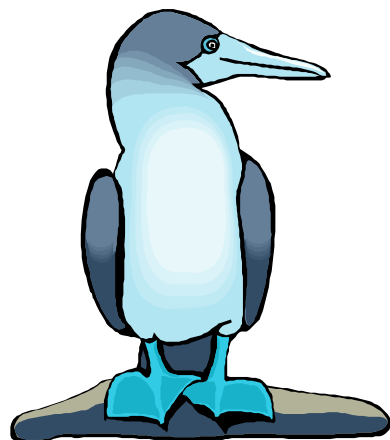
**Story Time at the Zoo for All Ages:** The Orange County Zoo invites children of all ages to join us for story time. Come learn more about animals and enjoy storytelling under the oak trees! Event Fee: Free with zoo admission (\$2.00 per person, ages 2 and up). Irvine Park entry fee: \$3.00 weekdays.

- |                                 |                                      |
|---------------------------------|--------------------------------------|
| » <b>September 1, 11:30 AM</b>  | » <b>September 3, 2:00 PM</b>        |
| » <b>September 13, 11:30 AM</b> | » <b>September 15, 11:30 AM</b>      |
| » <b>September 17, 2:00 PM</b>  | » <b>September 20, call for time</b> |
| » <b>September 22, 11:30 AM</b> | » <b>September 23, 11:30 AM</b>      |
| » <b>September 24, 2:00 PM</b>  | » <b>September 27, 11:30 AM</b>      |
| » <b>September 29, 11:30 AM</b> |                                      |

### Muth Interpretive Center (at Upper Newport Bay)

2301 University Drive; Newport Beach  
Call 949-923-2275 to register.

- » **September 7, 10:30 AM - 11:15 AM: Toddler Time “Animal Senses.”** What if you could smell with your tongue and taste with your feet? Join us for story time and hands-on fun in this parent-child learning experience all about amazing animal senses. \$5/child ages 3-4; parking fee \$3.
- » **September 21, 9:00 AM - 9:45 AM (2-3 yr. olds) and 10:30 AM - 11:15 AM (3-4 yr. olds): Toddler Time “Native Americans.”** Join a Park Ranger for this parent and child playtime with a Native American theme. Enjoy stories, movement and hands on fun! \$5/child; parking fee \$3. ❁



(blue-footed booby)