



MEMBERS

WINTER 2012

CALENDAR



SKETCH
FOUNDATION GALLERY

AIR and SPACE

Now Open

At a Glance

Look What's Happening!

EXHIBITS



AIR AND SPACE EXHIBITS **Disney Science Court, 2nd Floor** **Now On View**

The move of the *Air and Space Exhibits* from their former location to the Science Center's main Ahmanson Building is nearly complete. As you enter the 1st floor lobby from the south (near the pavilion and IMAX box office), you'll notice two jet aircraft, the Northrop T-38 Talon and Northrop

F-20 Tigershark, making a low pass right toward you. But don't stop there! Ascend the escalator to the title wall for the new SKETCH Foundation Gallery, featuring an impressive image of the Hubble Space Telescope of the Carina Nebula, a place in our galaxy where stars are born.

In the north area of the 2nd floor, check out the aeronautics exhibits including vintage aircraft, the 1902 Wright Glider replica and 1929 Velie Monocoupe, along with wind tunnels, a flight simulator and an interactive exhibit on flight controls.

Visit the Stars and Telescopes exhibit where you can explore detailed models of famous orbiting telescopes such as Chandra, Hubble and Spitzer along with an actual flown Aerobee 150 sounding rocket used to carry astronomy payloads to the edge of the atmosphere. Here you can also

learn about light waves, frequencies and the search for extraterrestrial life through a collection of hands-on exhibits.

In the east exhibit area, you'll see three flown space capsules from the Mercury, Gemini and Apollo programs along with an actual Orion sounding rocket, spacesuits from the Mercury and Apollo programs and a real lunar sample brought back to Earth by Apollo astronaut Buzz Aldrin.

With these three exhibit areas now complete look for the fourth and final area, which is all about robotic spacecraft to the planets, to be installed in January 2012. We're excited about the new location for the *Air and Space Exhibits* and invite you to visit us soon to experience more than 80 years of science and engineering that lets us fly through the atmosphere and explore the depths of space.



1001 INVENTIONS **DISCOVER THE GOLDEN AGE OF MUSLIM CIVILIZATION** **Weingart Special Exhibits Gallery, 3rd Floor** **Extended until March 11, 2012**

Explore the scientific contributions made by men and women during the Golden Age of Muslim Civilization. Through hands-on exhibits, learn basic science principles that many of us take for granted in such fields as optics, time-keeping, hydraulics, navigation, architecture and math.



SAVE THE DATE – SUNDAY, MAY 20, 2012 **MEMBERS-ONLY PREVIEW!**

Cleopatra: The Search for the Last Queen of Egypt—an exciting new exhibition is making its West Coast debut at the Science Center. Featuring nearly 150 artifacts from Cleopatra's time, the exhibit takes visitors on the present-day search for the elusive queen, which extends from the sands of Egypt to the depths of the Bay of Aboukir near Alexandria. Watch for exhibit details and preview reservation information coming soon.

IMAX



Discover the prehistoric world of pterosaurs—flying vertebrates with a wingspan of up to 40 feet who lived millions of years ago.



Explore the cosmos through the amazing journey of the Hubble Space Telescope—one of the most important scientific instruments since Galileo's original telescope



An inspired story of love, dedication and the remarkable bond between humans and orphaned orangutans and elephants.

Members receive a discount on IMAX tickets! Visit <http://goto.californiasciencecenter.org/imaxtimes> or call (213) 744-7400 for prices and showtimes.

MEMBER NEWS



SPECIAL OFFER FROM THE NATURAL HISTORY MUSEUM OF LOS ANGELES COUNTY

Show your California Science Center Membercard (or a Science Center IMAX ticket stub) at the Natural History Museum box office and **receive a discount on Museum admission—\$2 off general adult admission and \$1 off general child, senior and student admission.**

See the Natural History Museum's all new 14,000-square foot Dinosaur Hall featuring more than 300 fossils, 20 full-body specimens including Thomas the T. rex, and an array of interactive displays and video presentations. For additional information about the exhibit, visit the NHM website at www.nhm.org. Admission discount offer is valid through January 31, 2012.

EDUCATION PROGRAMS



Amgen Center for Science Learning

SCIENCE SATURDAYS

Science Saturdays feature hands-on science workshops for young scientists! Each day features the Little Scientist's Lab for preschool and kindergarten students and the Junior Scientist's Lab for grades 1-4. Upcoming programs include "Air Pressure" on March 17, 2012.

Members enjoy special discount pricing—\$20 per child per session (a \$5 savings).

Visit <http://goto.californiasciencecenter.org/sciencesaturdays> for more information.



HANDS-ON SCIENCE CAMP

Members-only registration opens February 13, 2012!

Mark your calendars to register for summer 2012 Hands-On Science Camp from June 18 to August 17, 2012.

Members receive discount pricing—a savings of up to \$40 per child per class.

Check our website in February at <http://goto.californiasciencecenter.org/camp> for a full listing of new and returning classes.

HOME SCHOOL DAYS

Join us for a new season of Home School Days—hands-on science activities geared specifically toward home school students! Classes are offered for ages 5-16 and students may select morning (9 a.m. to 12 p.m.) or afternoon (1 to 3:30 p.m.) sessions. The morning and afternoon sessions are identical. Mark your calendars for February 27, March 19, April 16 and May 21, 2012. Each day will focus on an exciting science theme to be announced soon!

Members enjoy special discount pricing—\$20 per child per session (a \$5 savings).

Visit <http://goto.californiasciencecenter.org/homeschool> for additional details and registration forms.

SCOUT PROGRAMS

During our Scout Days programs, scouts work together to complete requirements for a specific science related badge. Sign up for upcoming programs on February 11, 2012 for Cub Scouts and March 24, 2012 for Girl Scouts. Cost is \$15 per scout per session; adults are free.

Visit <http://goto.californiasciencecenter.org/scouts> for complete details and to download registrations forms.

TEAM ENDEAVOUR TILE SPONSORSHIP LEVELS

In appreciation for your generous support, Team Endeavour shuttle tile sponsors will be recognized on a digital representation of Endeavour, as part of a future exhibit in the new Air and Space Center.

Choose from one of the gift levels below.

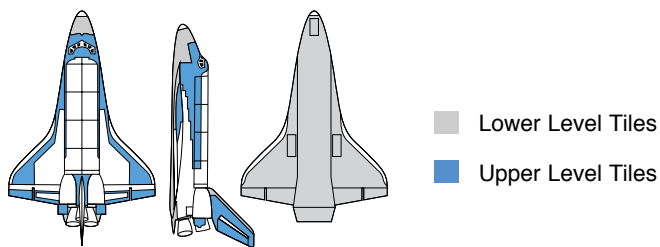
Team Endeavour tile sponsors will enjoy the following:

- \$1,000 Sponsorship**
 - Random selection of sponsored thermal tile from lower level of Endeavour
 - Subscription to Endeavour e-newsletter to be kept informed of Endeavour's arrival
 - Limited edition Endeavour gift

- \$2,500 Sponsorship**
 - Random selection of sponsored thermal tile from lower level of Endeavour
 - Subscription to Endeavour e-newsletter to be kept informed of Endeavour's arrival
 - Limited edition Endeavour gift
 - Priority viewing opportunities for Endeavour and the Air and Space Center

- \$5,000 Sponsorship** Upper Lower
 - Choice of sponsored thermal tile from upper level or lower level of Endeavour
 - Subscription to Endeavour e-newsletter to be kept informed of Endeavour's arrival
 - Limited edition Endeavour gift
 - Priority viewing opportunities for Endeavour and the Air and Space Center

- \$10,000 Sponsorship** Upper Lower
 - Choice of sponsored thermal tile from upper level or lower level of Endeavour
 - Opportunity to create a personalized message for your tile
 - Subscription to Endeavour e-newsletter to be kept informed of Endeavour's arrival
 - Limited edition Endeavour gift
 - Priority viewing opportunities for Endeavour and the Air and Space Center
 - Exclusive invitations to special events and programs



Tile sponsorship levels of \$25,000 and higher are available.

For more information about sponsoring a shuttle tile and joining Team Endeavour, please call (213) 744-2031 or email teamendeavour@cscmail.org.

THIS CONTRIBUTION IS A:

- Personal Gift Corporate Gift Foundation Gift

Name: _____

Title: _____

Company: _____

Address: _____

City, State Zip: _____

Home Phone: _____ Mobile Phone: _____

Work Phone: _____ Email: _____

PAYMENT OPTIONS:

- I would like to fulfill my pledge in full upon processing.

- I would like to fulfill my pledge in 10 equal monthly installments. If a credit card is selected as my method of payment, my card will be charged for the first installment within 7 to 10 business days. My second and subsequent installments will occur the 30th of the month, beginning next month. (In the event the 30th falls on a weekend, your card will be charged the next business day. For the month of February, your card will be charged on the 28th or the next business day.) By selecting this box, I authorize the California Science Center Foundation to authorize payments as outlined above.

- I am sponsoring at the \$10,000 level or above and would like to fulfill my gift according to multi-year payment schedule. Please contact me to arrange installment details.

Name as it should appear on Team Endeavour recognition materials (Limit of 75 characters)

- Check is enclosed payable to California Science Center Foundation

Charge full payment or first monthly installment to (select payment option above)

- Visa Mastercard American Express

Account # _____

Exp. Date _____ Signature _____

Please complete the sponsorship form and mail with your payment to:

Team Endeavour, Development Office
 California Science Center Foundation
 700 Exposition Park Dr.,
 Los Angeles, CA 90037. Or, to contribute online,
 visit www.EndeavourLA.org and click on "Sponsor a Shuttle Tile."

Be a Part of Team Endeavour! Sponsor a Shuttle Tile

Help bring **Endeavour** to the California Science Center and support the building of a new **Air and Space Center** and ongoing educational programs and operations!

The California Science Center is proud to be the future home of Space Shuttle Orbiter Endeavour. Bringing Endeavour to the Science Center will expand the landscape of science learning opportunities for our city, state and beyond.

Endeavour's missions have resulted in many achievements, including leading the first Hubble Telescope Repair Mission and the delivery of the Alpha Magnetic Spectrometer, a \$5 billion experiment to study black holes. But many scientific feats lie in the systems of the orbiter itself, notably the Thermal Protection System (TPS). The TPS is composed of over 23,000 ceramic tiles that cover the surface of the orbiter. These tiles protect the orbiter from the searing heat upon reentry into Earth's atmosphere (about 3,000°F!) and from the extreme heat and cold from being in space. Without these tiles, the orbiter would be destroyed.

These tiles are integral to the safety of the orbiter, just as you, our members, friends and supporters, are integral to the success of the California Science Center. See page four for additional information. **Join us in showing your support by sponsoring a tile today!**



Photo credits, left to right, top to bottom: NASA/Bill Ingalls, NASA/Kim Shiflett, NASA/Terry Zaperach, NASA/George Roberts and NASA/Mike Kerley



California Science Center Foundation
 Membership Office
 700 Exposition Park Drive
 Los Angeles, CA 90037
 (213) 744-7504
 www.californiasciencecenter.org

Presorted
 First Class Mail
 U.S. Postage
PAID
 Permit No. 27171
 Los Angeles, CA

SPECIAL ACTIVITIES AND
 OFFERS FOR MEMBERS.
 LOOK INSIDE FOR DETAILS!

*The California Science Center
 aspires to stimulate curiosity
 and inspire science learning
 in everyone by creating fun,
 memorable experiences.*



**IN CONJUNCTION WITH INTERNATIONAL YEAR OF THE BAT
 MEMBERS-ONLY FILM SCREENING
 AND TALK BY BAT RESEARCHER DR. KHALEEL A. RAZAK
 Thursday, February 16, 2012
 IMAX Theater – 7:30 p.m.**

The United Nations Environment Programme (UNEP) has declared 2012 as International Year of the Bat. The campaign highlights how bats benefit biodiversity, their unique and valuable ecosystem services, and how bat conservation can have positive and lasting environmental impact. Bats save the farming industry millions of dollars each year, help sustain the world’s forests and, in some countries, are a major tourist attraction. Yet, they are described as “one of the planet’s most misunderstood and persecuted mammals.”

Members are invited to learn more about bats at a free film screening and talk. We are showing

a brief (20 minute) science education film that examines several species of bats. Dr. Khaleel A. Razak, Assistant Professor of Neuroscience and Psychology University of California, Riverside, will share insights from his research on bats. Dr. Razak assisted the California Science Center during bat collecting trips to Texas to obtain pallid bats for our *Ecosystems* Desert Zone exhibit. Members of the Science Center’s Living Collections staff will join Dr. Razak for the question and answer session following his presentation. The overall program is appropriate for elementary school children, but may not be suitable for younger children.

Please note: This film is not in IMAX large-screen format and will be shown only once at the Science Center for this Members-only screening.

Reservations are required and will be taken on a first-received, first-reserved basis. Due to theater capacity, reservations are limited to two adults and four children (age 17 and under) per Membership. RSVP online at <http://goto.californiasciencecenter.org/memberevent> or call the Members’ Reservation line at (213) 744-2029.

About Our Bats: The bats in the Science Center’s *Ecosystems* exhibit are pallid bats (*Antrozous pallidus*). Pallid bats eat insects, specializing in capturing larger insects like crickets, scorpions and centipedes on the ground. They hunt by using their large, sensitive ears, and flying slow and low to the ground, listening for prey. Our bats are still getting used to their home in the exhibit, but can usually be seen in their roost box clinging to the black mesh on the sides. The *Ecosystems* bat exhibit is open during regular visiting hours, 10 a.m. to 5 p.m. daily.

Renew your Membership today, so you won’t miss this exclusive opportunity for Members only!