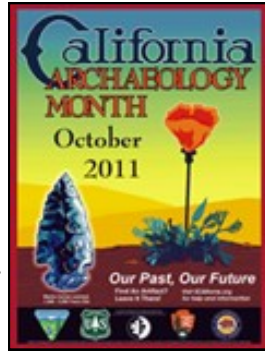


California Archaeology Month

Imagine...for a moment that you have a 10,000 piece jigsaw puzzle-but no picture to tell you how it's supposed to look.

Then imagine that the puzzle was buried in your backyard many years ago by someone who lived in your house before you were born, and an archaeologist just dug it up again. The pieces are all scattered around; some of them have gotten wet and the picture is gone; others are caked with mud; many others have been eaten by gophers or carried away by kids digging in the dirt,



never to be found again. Now take what's left of the puzzle pieces into a laboratory, clean them off, count them (of the original 10,000, say there are 4,000 left), lay them all out on the table-and try to put the puzzle back together, to see what the picture was.

That is the challenge archaeologists face on every project. Part detective, part scientist, part historian-archaeologists are a group of multitasking people curious about the past and what we can learn from it. October is

the perfect time to do "a little digging" of your own to explore the science of archaeology. At the Discovery Museum Science & Space Center, nearly 600 students will participate in our simulated archaeological excavation program, *Digging Up the Past* throughout the month of October. If you have a school group interested in learning more about our hands on archaeology program, call our scheduling line, 916-485-8836. To find a local California Archaeology Month event visit the Society for California Archaeology website, www.scahome.org.

Shake It Out Sacramento



School groups and museum visitors will get a chance to *Drop, Cover and Hold On!* this month as the Discovery Museum Science & Space Center participates in *The Great California Shake Out*. The Shake Out is a statewide earthquake drill created to help people and organizations become better prepared before the next big earthquake and for everyone to practice how to protect themselves when it happens. It only takes 1 minute to perform this simple drill, and it's not too late for you to participate.

On October 20th at 10:20a.m. the museum will interrupt our regularly scheduled programs to practice the safety drill with the other 7.4 million Californians who are currently registered. To set the scene, a recording will be broadcast over the museum PA system alerting guests to the drill, and filling the area with the sounds of a simulated earthquake. Students, teachers and staff will stop all activity and Drop, Cover and Hold On.

Disaster preparedness education continues over the weekend of

October 22nd and 23rd from 12:30 to 4:00p.m. with visiting community guests sharing ways all of our museum visitors can better prepare for the natural disasters that pose a threat in our area.

If you would like to register as a participant in the California Great Shake Out of 2011 or would like more information visit www.shakeout.org.



COSMOS Turns 7



At the Sacramento & Company studio

Discovery Museum ambassador, Cosmos robot will be celebrating his 7th birthday on the weekend of October 1st with sweet treats and fun photo opportunities.

Cosmos was built in a robotics lab in Christmas, Florida on October 9th, 2004. Originally, Cosmos was created to work as a food and beverage service droid, a task he reprised on September 30th of this year when he served guests at Bots and Shots, the Discovery Museum's annual fundraiser.

Although Cosmos began his assignment as a service droid, his love for science and space brought him to California and the Discovery Museum Science & Space Center. Cosmos was expected to begin his duties at the museum shortly after being built, but two wild Florida hurricanes delayed his transfer to California. When he arrived at the Discover Museum on De-

cember 20, 2004, he was quickly promoted to the museum's chief robotic ambassador.

Today, Cosmos performs many roles. He is an excellent host on many weekends, warmly greeting museum visitors and answering their questions.

Cosmos also enjoys accompanying the development staff on away missions to various special event locations including the Sacramento Zoo, Perspectives, Walk N Rock 2011, Carnival of Lights and Fairy Tale Town.

A local television celebrity, Cosmos has appeared on Good Day Sacramento and Sacramento & Company, and has been featured in several local news broadcasts and stories.

Visit with Cosmos select weekends at the Discovery Museum. Please call for more information.



Cosmos & Montel Williams Good Day Sacramento

Participating Merchant Partner

DISCOVERY MUSEUM
Science & Space Center
Members Welcome
www.TheDiscovery.org

The Art Of Having Fun.

For a complete listing of participating Merchant Club business locations, please visit our website at www.TheDiscovery.org.

Challenger Learning Center 2011/12 Community Mission Schedule



(For ages 9 and above!)
Select Fridays 5:30pm-8:30pm

Pre-registration is required:

- \$20 non-members
- \$15 for members

2011/12 Mission Dates:

- ✓ Oct 28th (Mars)- FULL
- ✓ Dec 16th (Comet)
- ✓ Feb 17th, 2012 (Mars)
- ✓ April 13th, 2012 (Moon)

For more information, please visit www.thediscovery.org or call (916) 808-3942 to make a reservation!



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The Bear Facts

Have you visited the new Bear Corner at the Museum? This new mini-exhibit features skulls from a brown bear, a grizzly bear, and a polar bear. There are also bear pelts, claws, and teeth to examine.

How much do you know about bears? Here are some fun questions and some "bear facts" (Hint: The answer to each of these questions is one of these bears: Black Bear, Grizzly Bear, or Polar Bear.)

1. What is the only bear found in California?
2. What type of bear is on the California state flag?
3. Which bear is the world's largest land carnivore?
4. The males of which species cannot be fitted with radio tracking collars?
5. Which bear has the strongest bite?
6. Which bear has learned to identify and open SUVs?
7. Which bear has black skin?

Did everyone write down your guesses? Ready for the answers?

1. The only bear species found in California today is the black bear. The grizzly is extinct. (But black bears come in many shades of

brown, leading to confusion sometimes.)

2. The bear on the California state flag is a grizzly. His name was Monarch, and he was one of the last three known California grizzlies. He was captured in 1889, and lived until his death in 1911 at the Golden Gate Park Zoo in San Francisco. A female silver tip grizzly from Idaho was brought in as his companion, and their descendants still live at the zoo. Monarch was preserved after his death at the California Academy of Sciences, and served as the model for the current California flag in 1955.

3. The polar bear is the world's largest land carnivore and is in a tie for the largest bear with the omnivorous Kodiak bear, which is approximately the same size.

4. Polar bears! The male polar bear's jaws and neck are approximately the same size, giving the bear a cone-shaped head and neck. Collars just slide right off their heads. (Who would want to get that close to a big polar bear, anyway???)

5. It's polar bears again. Grizzlies and black bears are omnivores, foraging for berries, grubs, fish and even game animals, when available. But polar bears are carni-

vores, and they eat mostly seals, but occasionally walrus (which are twice the polar bear's weight!), birds, and even beluga whales (approximately the same size as a polar bear)! A polar bear's cheek teeth are sharp so they can shear off chunks of meat. Their canine teeth are long, sharp, and widely spaced so they can seize and hold prey.

6. If you drive your SUV to a place where there are grizzlies, don't leave your lunch inside! Grizzlies have learned that SUVs are most likely to have a morsel or two -- and with their strong sense of smell, can detect even crumbs under the seat. They learn from each other how to grip a door and rip it off the frame, gaining access to whatever is inside. Black bears have also learned how to break into cars, so you also get credit if that was your answer. (PS - your comprehensive auto insurance will usually cover bear attack damages.)

7. Polar bears have black skin. But each hair is a clear hollow tube. Polar bears look white because each hollow hair reflects the light. On sunny days, it traps the sun's infrared heat and keeps the bear warm at 98 degrees F (when they're resting).



Science Discovery Weekends 12:30pm to 4pm

**OCTOBER 1ST & 2ND
COSMOS' BIRTHDAY BASH**

Party with our spokes-robot Cosmos on his birthday! Celebrate with sweet treats and coloring page fun. Cosmos is excited to have robot friends visiting, including DaVinci, the operational surgical robot (on Saturday) and FIRST robotics teams doing Lego & Tetrix demonstrations both days.

**OCTOBER 8TH - 10TH
HOME AWAY FROM HOME**

The Discovery Museum continues to celebrate 60 years of sensational science milestones. In 1998, the first two units of the International Space Station (Zarya and Unity) were sent into space. ISS information, movie and kids craft will be available.

**OCTOBER 14TH - START OF NEW ROBOTICS CLUB
(CALL FOR MORE INFO)**

**OCTOBER 15TH & 16TH
SPYING ON JUPITER**

In 1995, the Galileo probe entered the Jupiter system. In

the course of eight years, Galileo provided a wealth of knowledge about the giant planet. Kids can learn more about the Jupiter/Galileo relationship through our craft activity.

**OCTOBER 22ND & 23RD
THE GREAT CALIFORNIA SHAKE OUT**

The Discovery Museum is the Inland Regional Coordinating Institution for the Earthquake Country Alliance Education Centers. This weekend, explore the science of earthquakes & tsunamis and learn important survival methods through various activities.

**OCTOBER 29TH & 30TH
GOING BATTY AT THE DISCOVERY MUSEUM**

This Hallo-weekend, we are highlighting an infamous creature - BATS! Discover the science behind these nocturnal mammals. Enjoy a bat display & craft. On Sunday, Corky the Bat Lady will be conducting (45 min) presentations at noon & 2pm. *Space is limited. Arrive early to obtain a pass.*

