



**Chabot Space & Science Center**  
*"Your Place in the Universe"*

**June 2005 – September, 2005**  
**(Issued June 1, 2005)**

This document and all Chabot Space & Science Center news releases and photos may be found online at [www.chabotspace.org](http://www.chabotspace.org) under Press room.

**\*\* PUBLIC HOURS \*\***

**Through July 3; Hours resume Sept. 17**

Monday–Tuesday CLOSED  
Wednesday–Thursday, 10 am – 5 pm;  
Friday & Saturday 10 am – 10 pm; Sunday 11 am – 5 pm  
*Closed July 4*

**Summer Hours, July 5 – September 5**

Mondays Closed  
Tues–Thurs., 10 am – 5 pm; Fri.–Sat., 10 am –10 pm; Sun. 11am – 5 pm  
*Center Closed September 6 – 16 for annual maintenance*

**Telescope Viewing**

through Oct 30: Friday & Saturday, dusk – 10 pm (weather permitting)

**\*\* ADMISSION \*\***

\$13 Adult / \$9 Youth, Student & Senior  
Movies: \$8 Adult / \$7 Youth, Student & Senior  
*Sky Tonight & Sonic Vision* shows: \$8 Adult / \$7 Youth, Student & Senior  
Telescope viewing only: Free

**CHABOT SPACE & SCIENCE CENTER** — Indoor stargazing in Ask Jeeves Planetarium, outdoor viewing through telescopes, giant screen films in Tien MegaDome Theater, interactive exhibits and hands-on activities. 10000 Skyline Blvd., Oakland. (510) 336-7300. [www.chabotspace.org](http://www.chabotspace.org)

\* \* \*

**On the following pages:**

<b>Exhibits</b>	page 2
<b>Special Events</b>	page 3
<b>Hands-On Activities</b>	page 4
<b>Workshops &amp; Classes</b>	pages 5
<b>Planetarium Shows</b>	page 6
<b>Films</b>	page 7
<b>Facts and Directions</b>	page 8

10000 Skyline Boulevard  
Oakland, California 94619  
Phone: 510-336-7300  
[www.chabotspace.org](http://www.chabotspace.org)

## EXHIBITS

### **Mirror Mirror** — CLOSSES June 5, 2005

Direct from Switzerland, *Mirror Mirror* contains over thirty interactive exhibits from the internationally famed Swiss science museum, Technorama. In this exhibition, curved mirrors distort, shrink or magnify your reflection and a flexible flat mirror undulates to reflect an almost hallucinogenic wobbly world. From kaleidoscopes to mirror mazes to mirages, visitors of all ages can reflect on the intriguing and surprising world that exists just beyond the looking glass.

### **Solar-Go-Round** — OPENS July 9, 2005

Take a tour of the Solar System, from the radiant Sun and the ringed planet Saturn, to giant Jupiter and far-away Pluto. Discover what makes the planets go round, then design a solar system and launch your planets into orbit. Find out how rocks from outer space can change a planet's surface and climate, then try making craters yourself. Hunt for signs of water on other planets, find out about the weather on Mars and Titan, and learn how telescopes and robotic spacecraft are helping us explore our planetary neighbors.

### **Einstein's Telescope** — On display beginning July 9, 2005

Joining with many other museums in the celebration of the one hundred year anniversary of Einstein's famous 'Magic Year' of 1905, see a telescope that belonged to Einstein; learn about space, time, energy and matter in occasional demonstrations related to Einstein's work.

### **Space Artifact Restoration Lab** — OPENS early August, 2005

Get a behind-the-scenes peek as Chabot's collection of space artifacts is restored. Find out how spacesuits and other equipment work to protect astronauts from the harsh environment of outer space. Learn what conditions threaten the long-term preservation of these artifacts while they're here on Earth, and watch Chabot staff and volunteers as they learn each item's history and prepare these artifacts for future exhibitions.

## ONGOING EXHIBITS

**Destination Universe** — Take a journey from our Sun to the farthest reaches of the cosmos! Along the way, you'll see where stars are born, how they die, meet nebulae of all kinds, and travel to distant galaxies. Experience the Origins Theater; crawl into a black hole; see what happens when galaxies collide; and view stunning space images!

**Mars Encounter** — The exhibit features a four-foot tactile Mars globe, complete with craters and volcanoes; a Martian meteorite; a Martian Sci-fi theater; a Mars Mission Control where visitors can obtain data on current and past missions; videos of Rover missions; a wall-size mural embedded with quiz games; a vacation to Mars planning station and a play area for the younger crowd. Sponsored by the National Aeronautics & Space Administration, with additional support from Microsoft, Inc.

### **One Giant Leap: A Moon Odyssey**

For all astronaut wannabees— take a simulated Moon-walk, try on a space helmet, climb into a Mercury capsule, and land a lunar module in this new hands-on exhibit that explores the legends and science fiction about the Moon; the Space Race and the Moon landings; and the Earth-Moon system. Learn what the Moon is made of, how it affects the Earth, what causes Moon phases, gravity on the Moon, and more. You can even take a look at an ancient piece of the Moon up close! The exhibit includes space artifacts and replicas, from Sputnik and Mercury to Gemini and Apollo.

**A New Space Race: ANSARI X PRIZE** — Check out the latest rocket science and learn about the talented teams that competed for the ten million dollar prize in the international X Prize competition. Try "launching" a rocket yourself, place your vote on how much you would pay to travel into suborbital space, view short video clips from the competitors, and learn about engineering strategies used by each team.

**Astronomy In California 1850–1950: Telescope Makers, Telescopes, and Artifacts** — Explore California's rich astronomical history and Chabot Observatory's own 120-year history through a display of telescopes, artifacts, and the histories of their makers, on loan from the Smithsonian Institution.

**Skywise—Astronomy Cartoon Exhibit** — Have you ever tried to picture how far the Sun is from Earth? Or wondered what the skies would look like from another place on Earth -- or another place in our Solar System? This exhibit of astronomy comic strips provides an entertaining and informative vehicle for discovering and understanding astronomical phenomena. The exhibit is made possible in part through support from the Ask Jeeves Foundation and *Sky & Telescope Magazine*.

## **SPECIAL EVENTS**

### **Ice Cream in the Park**

Sunday, June 12, 11am – 3 pm

Tickets: \$10/adults, \$7/youth 12 and under. Available at the door or online at <http://asp.jaba.org/icecream/>

Enjoy unlimited ice cream and admission to Chabot's exhibits in this fundraising event for the Junior Achievement of the Bay Area. The day will be packed with ice cream contests, carnival games, special guests and a chance to win a year's supply of Dreyer's Ice Cream.

### **Deep Impact**

Sunday, July 3, 10 pm - Midnight

Tickets: \$8 Nonmember / \$6 Member; available at the Box Office, 510-336-7373

Get a historic first look inside a comet when the Deep Impact spacecraft fires an 800 lb impactor into Comet Tempel 1 and produces a crater that could range in size from the width of a large house up to the size of a football stadium and from 2 to 14 stories deep. Chabot staff will comment and interpret the broadcast from NASA TV and view a feed from the Chabot's telescopes aimed at the comet.

### **The Grand Tour: A Traveler's Guide to the Solar System**

Lecture by William K. Hartmann

Saturday, August 6, 7 pm

Tickets: \$7 Nonmember / \$6 Member; available at the Box Office, 510-336-7373

William K. Hartmann, internationally known scientist, writer, and painter, and winner of the first Carl Sagan Medal from the American Astronomical Society, will take you on a dazzling journey that combines lush art and up-to-the-minute science. His book features over 150 new, breathtaking, digitally-enhanced paintings that put you where no human has gone before. Combined with the latest satellite photographs, they provide the most complete and colorful portrait ever of our immense solar system

### **5th Anniversary Birthday Weekend**

Saturday, August 20 & Sunday, August 21, 11 pm – 2 pm

FREE with General Admission

Join us for free ice cream as Chabot Space & Science Center celebrates the fifth anniversary of its new home on Skyline Boulevard in Joaquin Miller Park. Win a prize in the raffle!

### **West Coast Live**

Saturday, September 24, 10am – 12 Noon (Doors open 9:30 am)

Tickets: \$15 or \$18 /adults, \$5/children 12 and under. Available at [ticketweb.com](http://ticketweb.com) or at the door.

Join us for a broadcast from Chabot's planetarium of this long-running variety radio show, hosted by Sedge Thompson. Sedge engages novelists, filmmakers, comedians, actors, and poets to talk about the cultural forces they are creating, and the source of their inspiration and features live music from musical styles from around the globe

Visit the Chabot Space & Science Center website at [www.chabotspace.org](http://www.chabotspace.org)

## **HANDS-ON ACTIVITIES**

### **Solar Car Racing**

Saturdays, June 11 & 25; July 16 & 30; August 13 & 27; 12:30 – 2 pm and 2:30 – 4 pm  
Tickets: \$5 per team/family. Age 10 and up. Available at the Box Office, 510-336-7373.

Start your engines! Come build and race a solar car. Prizes awarded for Best Design, Speediest, and Most Innovative. For the younger ones, a lego activity table is available for hands-on play.

### **Water Rockets**

July 1 – September 5, Tuesday – Sunday, 1 – 5 pm  
FREE with General Admission

Find out how high H<sub>2</sub>O can go as you launch your own bottle rocket into space. Learn about simple rocketry and don't get wet!

### **All Things Environmental**

July 5 – September 3, Tuesdays - Saturdays, times vary (see below)  
FREE with General Admission

Come join in the fun as Chabot's Environmental Team of staff, interns and volunteers help you explore some of the mysteries of planet Earth. You'll have the opportunity to learn more about Earth's atmosphere, solar energy, our surrounding redwood forest, and composting with worms. Build a solar car, take a hike in the forest, have fun with worms or learn about tornados and volcanoes.

#### **Tuesdays**

Worm Composting, 1– 4 pm; Envirogarden  
Atmospheres, Noon – 3pm; Rotunda

#### **Wednesdays**

Worm Composting, 1– 4 pm; Envirogarden  
Redwood Forest Exploration, Noon – 3pm; Rotunda

#### **Thursdays**

Solar Cars, 11:30 – 4:30 pm; Envirogarden  
Redwood Forest Exploration, Noon – 3pm; Rotunda

#### **Fridays**

Solar Cars, 11:30 – 4:30 pm; Envirogarden  
Atmospheres, Noon – 3pm; Rotunda

#### **Saturdays**

Various environmental activities, 11:30 – 4:30

### **Discovery Lab**

The Discovery Lab is a place especially for the younger crowd, ages 3–7  
FREE with General Admission; drop-in lab  
Summer hours begin July 5: Tues - Fri, 10:30 am – 4:45 pm; Sat, 10 am – 4:30 pm; Sun, 11 am – 4:30 pm  
(Tues – Sat closed for lunch 1:00 – 1:45 pm)

A hands-on, open lab, an environment where you and your child can interact through play and inquiry take time out to experience and explore, stop and think and wonder, spend time together, listen to a story, try on a costume, have fun with friends and clean up when done!

Visit the Chabot Space & Science Center website at [www.chabotspace.org](http://www.chabotspace.org)

## **WORKSHOPS AND CLASSES**

### **Teacher Training Workshops**

June 22 – August 10

Teachers grades pre- K – 12

Fee: \$20 per workshop. To register, call 510-336-7311 or visit [www.chabotspace.org/registration/workshop](http://www.chabotspace.org/registration/workshop)

From Book Arts to Einstein's Magic Year, Chabot offers a variety of teacher workshops to bring hands-on learning into your classes. These workshops include astronomy, environmental studies, computers, life sciences, chemistry & physics, writing, artwork and social studies and are tied to grade-appropriate state standards.

### **The Right Stuff : Challenger Learning Center Summer Camps**

July 5 - 8; August 15 - 19

Youth entering grades 6-8

To register, call 510-336-7311 or visit [www.chabotspace.org/visit/programs/summercamps.asp](http://www.chabotspace.org/visit/programs/summercamps.asp)

Do you have the right stuff to go to Mars? In this simulated space mission, we provide a week of intensive morning trainings that cover what it takes to become an astronaut, what you might expect to see and do if you were the first astronaut to land on Mars, what our solar system looks like and how you might get a glimpse of it. After training, we'll send you to Mars! You'll get to see first hand how you measure up! Then we'll send you on a mission where you will send a probe thru the tail of a comet! When the dust settles, you'll know if you do indeed have "The right stuff."

### **Space Explorers Summer Camps**

July 11 – August 26

Youth entering grades 1-8

To register, call 510-336-7311 or visit [www.chabotspace.org/visit/programs/summercamps.asp](http://www.chabotspace.org/visit/programs/summercamps.asp)

Send your children on an unforgettable summer adventure! Your junior scientist can explore the Moon, have fun in the Sun, create chemical concoctions, learn all about stars, encounter Mars and more. All camps include a planetarium and theater show. Half-day camps run from 9am - Noon and 1 pm - 4 pm. Full-day camps run from 9am - 4 pm. Camps include Kitchen Chemistry, Cosmic Camp, Spaceship Earth, Star Light-Star Bright, Mars Camp, Disaster Camp, Fun in the Sun, and Robotics. Fees vary depending on Chabot member status and registration date (ranging from \$200 - \$255 for half-day and \$350 - \$380 for full day). Discounts given for multiple sessions. Extra fee for after hours care, 4pm - 5 pm.

### **Adult Observational Astronomy Class**

Sunday evenings, September 18 – October 23, 7:30 pm – 10 pm

Fee: \$65 for members, \$75 for non-members; Reservations required. Class space is limited, so reserve your place early!

To register, call 510-336-7311 or [ngillespie@chabotspace.org](mailto:ngillespie@chabotspace.org).

A six-week astronomy course designed especially for adults who want to learn more about observing with telescopes and binoculars. This hands-on class will cover the mechanics and characteristics of telescopes & binoculars, constellation and object identification, and the use of star charts. Using Chabot's portable telescopes, participants will learn the skills used to enjoy the night sky.

**Visit the Chabot Space & Science Center website at [www.chabotspace.org](http://www.chabotspace.org)**

## ASK JEEVES PLANETARIUM SHOWS

***New full-dome video projection system opens July 16, 2005***  
*(Planetarium will be closed June 20 – July 15 for installation)*

### **NEW—Full-Dome Digital Shows Open July 16:**

**Sonic Vision** — Sonic Vision is a trip out of this world and into the minds of the universe's most creative musical artists and digital animators, set to a soundtrack featuring today's coolest music. This mind-warping roller-coaster ride is mixed by Moby and features tracks from Radiohead, U2, David Bowie, Coldplay, Queens of the Stone Age, Prodigy, The Flaming Lips, Fischerspooner, Spiritualized, Audioslave, Stereolab, Boards of Canada, David Byrne and Brian Eno, Goldfrapp, Zwan, White Zombie, and Moby. The show uses next-generation digital technology to illuminate the Planetarium's dome with a dazzling morphing of colorful visions in this one-of-a-kind computer-generated musical and visual experience. *Sonic Vision was developed by the American Museum of Natural History in collaboration with Moby and in association with MTV2. Sonic Vision is made possible by generous sponsorship and technology support from Sun Microsystems.* (38 min) Portions of the show feature loud music and large fast moving images that may startle small children.

**The Search for Life: Are We Alone?** — Narrated by Academy Award-nominated actor Harrison Ford, this engrossing immersive theater experience whisks you on an incredible journey in search of the answer to this most intriguing question. This exhilarating voyage from the depths of Earth's oceans to the outer reaches of the cosmos features breathtaking visualizations—many seen for the first time—such as a brilliant panorama of deep space, a walk on Mars and a dramatic visualization of the formation of our own fragile planet. *The Search for Life: Are We Alone? was developed by the American Museum of Natural History in collaboration with the National Aeronautic and Space Administration (NASA).*

**Secret of the Cardboard Rocket** — Two young adventurers turn an old cardboard box into a rocket and with the help of a magical book and their vivid imaginations blast off on an awesome journey to the most amazing places in the Solar System. Gasp in amazement at the huge planet Jupiter, find out what Saturn's rings are made of and discover the secret of the cardboard rocket. The show has been upgraded for digital full-dome systems and provides an excellent introduction to the nine planets of our Solar System. Especially for ages 5 – 10.

### ***Closing Shows:***

**Other Worlds! Other Beings?** — (Closes June 19) — If aliens really are out there, what would they be like? Join a team of scientists in their search for other worlds and their thinking inhabitants. *Written and developed by the SETI Institute*

**Sky Quest** — (Closes June 19)— Come along with a young woman on her personal quest to find a special place in the night sky, from her childhood adventures on "Mars" (via a cardboard rocket), to the discovery of her "birthday star" that led her to become an astronomer and build a mountain observatory. Narrated by Roxanna Dawson, who played B'Elanna Torres of TV's *Star Trek: Voyager*.

### ***Continuing Shows:***

#### **The Sky Tonight**

Presented live and in the new digital format, the show is a current look at the stars, constellations, and planets from our perspective here in Oakland. The content of this show changes monthly. (40 min.)

#### **Sunshine**

This 15 minute-long program lets the younger set interact with our closest star, The Sun, as he takes them through a quick look at the work he does all day and the many friends he has—the other stars! (15 min)

**For showtimes, visit the Chabot Space & Science Center website at [www.chabotspace.org](http://www.chabotspace.org)**

## **TIEN MEGADOME THEATER**

### **Solarmax — (Opens July 9, 2005)**

Featuring live images of the Sun and footage from around the world of solar observatories of the past, present, and future, *SolarMax* tells of humankind's struggle to understand the Sun. Travel around the world to visit historical sites of sun worship, see scientists studying the Sun, and view the majesty of a total solar eclipse. (40 min)

### **ONGOING SHOWS:**

**Forces of Nature** — Witness the awesome power and the unimaginable destruction of explosive volcanoes, ground-buckling earthquakes, and deadly tornadoes as you head into the field with scientists who risk their lives exploring the origins and behaviors of these fearsome natural disasters. Narrated by Kevin Bacon. *A National Geographic Film, produced by Graphic Films, made possible by Amica Insurance and funded in part by the National Science Foundation.* (40 min)

### **Cosmic Voyage**

A breathtaking journey through time and space! Zoom from the surface of the Earth to the largest observable structures of the Universe, and back down to the sub-nuclear realm—a guided tour across some 42 orders of magnitude! Explore some of the greatest scientific theories, many of which have never before been visualized on film. *Cosmic Voyage* was nominated for an Academy Award® in the Best Documentary Short Subject Category. (40 min)

### **The Human Body**

The incredible story of our inner universe and looks at the daily biological processes that go on without our control and often without our notice. Peek inside and follow a tomato on its journey to the biological blender of our stomach, accompany a red blood cell on its journey to the heart and see the cells inside of an ear dance to music. *A presentation by The Learning Channel (TLC) and BBC Worldwide of a Discovery Pictures/BBC co-production done in association with the Maryland Science Center and the Science Museum, London, with major funding provided by the National Science Foundation and distributed by nWave Pictures Distribution.* (43 min)

### **The Living Sea**

Take an action packed journey to the depths of the ocean. Swim with jellyfish and whales, surf thundering waves, and meet strange creatures living at the bottom of the sea. Featuring songs and music by Sting and narrated by Meryl Streep. *Produced by MacGillivray Freeman Films* (45 min)

For showtimes, visit the Chabot Space & Science Center website at [www.chabotspace.org](http://www.chabotspace.org)

## CHABOT SPACE & SCIENCE CENTER FACTS

- Location:** 10000 Skyline Blvd., Oakland (in the Oakland Hills)
- Hours:** **Regular Hours:** Closed Mondays & Tuesdays; Wednesday–Thursday, 10 am – 5 pm; Friday–Saturday, 10 am – 10 pm; Sunday, 11am – 5 pm  
**Summer Hours, July 5 – Sept. 5:** Closed Monday; Tuesday–Thursday, 10 am – 5 pm; Friday–Saturday, 10 am – 10 pm; Sunday, 11am – 5 pm  
(Closed July 4, Thanksgiving & Christmas; Open New Year’s Day and other major holidays)  
**Telescope Viewing:** Through October 30: dusk – 10pm
- Admission:** **General admission** (includes a Planetarium show and free parking): \$13 Adult / \$9 Youth (ages 4-12), Students and Seniors (65+); Children 3 and under admitted free  
**MegaDome Theater Show only** — \$8 Adult / \$7 Youth, Student & Senior  
**Sky Tonight and Sonic Vision Planetarium Shows** — \$8 Adult / \$7 Youth, Student & Senior
- Tickets:** Tickets may be purchased at the door, or by calling (510) 336-7373.
- Celestial Cafe:** Snacks available. Indoor and outdoor seating. Hours: Tues – Fri, 10:30 – 2:30; Sat, 10 – 7; Sun, 12 -5
- Disabled Access:** Chabot Space & Science Center is wheelchair accessible. A limited number of wheelchairs are available without charge on site. Designated parking is available near the main entrance.
- Parking:** Convenient free parking is available in the adjacent parking structure or in the Knoll Lot off Skyline Blvd. Spaces for disabled visitors are located near the main entrance (outside of parking structure).
- Directions:** **\*\* Please Note: Public transportation via AC Transit is no longer available\*\***  
**From downtown Oakland or San Francisco:** Go east on I 580 to Highway 24 (towards Walnut Creek). From 24, go south on Highway 13 (Warren Freeway) towards Hayward. Take the Joaquin Miller/ Lincoln Avenue exit. Turn left and proceed up the hill on Joaquin Miller to the crest, then turn left at the signal onto the two-lane portion of Skyline Blvd. Chabot Space & Science Center is 1.3 miles up Skyline on the right.  
**From eastern Berkeley, Orinda etc.:** Go south on Highway 13 (Warren Freeway) towards Hayward. Take the Joaquin Miller/ Lincoln Avenue exit. Turn left and proceed up the hill on Joaquin Miller to the crest, then turn left at the signal onto the two-lane portion of Skyline Blvd. Chabot Space & Science Center is 1.3 miles up Skyline on the right.  
**From Hayward, Castro Valley and points East:** Go west on I 580 and take the Highway 13 (Warren Freeway) turnoff. Take the Joaquin Miller/Lincoln Avenue exit. Turn right, and proceed up the hill on Joaquin Miller to the crest, then turn left at the signal onto the two-lane portion of Skyline Blvd. Chabot Space & Science Center is 1.3 miles up Skyline on the right.
- Info Phone:** (510) 336-7300
- Website:** [www.chabotspace.org](http://www.chabotspace.org)

Visit the Chabot Space & Science Center website at [www.chabotspace.org](http://www.chabotspace.org)