

Encounters

Family Fun Nights, Featuring Stargazing

Saturday evenings, activities start at 6:30 pm. Stargazing show begins at 7:30 pm

- April 3 • May 29
- June 19 • July 10

Free with admission to the Center, which is \$6 for adults; \$4 for seniors and children ages 6-18; free for children under age 6. Challenger members are free. Hot dogs, chips and soda are an additional nominal fee.

StarLab Indoor Planetarium

All shows are on Saturdays at 11:30 am and 12:30 pm

- April 10 and 17
- May 1 and 15
- June 12 and 26
- July 3 and 17

Admission is \$4 per person, which is in addition to admission to the Challenger Center. General admission to the Center is \$6 for adults; \$4 for seniors and children ages 6-18; free for children under age 6. Challenger members are free. Stargazing and StarLab are presented at the Challenger Space Center by Tony and Carole LaConte of Stargazing for Everyone.

Telescope Stargazing Classes-Three Night class

- June 1st, 8th and 15th

This is a "hands-and-eyes-on" three-night class under the stars, where participants use telescopes and binoculars to learn about the evening sky. Learn how to set up and use a telescope, and observe detailed views of craters on the moon, the cloud bands of Jupiter, the rings of Saturn and galaxies millions of light years away. Telescopes and binoculars are available for use or participants may bring their own. Simple techniques for photographing the night sky and the moon will be discussed; photographic equipment will be available for use or participants may bring their own. Registration required prior to June 1. Class is 7:00-9:00 pm. \$30/person for the three-night class. 10% discount for Challenger Space Center members. Call 623.322.2001 to register. Class repeats on July 7, 14 and 21, and again on August 5, 12 and 19.

Link2Liftoff Writer/Editor
Paula Hubbs Cohen
pcohen@azchallenger.net

Come Celebrate the Spirit of America!

July 1942: United We Stand Smithsonian Traveling Exhibition April 3 – June 14, 2004

"United We Stand" is a rallying cry that has comforted the American people since the American Revolution. Following the terrorist attacks on September 11, 2001, the flag and the "United We Stand" slogan have renewed meaning for many Americans.

In July 1942, seven months after the attack on Pearl Harbor, magazines featuring the American flag appeared on newsstands nationwide. The "United We Stand in July 1942" campaign came about when Paul McNamara, a publicist for Hearst Corporation and an editor of *Cosmopolitan*, presented his vision of newsstands featuring a sea of American flags, to the National Publishers Association (now the Magazine Publishers of America).

July 1942: United We Stand features 88 original magazine covers from 1942. This beautiful exhibit, developed by and originally on view at the Smithsonian's National Museum of American History, celebrates this patriotic endeavor of yesteryear and provides a rare glimpse of this campaign designed to boost morale on the homefront and to demonstrate the power of magazines to inform the public. Participating magazines represented nearly every subject and class of publication, from *Ladies Home Journal* to *Walt Disney's Comics*. *Time*, *National Geographic* and *Reader's Digest* were among the publications that broke from their traditional cover designs to incorporate the flag. Designers used the covers to illustrate American



military and industrial power, patriotism on the homefront, pride in the beauty of the natural environment and the elegance of the flag. The covers are as unique and specialized as the magazines that featured them. Many of the covers are from the collection of Katy and Peter Gwillim Kreidler, who have amassed more than 300 of the original July 1942 covers. The Presenting Sponsor of the United We Stand exhibit is Pulte Homes and Del Webb Communities. The Associate Sponsor is the Peoria Arts Commission.

The Challenger Space Center is offering special discounted group tours for this patriotic exhibit. Call 623.322.2037 to book a group tour today.

Members only benefit:

Special breakfast and Sneak Preview: Saturday, April 3, 9:00 - 10:00 am.

New Interactive Website Launched!

Please take a moment to visit the new Challenger Space Center website, designed by Graphique Communications Design and hosted by Arizona Web Services. Visit the site to sign up to receive information on special gift shop offers, space events, exhibits and activities through our "Emails From

Space!" feature. The site now includes an extensive Calendar of Events, listing dates of Stargazing events, Indoor Planetarium shows, Exhibits and much more.

This revitalized site also incorporates several new features including:

- Kids' Corner
- Educators' Corner
- Newsroom

- What's New in Space
- Multi-media library
- Online donor area
- Online registration for public programs
- Online volunteer application
- Testimonials/Awards
- Email newsletter sign-up

Giving

We thank the following individuals, businesses, corporations, foundations and organizations for making gifts of financial support to the Challenger Space Center totaling \$116,875 since December 1, 2003. Gifts made after March 1 will be recognized in our next newsletter.

American Express
American Legion Post #26, Mesa
APS
Arizona Education Association Foundation
The Arizona Republic/12 News
Season for Sharing
Arizona School Administrators
Arrowhead Towne Center
Miles Baidack
Max and Sherry Beal
Thomas and Linda Bromert
J.D. and Colleen Campbell
Cardinals Charities
Central Arizona Speculative Fiction Society
Citistreet
Mark Cohen and Paula Hubbs Cohen
Cox Charities
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Sally Douglas
Lester and Sybil Dray
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Fiesta Events, Inc./The Fiesta Bowl
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Burt and Joan Johnson
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Herman and Katie Orcutt
Rodney Ossowski
Peoria Diamond Club
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Phoenix Rotary Club 100
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Alex P. Spanos/The Spanos Companies
Sun Country Credit Union
Jane Triplett
John and Kelsea Vescova
Vistancia
Esther Voorsanger
Richard and Gloria Warnick
The Whiteman Foundation
Ruth Whiting

New Members

The following people have joined or renewed as members of the Challenger Space Center since our last newsletter. Welcome to our "family" and thank you!

Charleen Henderson	Marcheta Hagen	Kelvin Haga	Shawn Rix
Karl & Betty Ecklund	Maria Levine	Charles Sands Family	Ed Walker
Pamela Logan	Betty Pearlman	Grace Peterson	Shawn Heidinger
Tania Marcinkowski	Jane Triplett	Esther Voorsanger	Gail Manginelli
William Goodheart	Elizabeth Teeson	Mary Howe	John Meschberger
James & Carol Lillie	Marvin Nasses	Ray Algiers	Channing Funk
Laura Blank	Linda Upton	Ken Hicks	Jon Bartlett
Kim Sapp	Bruce & Jacky Rosch	Evelyn Kong	Gordon & Sally Barnes
Mark Hubler	James O'Laughlin	Charles Kelch	Jared Thompson
Troy Ahlquist	Ruth Daly	Joseph Jakubowski	Marla Jasmin
Kathryn Ybarra	Richard Hess	Cdr. Frank Green	Kent Davis
Patricia Houser	Thomas Haga	Bridgette Grey	Alta Ritchardson
Herb Jacobson	John Shoman	Vernita & Bob Winikka	Robert Cook Jr.
Debra Brown	Don Doerres	Sharlene Richards	Michelle Howard
Ong Family	Thad McCloud	Col. Walter Urbach Jr.	
Rebecca Upsahl	Richard Rodgers	Ann & Don DeSandro	

Corporate Members

ACSS City of Peoria Northern Trust The Arizona Republic

The Challenger Space Center would like to thank the following merchants for their contributions of gift certificates for our Volunteer Recognition Holiday Party

Arrowhead Country Club	Olive Garden	The Lakes Restaurant
Elephant Bar Restaurant	Red Lobster	Top Shelf Mexican Food
Firebirds Rocky Mountain Grill		

In-Kind Support

Special thanks for in-kind support from Digital Imagery, photographer Hayden Houser and Graphique Communications Design Shoot Director, Doron Krinetz. The Challenger Space Center held a special photo shoot on March 7, 2004 for new marketing materials, utilizing their professional services.



Smithsonian Education Conference a Sellout!

By Brandi White, Challenger Space Center Marketing Intern

Nearly 200 of the Valley's dedicated teachers attended this year's Smithsonian Education Conference, held February 6, 2004. Speakers included Tom Horne, Arizona Superintendent of Public Instruction and Jane Robertson, 2004 Arizona Teacher of the Year. In addition, there were presentations from scholars from four Smithsonian national museums, who partnered with experts from local museums. Educators experienced first-hand, innovative techniques that partner art, science and their joint contribution to fueling the fire of knowledge in their classrooms. A great thanks goes out to our sponsors: Citistreet, APS, Cox Communications and the Arizona Education Association (AEA) Foundation, as well as the many others who helped make this event a memorable success.

Mercury Spacecraft Exhibit— Celebrating the United States' First Man-in-Space Program

May 31 – September 15, 2004

Before the Apollo program, before the Space Shuttle, there was Project Mercury.

Initiated in 1958 and completed in 1963, Project Mercury was the United States' first man-in-space program. The objectives of the program, which made six manned flights from 1961 to 1963, were very specific: to orbit a manned spacecraft around Earth; to investigate man's ability to function in space; and to recover both man and spacecraft safely.

Mission accomplished.

From May 31 through September 15, 2004, the Challenger Space Center will feature an exhibit of a full-scale replica of a Mercury Spacecraft, on loan from the Kansas Cosmosphere and Space Center in Hutchinson, Kansas. This high fidelity replica of the six feet by six feet Mercury spacecraft is an exact representation of what the actual Mercury spacecraft looks like. Vistancia is the Presenting Sponsor of the Mercury Spacecraft exhibit.

The exhibit includes the following:

Mercury Spacecraft: full-scale, complete with cockpit and astronaut

Mercury Shingle: removed from outer skin of Mercury Spacecraft #2



Atlas Rocket Engine: first-stage rocket engine of the type used to launch America's first orbital astronauts

Blockhouse Blast Window: removed from the Blockhouse used to launch America's first astronauts and first satellites

Atlas Vernier Steering Rocket Engine: gimbaling steering engine used on the Atlas

Mercury Earth-Orbit Chart: used in Mission Control in 1961

Atlas Rocket Fragment: recovered outer skin fragment from Atlas used to launch astronaut John Glenn

There is education curriculum available for this exhibit, so teachers are encouraged to schedule Mercury Exhibit field trips by calling the Challenger Space Center Education Program Scheduler, at 623.322.2037.

Members only benefit: Attend a special breakfast and "Sneak Preview" of this exhibit. Invitations will be mailed to all members in early May.

Launching Adventures in Space Summer Camps!

The Challenger Space Center is go-for-launch for Adventures in Space Summer Camps! The Astro-Tots Adventure is for PreK-Kindergarten; Mercury Adventure is for grades 1-2; Gemini Adventure is for grades 3-5; and Apollo Adventure is for grades 6-9. Highlighting this year's camp sessions is the all-new Skylab Advanced Adventure for ages 14-17, which includes a trip to the Kennedy Space Center in Florida, where campers will participate in the Astronaut Training Experience program, meet real astronauts, tour launch facilities and visit the Astronaut Hall of Fame along with many more exciting activities.



Complete camp descriptions, along with Adventures in Space summer camp registration forms, are available on www.azchallenger.org. Camp descriptions and registration forms can be downloaded and emailed or faxed to the Center. The first camp session begins on May 31, while the final camp session is the week of August 2. Each camp session is one week long. Camps for pre-kindergarten through second grade are half-day and cost \$100 for the week; camps for grades 3-9 are full day and cost \$200 for the week, except for the Skylab Advanced Adventure, which is \$985 for the week. Challenger Space Center members receive a 10% discount on all camp fees, except the Skylab Advanced Adventure.

CORPORATE MEMBERSHIPS

You can inspire the young minds of a new century!

The Challenger Space Center has introduced a Corporate Membership initiative aimed at securing 100 businesses interested in supporting education and student achievement in math, science, technology and workplace skills.

The cost of a Challenger Space Center corporate membership is \$2,500, of which 80% is tax deductible. While memberships can be customized by the Development Office to meet the needs of individual businesses, all Corporate Memberships include 50 free General Admission passes, 50 free Stargazing passes, discounts on Corporate Missions and Facility Rental packages and more. There are significant marketing benefits available to our Corporate Members.

For more information on Challenger Space Center Corporate Memberships, contact Rod Ossowski, Challenger Director of Development, at 623.322.2041 or rossowski@azchallenger.net.

SPACE DAY MAY 6, 2004

Presented by Lockheed Martin, the Challenger Space Center is pleased to host a one-day celebration for Space Day 2004. Schools visiting the Challenger Space Center on this day will enjoy special programs, speakers and free space giveaways. To register, contact the Challenger Space Center Education Program Scheduler at 623.322.2037.

BOARD MEMBER SPOTLIGHT

This month's Board spotlight is on City of Peoria Mayor John Keegan. Mayor Keegan has been very supportive of the Challenger Space Center since its inception, and was instrumental in helping the Center become the first Smithsonian Institution Affiliate in metropolitan Phoenix. In 1996, the City of Peoria became one of the first contributors to help build the Challenger Center.

The City and the Peoria Arts Commission have provided important continuing financial support to the Challenger Space Center, totalling nearly \$300,000. Each year since our opening, the Peoria Arts Commission has supported a major exhibit here at the Center, including the upcoming Smithsonian exhibit, *United We Stand*, profiled on the front page of this newsletter.

The City of Peoria provided support for Smithsonian Teachers Night in September 2003, helping us create the opportunity for over 800 teachers to come to the Challenger Space Center to view exhibits and receive free information and curriculum from the Smithsonian Institution, NASA and the Challenger Center to help them back in their classrooms. The City of Peoria recently purchased one of the first Challenger Space Center Corporate Memberships, and currently Mayor Keegan is working to help the Challenger Space Center receive federal financial support from NASA.



NEW THIS YEAR! The Skylab Advanced Adventure, Ages 14-17 Fly to Kennedy Space Center in Florida!

This brand new and exciting, weeklong program will take campers to the center of American space flight activity, Kennedy Space Center (KSC) at Cape Canaveral, Florida! On Monday, team members meet at the Challenger Space Center to begin training and preparing for the trip. Departure for Florida takes place on Tuesday morning from Sky Harbor Airport. At KSC, crew members will take on the role of an astronaut or mission controller in the Astronaut Training Experience program, which includes a simulated Space Shuttle mission to the International Space Station, astronaut-style training and the opportunity to meet real astronauts. Campers will take tours of the launch facilities, watch an IMAX® movie, visit the Astronaut Hall of Fame and see the Space Mirror Memorial, commemorating those who have given their lives pursuing the dream of space. The program is open to anyone 14 to 17 years old at the time of the trip. Price of \$985 includes airfare, three meals a day while in Florida, hotel lodging and all listed activities.



Full details and registration forms for all Summer Camps are available on www.azchallenger.org.



**COMING IN OCTOBER 2004—
FIRST TIME TO THE SOUTHWEST!
SMITHSONIAN HUBBLE SPACE
TELESCOPE EXHIBIT**

OCT. 16 – DEC. 26, 2004

The Smithsonian Institution Traveling Exhibition Service (SITES) and the Space Telescope Science Institute present *Hubble Space Telescope: New Views of the Universe* at the Challenger Space Center. This extraordinary exhibition allows visitors to experience the universe through the eyes of the world's best known observatory – the Hubble Space Telescope.

Featuring the best of Hubble's breathtakingly beautiful images, *Hubble Space Telescope* employs videos and interactive components to take visitors on a tour of the universe and to let them experience other planets, exploding stars, ancient galaxies and black holes. The Presenting Sponsor of the Hubble Space Telescope exhibit is Lockheed Martin Integrated Systems and Solutions. The Associate Sponsor is Southwest Airlines.

Visit www.azchallenger.org frequently for updates about the Hubble Space Telescope Exhibit.

**THE CHALLENGER SPACE CENTER
WOULD LIKE TO EXTEND OUR
THANKS TO THE FOLLOWING
MEMBERS OF THE UNITED WE
STAND ADVISORY COMMITTEE**

- Barbara Fennema**, Challenger Space Center Volunteer
- Ron Smith**, Challenger Space Center Volunteer
- Bob Ware**, Executive Director, Peoria Chamber of Commerce
- Dick and Verne Welsh**, Challenger Space Center Volunteers

Educators' Corner

Reduced Training/Preparation Time: We've reduced training times for new teachers from 8 hours to 4 hours. Returning teacher training time is optional (except for e-Mission: Operation Montserrat). Lessons have also been reduced from 6 weeks and 16-21 lessons to 9-10 classroom activities.

Enhanced Website Features: Visit our new Educators' Corner on www.azchallenger.org for frequent additions and updates to enhance your classroom activities.

Educator Memberships: These specially discounted packages feature out-of-this-world benefits including 35 free stargazing passes; free boarding passes for public missions; free personal admission to the Center for tours, Stargazing events or indoor planetarium shows for an entire year; and more! Full details are on www.azchallenger.org.

School Year Kickoffs: Gather your school faculty here to kickoff the school year in our out-of-this-world environment. At the end of the year, say hello to summer with a space-themed faculty party.

Classroom Scholarships: Let us help you send your students to space! Apply for a Challenger Space Center Scholarship to help fund your mission. Visit www.azchallenger.org for guidelines and to download application forms.

Special Curriculum: We have curriculum and education materials designed around each of our new exhibits. Book your field trips now for the United We Stand, Mercury and Hubble Space Telescope exhibits.

New Field Trip Programs! New activities have been developed for Field Trip programs for students in PreK through 10th grades.

- **Space Place (PreK-K):** Our youngest space "kid-etts" enjoy space themed storytime, age-appropriate activities, designing/creating space helmets, songs and videos and a gentle shuttle launch in our Earth Space Transit Module.
- **Destination Space Station (1st-2nd graders):** These young astronauts take studies of the solar system further and learn about space transportation vehicles, focusing on the shuttle and the International Space Station. Students use teamwork to build their very own Space Station, and learn space facts, design/create unique space helmets and more.
- **To Be An Astronaut (3rd-10th graders):** These older space enthusiasts tour the high tech, high touch Challenger Space Center and participate in hands-on activities to learn about what it takes for an astronaut to live and work in space. They also participate in teambuilding activities that enhance their understanding of astronaut training. These programs are designed to meet educational standards for 3rd-10th grade science and include an extension lesson to take back to the classroom.

For information on how your child's classroom can participate in one of our exciting field trips, contact the Challenger Space Center Education Program Scheduler at 623.322.2037.

Volunteer Spotlight Shining on The Stargazing Team!



Jerry and Barbara Fennema

Once a month, the Challenger Space Center hosts a fun-filled family evening featuring space-themed events and games, along with an entertaining, interactive Stargazing program using high-powered telescopes and digital imagery from the Hubble Telescope. This unique Stargazing party is hosted at the Challenger Space Center by Tony and Carole LaConte of Stargazing for Everyone.

The Stargazing Volunteer Team consists of several individuals who are dedicated and knowledgeable ambassadors for the Challenger Space Center. They each generously donate their time, with most of them bringing their personal telescopes for use by the public. These volunteers are a valuable resource for the Challenger Space Center, but more importantly, they are dedicated to sharing their knowledge about stars, planets and faraway galaxies with space enthusiasts of all ages.

The Challenger Space Center Stargazing Team members include:

- | | |
|----------------------------------|---|
| Jim and Vicki Palmer | Steve Dermer |
| Barbara and Jerry Fennema | Bart Ré |
| John Caprino | John and Sara Meschberger (age 13) |
| Rick Gutridge | |

Challenger Space Center Board of Directors

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**Looking for an exciting Summer Camp for your young astronaut?
Mars is currently taking reservations - Details inside!**

Information: 623-322-2001 or www.azchallenger.org
Hours: Monday-Friday 9 a.m. - 4 p.m.; Saturday 10 a.m. - 4 p.m.
Admission: \$6 Adults, \$4 Seniors and children; free for age 6 and under.
Link2Liftoff is a quarterly publication of the Challenger Space Center.

21170 N. 83rd Ave., Peoria, Arizona 85382



- ★ Best Science Lesson, The Arizona Republic
- ★ Best Place to See Stars, The New Times
- ★ West Valley Treasure, WESTMARC Voter's Award

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