

Skywriting



Skypwriting



A picture of the vast grounds of the Pima Air & Space Museum. Photo courtesy of Scott Youman.

On the Cover: Our Boeing EB-47E Stratojet. Photo courtesy of Scott Youman.

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CONTACT PASM

www.pimaair.org
520.574.0462
info@pimaair.org

MUSEUM HOURS

9 a.m. to 5 p.m.
Last admittance at 4 p.m.

Closed Thanksgiving and Christmas Day

TOURS

Tram Tour:

Daily 10 a.m., 11:30 a.m., 1:30 p.m.
(and 3 p.m. November - May)

"Boneyard"/AMARG Tour:

Monday-Friday, excluding Federal
Holidays. Call 520.574.0462 for
current times. Governemnt issued
photo I.D. required.

Docent-led Walking Tours:

Main Hangar: Daily 10:30 a.m.
(and 1:30 p.m. November-May)
WWII Hangars: Daily 11:30 a.m.
(and 2:30 p.m. November - May)

CONTACT TMM

www.titanmissilemuseum.org
520.625.7736
info@titanmissilemuseum.org

WINTER MUSEUM HOURS

(November - April)
8:45 a.m. to 5 p.m.

Closed Thanksgiving and Christmas Day

SUMMER MUSEUM HOURS

(May - October)
Sunday - Friday 9:45 a.m. to 4 p.m.
Saturday 8:45 a.m. to 5 p.m.

TOURS

Docent-led Walking Tours:
Daily starting at 9 a.m.

From the Chairman's Desk



I would like to wish you all a very Happy New Year and thank you for all of your ongoing support for the Arizona Aerospace Foundation and its two world class museums, The Pima Air & Space Museum and the Titan Missile Museum.

The past year, 2015, was one of the most memorable we have ever had. We saw record attendance with a significant increase in our overseas visitor numbers. The desert southwest has a certain mystique around the world and this region has so much to offer a tourist looking for an extraordinary holiday. We are expecting this trend to continue as word of our museums continues to spread through advertising, word of mouth, documentary specials, radio, podcasts, websites and so forth.

Many of you are aware that we have been busy with construction projects once again as we near completion of our fifth display hangar; this one will be themed to the war in the Pacific as we have an extensive collection of aircraft that saw operational service in this theatre during WWII. To bolster our exhibits, we have acquired new aircraft which will be added to the gallery as their restoration is completed. A significant example is our acquisition of a Consolidated PB4Y Privateer, which is a retired aerial firefighting aircraft that we will exhibit in its 1945 USN military configuration as it saw action in the North Pacific in July and August 1945.

However, we are not just a military museum. In fact our charter has always been to exhibit and interpret the breadth of aerospace technology and the stories of the men and women that create and use them. This past year we were very fortunate and honored to be selected by The Boeing Corporation to be one of two recipients of a prototype B787 Dreamliner for permanent display at the museum! In conjunction with its delivery we hosted an opening of our new and extensive 'Joyce Corrigan Women in Flight' Exhibit in our main entrance gallery. The exhibit was opened by our local Congressperson, Rep. Martha McSally, USAF (Ret), along with other distinguished women aviators.

The Titan Missile Museum continues to be a jewel of an attraction in the region. We have had the opportunity to do some work in the main silo that enabled us to install an HVAC unit. This has been very significant as it allows us to better control the temperature and humidity in the historic complex and that is important for its continued preservation and to create a stable internal environment.

Be sure to come and visit us again – we are always changing and growing and that is only possible because of your support.

A handwritten signature in black ink, appearing to read 'Gerrit', written in a cursive style.

In Memoriam

The Arizona Aerospace Foundation offers its sincere condolences to the families and friends of departed Pima Air & Space Museum and Titan Missile Museum volunteers.

*Howie Cosyns
Pete Dewhirst
Ted Dore
Orville Doughty
John Edris
Buck Gelsinger*

*Earl Larsen
Tom Leong
Stan Miller
Bill Minor
Tim Mitman
Joe Pacholec*

*Phillip Place
Robert Sprague
Robert Strand
Leon "Lee" Tracy
Leonard "Bud" Wolfe*

From the Executive Director



Happy New Year! As the Count has already indicated, we had a fantastic year in 2015 at both museums and I have no doubt that 2016 will be just as successful and exciting. This year is also a milestone anniversary for us. It has been forty years since we first opened our gates for business on May 8, 1976. Since that first day with 48 aircraft in our collection we have grown to exceed 325 unique aircraft! I wonder what we will look like at fifty?

Just this past week we were able to open a new playground here for our restless guests under the ages of 12 to enjoy themselves on; this was made possible through several generous donations as well as a grant from the equipment manufacturer

and operational funds from the museum. We are very conscious that our visitors come in all ages and it is important to have a break when you are learning something.

In the late spring we should be ready to do a soft opening of our new hangar once all the construction is finished. We will have a few months to install new exhibits and aircraft as they complete restoration. We are all very excited by this new gallery as it will enable us to showcase aircraft and artifacts in a purpose built dedicated space.

In April we will have our annual 'Great Paper Airplane Fly Off' competition that is made possible through the generous support of Mars North America Inc. Be sure to get updates on the website and come out for a terrific day of friendly competition.

As many of you now know the much anticipated civic bond election held this past November failed to pass with Pima County voters. The Pima Air & Space Museum was slated to receive four million dollars in support for our next expansion project, which is a 150,000 square foot display building. We have not lost sight of this goal – which is important for our long term preservation and exhibition requirements – and the museum is evaluating our options to keep on track to achieve this expansion. We will keep you informed as we progress with our plans.

This year is also the Biennial Davis-Monthan Air Force Base Air Show. This event is always popular with Tucsonans and we will be exhibiting a few of our aircraft on the display row as well as being represented by our fantastic volunteers at an information booth. The USAF Thunderbirds display team is confirmed for the show. Be sure to come and see us afterwards so you can enjoy our aircraft at your own pace.

I hope you enjoy this issue of Skywriting; it is a lot of work for our staff to put together, but I know it is a labour of love. At the heart of this organization are its people; the staff, the volunteers, its patrons and its members. Without everyone working together on our shared love of aviation history we would not be able to have achieved the stature and success that this museum enjoys globally. Thank you all for your commitment to us and we'll have plenty to showcase in our next issue.

A handwritten signature in blue ink, which appears to be "Scott Marchand".

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Meghan Marum

Director of Titan Missile Museum

Yvonne Morris



A LOOK BACK ON 2015

In late March 2015 the Boeing Company donated a Dreamliner 787-8 to us. This model aircraft was built by the Boeing Aircraft Company at Renton, WA and delivered on December 22, 2009. This is the second prototype of the 787-8 Dreamliner to be produced. We are honored to have been selected by The Boeing Company to be the custodian of such a significant historic “next generation” aircraft and to be able to display it for our US and international guest to enjoy.

In late spring of 2015 we completed our long anticipated Joyce M. Corrigan Women in Flight Gallery. This gallery highlights the aerial achievements of women throughout history. The exhibit examines women’s contributions in many aspects of aviation including, military, commercial, and civil aviation seen through artifacts and photographs.

We celebrated our 5th Annual Night of Fright on October 28, 2015. This family friendly safe Halloween event has grown to be a community staple. With the support of Mars Chocolate North America we were able to provide a fun filled evening for over 1,200 little ghouls and goblins!

In December of 2015 we received our Privateer. This aircraft is currently in restoration where it is receiving a fresh coat of paint and being reassembled. Once complete it will go on display in Hangar 5.

The Titan Missile Museum had two significant facility improvements in 2015. They started the year off installing an HVAC system in the underground silo. This has helped stabilize the temperature underground as well as help with the preservation of the site. In November, after nearly 50 years the control room had new carpet installed.



Pima's Collection of Boeing B-52 Stratofortress

by: James Stemm, Director of Collections and Restoration



The Pima Air & Space Museum is unique in its collection of three examples of the Boeing B-52 Stratofortress. No other museum has been able to gather and display as many examples of the iconic Cold War bomber. Each of the aircraft represents a specific point in the development of the Stratofortress.

The first aircraft is a NB-52A, serial number 52-0003. This is the third of three of the first production model of the B-52. Prior to these aircraft only the XB-52 and YB-52 had been built making this the fifth B-52 of any type built. The B-52A did not enter normal operational service; rather they acted as service test aircraft for the Air Force and Boeing as they developed the procedures and techniques for using the later operational service aircraft. While these aircraft did not enter into operational service, their contribution to the later deployment of the B-52 should not be underestimated. After relatively brief active Air Force careers the B-52As went on to perform other experimental and development duties. The first one built was modified and served as the XB-52G and tested numerous modifications planned for B-52Gs, including the short tail. The third "A" model was converted in 1957 to serve as the first carrier aircraft for the X-15 rocket plane. Modifications included the addition of a pylon on the right wing between the fuselage and the first engine pod, and the removal of part of the wing to allow clearance for the X-15's tail. In this form, the plane was re-designated as NB-52A. The aircraft carried the X-15 on approximately half of

its flights. It was finally retired in 1969 and remained in storage until 1981 when it was loaned to the Pima Air & Space Museum. Prior to this time the prototypes and both of the other A models had been scrapped, making this the oldest surviving B-52 of any type.

The second aircraft is a B-52D, serial number 55-0067. This is the nineteenth B-52D built and was delivered to the Air Force in 1957. The D model of the B-52 became, along with the Huey and the F-4 Phantom, the symbol of American air power during the Vietnam War. Beginning in 1965, modification of B-52Ds began to increase their conventional bomb load. The "Big Belly" modifications resulted in the ability to carry 108 conventional bombs both internally and externally. This means that each B-52 could carry 54,000 pounds of bombs. Pima's B-52D was converted in 1966 and deployed to Guam and Thailand several times beginning in 1967 and continuing for the remainder of American involvement in the Vietnam War.

The third aircraft is a B-52G, serial number 58-0183. This is the seventy-ninth B-52G built. It was delivered to the Air Force in 1959. Throughout the 1960s, 70s, and 80s, the G models served as an integral part of the United States' nuclear delivery force. By the late 1980s the G and H model B-52s were being supplemented by B-1B Lancer bombers in the strategic bombing mission and many of the G models were selected for conversion to conventional bombing and non-nuclear

Stratofortresses



ing B-52G being towed to restoration in June of 2014!



missile delivery. In January 1991 the B-52 entered its second war when the United States went to war with Iraq over that nation's invasion and occupation of Kuwait. Pima's B-52G, nicknamed "Valkyrie" and six other G models from the 596th Bomb Squadron participated in what was at that time the longest range combat mission in history. The aircraft flew from their

base at Barksdale, AFB, Louisiana to a point over northern Saudi Arabia from which they launched cruise missiles as part of the first wave of attacks on Iraq. In all, the aircraft on the "Secret Squirrel" mission spent at least 34 hours in the air. This aircraft was retired in July 1991.

The Restoration Process... Multiplied by 3

Restoring one B-52 for display is a daunting and expensive task, doing three of them one after the other is even more challenging. This is just the task we set out on at the Pima Air & Space Museum in the summer of 2014. To add more excitement to this endeavor we were also faced with the fact that the planes will not fit into the Restoration Hangar. To begin we first had to move the huge aircraft back to the Restoration Area. Just accomplishing this required several days of moving other aircraft out of the way to allow the nearly 190 foot wide B-52s to pass. Because of a lack of parking space in the Restoration Area of the museum it was decided to take two of the aircraft back while leaving the NB-52A on display until the others were finished. The B-52D was the first to be parked on the restoration wash pad to begin several months of work. Each of the planes will get similar attention. A complete cleaning is followed by the removal of the old failing paint and the airframe is surveyed for corrosion or other damage that will need to be repaired. Once

the repairs are completed the process of repainting the aircraft begins. Each B-52 requires between seventy-five and one hundred gallons of primer and then one hundred gallons of paint before it is ready to return to display. Each of these gallons costs approximately \$430.00. This means that it costs the museum at least \$86,000 to repaint each of the B-52s (this is just paint - not factoring in any man hours). The months long process will result in aircraft that gleam like new and will continue to represent their sister Stratofortresses for many years to come.



Boeing B-52D awaiting to go back on display!

Recent Acquisitions

The museum has been very fortunate to acquire some very impressive aircraft this past year. We are grateful to our loan partners and donors that continue to support us and help our collection grow.

Once received many of these aircraft went straight to restoration to be restored for display, with a large portion of them planned for display in Hangar 5 once complete.



PBX Catalina fuselage arriving from Texas.



Privateer repainted and partially reassembled.

Above: In December of 2015 we acquired a PBX Catalina. We were able to purchase this aircraft from the Lonestar Flight Museum in Galveston, TX. Once reassembled and restored this aircraft will go on display in Hangar 5.

Left: Also in December of 2015 we acquired a PB4Y-2 Privateer. Like the PBX this aircraft also came from the Lonestar Flight Museum. It too will go on display in Hangar 5 once reassembled and restored.



Top Left: In March of 2015 we were very fortunate to receive a Boeing 787-8 Dreamliner from The Boeing Company. This aircraft is on display on the museum grounds. It is one of 3 displayed throughout the world.

Top Right: Our new Beechcraft UC-12B Huron.

Middle: Our new Westland Lynx.

Bottom Right: Our new Aeritalia C-27A Spartan.

Bottom Left: Our new Lockheed C-60 Lodestar fuselage.



Restoration



Above Left: The museum's Bristol Bolingbroke. This aircraft will go on display in Hangar 5.

Above Right: The North American B-25 Mitchell. This aircraft is on loan to us from the National Museum of the United States Air Force. This aircraft will also be on display in Hangar 5.

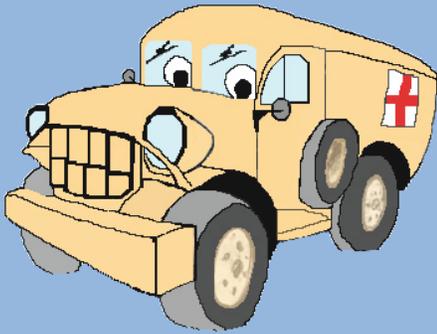
The below aircraft will all go on display in Hangar 5.

Right: Our North American AT-6B Texan.

Bottom Left: Our North American BT-14A Yale.

Bottom Right: Our Vultee BT-13 Valiant.





• **Wings & Wheels - A Military Vehicle Show**

• Saturday, March 19 --- 10am - 4pm

• Join us as the museum once again hosts this historic military vehicle show. Come and see an impressive display of military jeeps, trucks and motorcycles under the wings of many iconic airplanes. This show is put on in partnership with the Southern Arizona Military Vehicle Collectors Club. Regular daily admission prices apply. Members FREE!



• **5th Annual Great Paper Airplane Fly-Off**

• Saturday, April 16 --- 9am

• Join us for the 5th Annual Great Paper Airplane Fly-Off. The museum's exclusive paper airplane competition is open for kids ages 6 to 14.

• This is a fun filled day of competition and prizes. Entrants receive a FREE t-shirt and can bring up to 4 additional guests with them for the day.

• Advanced registration is required for participants (register early, it fills up!). More information and registration is available starting in early February at www.greatpaperairplane.org. Regular daily admission prices apply for non-entrants.

• This event is made possible through the generous support of Mars Chocolates North America.

• **Danger Zone Car Show**

• Saturday, May 14 --- 9am

• It's a TOP GUN themed car show full of surprises! With over 350 cars participating in 2014 this year's event is expected to be bigger and better.

• This is a perfect day to explore the museum grounds while viewing hundreds of cars beneath the aircraft wings.

• To register a vehicle, please visit www.eventbrite.com and search for Danger Zone Car Show.

• Regular daily admission prices apply. Members FREE!





PIMA AIR & SPACE MUSEUM

Second Saturday Speaker Series

The Second Saturday Speaker Series takes place on the second Saturday of each month, except as otherwise noted, at 1:30 p.m. in the Main Hangar at the Pima Air & Space Museum. Enjoy presentations about current aviation technology, future space missions, historical figures in aviation, and what is happening here in Tucson for space exploration and historical preservation. These presentations are very informative and interesting! INCLUDED WITH ADMISSION AND FREE TO MEMBERS!



February 18, 2016

1:30 p.m.

Launch Date Is Coming: The Osiris-Rex Sample Return Mission

Principal Investigator for Osiris-Rex, Dante Lauretta will talk about the goals for the mission, the time line and what they hope to learn from the asteroid Benu.



April 9, 2016

1:30 p.m.

Commercial Space Flight

L5 Space Society chairman Al Anzaldua will present the various commercial space flight endeavors that are currently being worked on and how Arizona is a great place for commercial space flight.

March 12, 2016

1:30 p.m.

Jaqueline Cochran

Tucson 99s member Ann Mitchell will present the interesting history of aviation pioneer Jaqueline Cochran.



May 14, 2016

1:30 p.m.

Preserving and Presenting the History of the Pacific Theater of WWII

PASM, Director of Collections and Restoration James Stemm will talk about our new aircraft and exhibits that will tell the story of aviation in the Pacific Theater of World War II.



Volunteer Presentation Series

The Volunteer Presentation Series takes place on the third Saturday of each month, except as otherwise noted, at 10:00 a.m. in the Stitt Education Center at the Pima Air & Space Museum. These are truly incredible and amazing lectures presented by retired military vets and civilians who have either worked on or flew many of the PASM aircraft. Their research is extensive and their presentations are very informative and interesting! YOU WON'T WANT TO MISS THESE EDUCATIONAL LECTURES! INCLUDED WITH ADMISSION AND FREE TO MEMBERS!

February 20, 2016

10 a.m.

The P-38 Lightning, by Mark Swartz



April 16, 2016

10 a.m.

Huey from A to Z, by Larry Clark



March 16, 2016

10 a.m.

Air Racing and How It Helped Aviation Durin The Golden Years (Between WWI and WWII) , by Randy Hoffman



May 21, 2016

10 a.m.

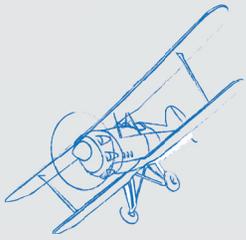
F-14 Tomcat, by Fred Black





STEM Programs for Kids

Science, Technology, Engineering and Math

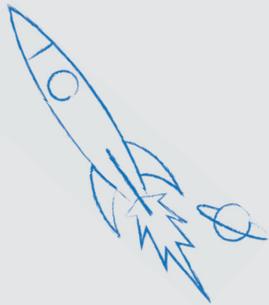


Model Airplane Make 'N Take

1:00 p.m. - 1st Saturday of the month

Enjoy model building with the Sonoran Desert Model Builders. For children 5 years old and older and their adult companions, this program is designed to introduce students to the hobby of model building and the math and historical research used to build accurate scale models. Each student will build a snap-together airplane they can take home with them and see models made by expert model builders.

February 6, March 5, April 2, May 7 and June 4

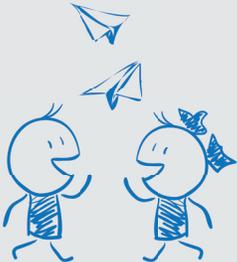


Imagine Rockets

1:00 p.m. - 2nd Saturday of the month

Learn about the science behind rocketry. For children 8 years old and older and their adult companions, this program is designed to introduce students to the principles of rocket science through demonstrations and hands-on rocket-building and testing activities. During this program participants get to build and test experiments that demonstrate basic rocketry principles. Our rocket expert will lead you through Newton's laws of physics and show you how physics and chemistry are used in rocket science. Everyone gets to take home the experiments they build as well as test the Mighty Missile Launcher and the Mighty Seltzer Rocket, kits that are available for purchase in our Museum Store.

February 13, March 12, April 9, May 14 and June 11

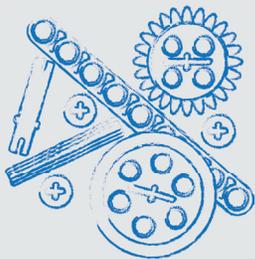


How Things Fly

1:00 p.m. - 3rd Saturday of the month

Experience the fun and excitement of flight. For children 8 years old and older and their adult companions, in this program students will build and test aviation experiments that demonstrate the power of air pressure, aircraft stability, and lift. All students get to take home the experiments they build.

February 20, March 19, May 21 and June 18



LEGO® Robotics Experience

1:00 p.m. - 4th Saturday of the month

For children 8 years old and older and their adult companions, this program is designed to introduce children to the basics of robotics and programming. During the program participants will program their robot to follow a path, collect a sample and return to base. There is limited space available in each class. **Reservations are required.** Contact Mina Stafford at education@pimaair.org or 520 618-4819 to make reservations.

February 27, March 26, April 23, and May 28



Young Flyers Fun

ENCORE - 10:00 a.m. - 4th Wednesday of the month

3:00 p.m. - 4th Saturday of the month

For children ages 4-7 years old and their adult companions, this program is designed to introduce children to the world of aviation and aerospace through gallery activities and tours, story books, demonstrations and hands-on craft projects that can be taken home. A different topic will be featured each month. Contact Mina Stafford at education@pimaair.org or 520 618-4819 to make reservations.

ENCORE = February 24, March 23, April 27, May 25 and June 22

February 27, March 26, April 23, and May 28



Set Jetting at the Titan Missile Museum - the Top Secret Tour

by: Yvonne C. Morris, Director, Titan Missile Museum

Picture this—it’s a cool and starry night in April of 2063 at the Titan Missile Museum. The air shimmers briefly and Jean Luc Picard, the dashing Captain of the starship Enterprise, and a small landing party from the ship materialize. After looking around briefly they spot the hatch covering the Access Portal leading to the underground missile site and they quickly make their way underground to the launch control center. They have just traveled back in time from the 24th century to prevent the Borg from destroying the Phoenix, humankind’s first warp (faster-than-light) vehicle, and changing Earth history. After destroying the Borg ship the team beams to the launch site to assess the warp vehicle’s condition. In the launch control center everyone is dead, victims of the Borg attack. Picard and Data quickly go to the missile silo to check on the condition of the Phoenix. Fortunately for humankind, the Phoenix is fine and Zefram Cochrane, its inventor and pilot, still alive. The crew of the Enterprise has once again saved the day.

Ok, so it was really April of 1996 and the Titan Missile Museum was standing in for an abandoned missile site in Bozeman, Montana for the movie *Star Trek: First Contact*, with the museum’s Titan II playing the starring role of the Phoenix warp vehicle. Paramount Pictures filmed here for several weeks, transforming the museum into a movie set that served as the backdrop for one of the most successful movies of the Star Trek franchise.

When Picard and Data enter the launch duct to inspect the Phoenix warp vehicle an iconic scene unfolds for Star Trek fans, friends of the museum and students of the Cold War. Data comments that “it is a historical irony that Dr. Cochrane would choose an instrument of mass destruction to inaugurate an era of peace.” There, in one short bit of filmography, the historical oxymoron that is the Titan II missile is revealed as well. For while the Titan II was indeed

a weapon of mass destruction, it was also an implement of peace—designed to deter war with the former Soviet Union and to keep the peace by its very existence. Whether WWII was averted because the Titan II achieved its mission or because we were just plain lucky is the subject of much debate. The truth probably lies somewhere between the two.

Back in the 2063 launch duct, Picard is visibly moved by the sight of the Phoenix, so much so that he has to touch it, something he dreamed of doing as a boy—something many Star Trek fans dream of doing today. You can see where it all happened on our “Set Jetting Top Secret Tour!” We’ll give you a white glove (which is yours to keep) and you and a friend can recreate the iconic movie scene, including touching the missile just like Captain Picard. We don’t offer this tour every day, so for more information, email the museum’s Director, Yvonne Morris, at ymorris@titanmissilemuseum.org. You can bring movie history to life at the Titan Missile Museum!

Top: In this screen shot from *Star Trek: First Contact* Picard is finally able to touch the Phoenix warp vehicle, something he dreamed of doing as a boy.

Right: Portions of *Star Trek: First Contact*, one of the franchise’s most successful movies, were filmed at the Titan Missile Museum in 1996.





Tours & Programs



• Top to Bottom Tours

• See every nook and cranny of the missile site, from the silo closure door mechanisms on level 1 to the propellant pump rooms on level 8 and everything in between. This is THE tour for Titan enthusiasts. This tour is limited to 6 people so reservations are required and certain limitations apply. This tour is not handicapped accessible. For more information visit our website at www.titanmissilemuseum.org. For reservations, call 520.625.7736 or email info@titanmissilemuseum.org.

February 2, 13, 15, 19 & 26
 March 1, 11, 18, 21 & 26
 April 5, 15, 18, 22 & 30
 May 3, 14, 16 & 20
 June 7, 17, 20 & 25



• Beyond The Blast Door Tours

• This tour is offered the first and third Saturday of every month at 9:30am and is FREE to members. In addition to the “standard” tour stops in the missile complex, see where the missile crews ate and slept and then descend another 100 feet underground to enter the launch duct and stand directly underneath the missile! Reservations are required and certain limitations apply. This tour is not handicapped accessible. For reservations, call 520.625.7736 or email info@titanmissilemuseum.org

February 6 & 20
 March 5 & 19
 April 2 & 16
 May 7 & 21
 June 4 & 18



• School & Youth Group Tours

• The Titan Missile Museum offers FREE tours to schools and civic/ service-oriented youth groups serving students and children in the 5th-12th grades. The tours are accompanied by a classroom session with the museum’s Education Docents. Classroom demonstrations bring the principles of rocket science to life, entertaining students while they learn. See videos of some of the demonstrations on Titan’s Facebook page. Certain limitations apply. Reservations are required and must be made at least 30 days in advance. Call 520.625.7736 or email info@titanmissilemuseum.org for more information or to make a reservation.



PIMA AIR & SPACE MUSEUM
TITAN MISSILE MUSEUM



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Tucson, AZ 85756

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PIMA AIR & SPACE MUSEUM
TITAN MISSILE MUSEUM



2016 Annual Meeting of the Membership

SAVE THE DATE

Tuesday, March 22, 2016
Pima Air & Space Museum
4-5 p.m. Reception — 5-6 p.m. Annual Meeting