

DESERT WINGS

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Rebirth: Oldest flying F-22 Raptor takes to sky again

By Kenji Thuloweit

412th Test Wing Public Affairs

In Greek mythology, a phoenix is an extraordinary bird that is born again, rising from the ashes of its predecessor.

A video aptly titled, "[The Phoenix Rises](#)," played at a ceremony held Aug. 27 in Hangar 1635 to celebrate the rebirth of one of the original F-22 Raptors ever built.

Base leadership joined the 411th Flight Test Squadron and F-22 Combined Test Force, along with Lockheed Martin and Boeing representatives, to welcome back to life Raptor #91-4006, which has been on the ground for almost six years.

The fifth-generation fighter was one of the first F-22 Raptors to have avionics installed for testing and has been at the 411th FLTS since it arrived in May 2001.

However, in November 2012, Raptor 4006 needed costly upgrades and the decision was made to put it into storage, possibly never to fly again due to the budget sequestration at the time, according to Lt. Col. Lee Bryant, 411th FLTS commander and F-22 CTF director.

"This was a gainfully employed airplane when she was working," said Steve Rainey, Lockheed Martin F-22 chief test pilot and member of the F-22 CTF. Rainey also emceed the ceremony.



F-22 Raptor #4006 makes its second flight July 18 following an extensive refurbishment to get it back in the air. (Courtesy photo by Christopher Higgins/Lockheed Martin)

After eventually getting approval and funding from the Air Force to overhaul the Raptor, a "purple" team of Air Force, Lockheed and Boeing personnel worked for 27 months here at Edwards to restore the jet back to flying status. This included 25,000 man-hours and almost 11,000 individual fixes/parts. The completed refurbishment extends the Raptor's life from 2,000 flight hours to 4,000 FH and gives it newer avionics

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Teichert stresses supporting warfighter, innovation

By Kenji Thuloweit

412th Test Wing Public Affairs

For continued success at "the center of the aerospace testing universe," the Edwards workforce must maintain its focus on what it does for the warfighter and inspire innovation.

That message was delivered at two commander's calls held by Brig. Gen. E. John Teichert Aug. 23 at the base theater. Teichert took command of the 412th Test Wing last month. Two commander's calls were held for maximum attendance and were done in conjunction with the test wing's [second quarter awards ceremony](#).

The general emphasized the importance of the work done at Edwards and vowed they would hear two reoccurring themes during his tenure here.

"If you were at my incoming change of command some five weeks ago or so, you would have heard me use two phrases again and again," Teichert said. "The first one was 'we are the center of the aerospace testing universe.' We are the center of the aerospace testing universe because of what you are doing for the warfighter today; you are breaking barriers by testing tomorrow's technology today."

Focusing on the test wing's duty to America's warfighter is Teichert's second reoccurring theme.

"You would have also heard me say, 'for the warfighter.' Because it is our responsibility, not just to be here in this location to test for test's sake, but it is our responsibility to make sure



Brig. Gen. E. John Teichert, 412th Test Wing commander, addresses a full base theater Aug. 23 at his first commander's call. Teichert took command of the 412th Test Wing last month. (U.S. Air Force photo by Matt Williams)

we are delivering to current and future warfighters the absolute best capability that we can possibly muster."

The new wing commander stressed that innovation is key to remain the world's premiere flight test organization.

"We are the world's best at innovation because of what we do for the warfighter," said Teichert. If we are going to remain the place that is known worldwide as the center of the aerospace testing universe, then we need to remember our responsibility to unleash your talent and to make sure we add to America's arsenal the best we can as we strive together for the warfighter."

Attendees get info, prizes for Women's Equality Day



Tech. Sgt. Elizabeth Gould, 412th Logistics Readiness Squadron (left), verifies Staff Sgt. Ciarra Malto's Bingo win during Edwards AFB's Women's Equality Day Social held Aug. 24 at the Airman and Family Readiness Center. Gould helped organize this year's observance. (U.S. Air Force photo by Kenji Thuloweit)

By Kenji Thuloweit
412th Test Wing Public Affairs

Women's Equality Day was celebrated across the country last Sunday with the Edwards community getting a head start to the commemorative weekend.

The 412th Test Wing and NASA Arm-

strong Flight Research Center hosted an informative social event in observance of Women's Equality Day, Aug. 24 at the Airman and Family Readiness Center. Guest volunteers gave presentations on topics such as the history of women's suffrage and notable women in U.S. history.

In between presentations, attendees played Bingo to win prizes.

According to the National Women's History Project, Women's Equality Day commemorates the passage of the 19th Amendment to the U.S. Constitution, which granted the right to vote to women. The amendment was first introduced in 1878. In 1971, the U.S. Congress designated August 26 as Women's Equality Day.



(U.S. Air Force photo by Kenji Thuloweit)

Get Ready: September is National Preparedness Month

By Daven Solis
812th Civil Engineer Squadron Emergency Management Flight

National Preparedness month occurs every September and was created to educate communities on different types of disasters. It is important for everyone to know what to do before, during and after a disaster. At Edwards Air Force Base, we are under constant threat from several hazards and being prepared can save you and your family stress, time, money and even their lives. Do not procrastinate your disaster plans. Get a kit! Make a plan! Be prepared!

This month the Emergency Management Flight will be at various locations providing vital information on how you can and your family can be prepared for any type of disaster.

Things you can do to prepare:

- Create an emergency kit.
- Have a family emergency plan.
- Practice your family emergency plan.
- Include an emergency kit in your vehicle for when disaster strike away from home.
- Stay informed by having a NOAA weather radio.
- Develop and utilize a family communication plan.
- Keep your important documents together.

Places you may see your EAFB Emergency Management Flight include the Exchange at these times:

- September 4 and 6 from 10 a.m. - 2p.m.



(U.S. Air Force graphic)

- September 11-13 from 10 a.m. - 2 p.m.
- September 19-20 from 10 a.m. - 2 p.m.
- September 25-27 from 10 a.m. - 2 p.m.

Come meet your Emergency Management Flight, Eddie Be Ready Bee and check out the mobile command center. There will be a game, prizes, pamphlets and handouts for those who are interested.

As always, visit <https://www.beready.af.mil/> for tips on disaster preparedness.

412th Force Support Squadron upcoming events

Force Support Squadron 275-3826

Customer Appreciation Month is Here. SMILE is a customer appreciation program with hundreds of opportunities to be rewarded. FSS is giving away over \$4,000 in FSS prizes in September with six different ways for you to win.

1) Make sure to fill out our Customer Service Survey at https://usafmil.azurewebsites.net/Forms/SV_3ELLKycF8Fnk8Z for your chance to win a \$100 FSS gift card.

2) Look for hidden smile cards. Starting today there will be SMILES hidden around FSS facilities. Find one, bring it to the front desk at the facility and we will give you a FSS prize.

3) Have your smile noticed by our prize patrol. The Smile team will be roaming Edwards looking for people showing their smiles. You could win an FSS gift card valued up to \$50 just by being in the right place at the right time.

4) Post pics of you, your friends and family having fun in FSS facilities on our [Facebook page](#) and you could win a \$25 FSS gift card. Tag @MyAirForceLife and use our hashtags #FSSSmiles and #ServicesSmiles. One winner will be announced weekly Fridays in September.

5) Squadron competitions. Bring out your squadron to our golf driving range competition Sept. 10 and the Bowl a Strike Competition on Sept. 30 for your squadron's chance to win a \$300 FSS gift card.

6) Smile Days: You could win up to a \$100 FSS Gift Card just by coming by one or any of the facilities listed on the schedule. Customer counts determine who is a winner. Four FSS prizes will be awarded daily during the times specified at each activity.

Please note: Customers may only be counted once per day. Must be 18 and older to participate. Check out complete details at the link below and get ready to show us your SMILE!

<https://edwardsfss.com/wordpress/smile>

Base Theater Showtimes 275-2687

All Movies are Free — For showtime schedules, visit www.edwardsfss.com or click [here](#).

Doors open one hour before showtime. No outside food or drinks allowed but concessions are available for purchase.

Club Muroc 275-CLUB

Kids Eat Free on Saturdays! Purchase one adult meal and receive one free kids meal valid for children under 12. Dine-in only.

Monday Pizza Night — Every Monday night from 5-8 p.m. Enjoy a 16" pizza made with fresh dough for dine-in, carryout or delivery. Make sure to try our delicious chicken buffalo pizza! For more options and to place your order, call 275-CLUB.

Wednesday Breakfast Special — Every Wednesday, 6:30 a.m.-10 a.m. Start your day off with scrambled eggs, bacon, toast and juice. Breakfast is served every weekday from 6:30 - 10 a.m. and all day Saturday and Sunday from 10 a.m.-8 p.m.

Delivery Service — Did you know that we deliver to base housing? Call us Monday-Friday from 5-8 p.m. to place your order.

High Desert Lanes Bowling Center 275-BOWL

Kids Bowl Free — Registered kids get two free games a day this summer. Include four guests with a family pass for a discounted price. This promotion is available until August 3. The Kids Bowl Free membership is free for each child 15 years and under. Must sign-up via www.kids-bowlfree.com and fill in all fields to obtain KBF® Coupons. "Family Pass" allows up to four additional family members over the age of 15 to receive coupons for two free games of bowling per day and may only be used while bowling with the KBF® member. Shoe rental not included.

Green Pin Special is every Monday, 10:30 a.m.-7 p.m. Get a strike when you have a green head pin and get that game free. Shoe rental not included. Cannot be combined with any other offers/specials.

Family Package Fridays is from 2-6 p.m. Price includes two hours of unlimited bowling, shoe rental, large one-topping pizza and a pitcher of soda.

For more information about 412th FSS offerings, visit www.edwardsfss.com/wordpress

Glow in the Dark Bowling is Friday and Saturday, 6 p.m.-midnight. Shoe rental included with price. Bowl as many games as you want. Don't miss out on all the fun at an affordable price and a fun atmosphere for the whole family.

Rosburg Fitness Center 275-GYM1

Chair Massages — Take a break from work and enjoy a relaxing chair massage available 11 a.m.-1 p.m. and 3-5 p.m. Five, 10 and 15 minute prices. No appointment necessary.

Fitness Classes — High intensity classes are Mondays and Wednesdays at 6:30 a.m. on the basketball court. Circuit training is Tuesdays and Thursdays at 3:30 p.m. on the basketball court.



Adopt me!

Max is a 9-month-old brindle lab mix pup. He's sweet, energetic and always ready to go! He enjoys hiking and walks with his favorite people and chewing on his favorite toys. Max does fantastic with kids and loves when they like to play fetch! Could Max be the perfect pup for you? Contact APET today at 258-9525.

Announcements

Outdoor Recreation 275-CAMP

Gun Safety Class at the Rod and Gun Club is Sept. 22 from 9 a.m.-2 p.m. Register by the Wednesday prior. Guns and ammunition are not provided. Must be 18 years or older. Call for prices. **RecOn pricing** is for all USAF active duty, Reservists and their family members. Anyone under the age of 18 must be accompanied by parent or guardian.

Gun Safety Classes are on the fourth Saturday of every month from 9 a.m.-2 p.m. Small fee per person. Open to ages 18 and up with classes being held at the Rod & Gun Club. Familiarization and how-tos of guns and shooting taught by California's fastest shooter, Len Paris. Includes a classroom portion on basic firearms and safety rules, followed by two hours of shooting practice on the range. Ammunition at no time will be allowed in the classroom. Guns will not be provided. Class size is limited so reserve your spot by visiting Outdoor Rec.

Pool Movie Nights are 4-8 p.m. Price includes food, goodie bags, relay races and door prizes. Space is limited so sign up fast.

Now Hiring Lifeguards for the Oasis Aquatic Center. Free training for applicants who pass the initial swim test. Swim test includes a 300 meter swim, two-minute tread with no hands and a timed deep-water brick retrieval. Must be 16 years or older to apply. Contact the Oasis Aquatic Center for more information.

Open/Family Swim at Oasis Aquatic Center is Monday-Friday. Hours are 3-5:30 p.m. Family pass is valid for four people for three months. Passes are available for purchase at Outdoor Recreation and the Oasis Community Center now. They must be shown to the lifeguards on duty for verification before entering the pool.

Free Lap Swim at the Oasis Aquatic Center hours are Monday, Wednesday and Friday from 6-8 a.m. And Monday-Friday, 10 a.m.-6 p.m. No children allowed unless they are able to swim laps unsupported.

Need Ski or Snowboard Gear? Outdoor Rec has all of the equipment you need. Check out the Equipment Rental pricelist on ODR's page at www.edwardsfss.com or stop by ODR today!

Numerous openings in RV Storage — Come over and park your equipment for our low prices and have access to them anytime you need.

Muroc Lake Golf Course 275-PUTT

Single Airman Golf Special — Single Airmen can enjoy 18 holes, cart, burger, fries and drink for a small price. Rental sets are provided for no charge if needed. Limited to the first 100 participants. Single Airmen are Air Force active duty or Air Reserve Component personnel permanently assigned to an Air Force installation or Air Force-led joint base without a spouse and a guest.

Information, Tickets and Travel 275-TRIP

L.A. Rams Tickets Available at Information, Tickets and Travel. Four tickets to each of the below games:

16-Sep Cardinals \$75
23-Sep Chargers \$75

27-Sep Vikings \$75
28-Oct Packers \$125
11-Nov Seahawks \$95
16-Dec Eagles \$125
30-Dec 49ers \$125

ITT Pricelist & Other Events — To see the current ITT price list for events, parks, hotels and discount information, visit www.edwardsfss.com/wordpress/travel/itt.

Armed Forces Vacation Club — Let us find your dream vacation rental. Forget cramped quarters, get access to space-available resort rentals worldwide for one low weekly price. Call 275-TRIP(8747). Come by anytime to pick up a prices list for your favorite theme parks too.

Teen Center 275-8336

Instructional Classes — Gymnastics (ages 3-17 years) are Tuesdays, Wednesdays and

Thursdays. Email ssgymnastic1@yahoo.com for more information.

Youth Programs 275-5437

Boys & Girls Club Power Hour/Project Learn is Monday-Thursday, 2:30 p.m. – 4 p.m. Making minutes count helps club members (ages 6-12) become successful in school by providing homework help/tutoring while encouraging members to become self-directed learners. See Ms. Breanne for details and to sign up.

Creative Kids - Art Daily at 3 p.m. in the art room area. **Fitness Daily** is at 3:30 p.m. in the Youth Center Gym. Join us for fitness. See what played like dodge ball, skating, volleyball and much more.

4-H Photography Club — is the first Tuesday of the month from 3:30 p.m.-5 p.m. Learn all about photography skills. See Ms. Kerry for details.



WE WANT TO MAKE YOU Smile

SMILE is a customer appreciation program with hundreds of opportunities to be rewarded!

- **Look for hidden smile cards!** There will be SMILES hidden all around FSS facilities. Find one, bring it to the front desk at the facility and we'll give you a prize!
- **Answer the survey on how to make you smile more!** Survey link will be provided via the Daily Blast, FSS Website, and FSS Facebook. Provide your contact information for your chance to win!
- **Have your smile noticed by our "Prize Patrol"!** The SMILE team will be roaming Edwards looking for people showing their smiles! If they spot you, you could win an FSS gift card valued up to \$50!
- **Post a picture having fun with FSS on our Facebook page!** Post pics of you, your friends and family having fun in FSS facilities on our Facebook page and you could win a \$25 FSS gift card! One winner will be announced every Friday in September.

Smile DAYS

You could win a \$100 FSS Gift Card just by coming by one or any of the facilities listed on the schedule!

Customer counts determine who is a WINNER!

Four FSS prizes will be awarded daily during the times specified at each activity.

Customers may only be counted once per day. Must be 18 and older to participate.

SEPT 4 • ARTS & CRAFTS
Stop by anytime from 11am-2pm

SEPT 5 • SCHOOL AGE
Child pick up, 4-6pm

SEPT 6 • A&FRC
Newcomer's Orientation, 7:30-11am

SEPT 6 • CLUB MUROC
Football Kick-Off Party, 3-6pm

SEPT 7 • OASIS COMMUNITY CENTER
Harry Potter Family Bingo, 4-6pm

SEPT 10 • SANDBAGGER GRILL
Celebrate National Hot Dog Day with \$1 off hot dogs from 11am-1pm! (while supplies last)

SEPT 11 • CHILD DEVELOPMENT CENTER
Child pick up, 4-6pm

SEPT 13 • FITNESS CENTER
Powerlifting Competition, 2-4pm

SEPT 14 • BASE LIBRARY
Hispanic Heritage Story Time, 10-11am

SEPT 15 • BASE THEATER
Join us for a double feature of "Pirates of the Caribbean: The Curse of the Black Pearl" & "Dead Man's Chest" at 3:30pm; doors open at 2:30pm!

SEPT 18 • HIGH DESERT LANES
Celebrate National Cheeseburger Day with \$1 off cheeseburgers from 11am-1pm! (while supplies last)

SEPT 19 • AUTO HOBBY
Stop by anytime from 11am-2pm

SEPT 20 • TEEN CENTER
Open House from 4-6pm; Stop by for your chance to win \$100 off your Teen Center Membership!

SEPT 21 • AERO CLUB
Stop by anytime from 11am-1pm.

SEPT 24 • YOUTH PROGRAMS
Child pick up, 4-6pm

SEPT 25 • OUTDOOR REC
Open House, 11am-1pm
Stop by and check out our rental items and upcoming trips!

SEPT 28 • GRAND FINALE!
Join us at the Base Family Campout!



PLUS, SQUADRON COMPETITIONS! Bring out your squadron for your chance to win a \$300 FSS Gift Card!

DRIVING RANGE COMPETITION • SEPT 10, 9AM-5PM
Anyone from your squadron can swing by Muroc Lake Golf Course and try to get a golf ball into a target at the driving range. One try per person; squadron with the most accurate drives, WINS!

BOWL A STRIKE • SEPT 20, 9AM-5PM
Anyone from your squadron can stop by High Desert Lanes and take a chance to bowl a strike. One try per person; squadron with the most strikes WINS!

Engineer discusses potential threats during ITEA lunch

By Giancarlo Casem
412th Test Wing Public Affairs

Members of the International Test and Evaluation Association Antelope Valley Chapter held their quarterly luncheon at Club Muroc on Edwards Air Force Base, Aug. 23. The luncheon was a way for testing and evaluation professionals in the community to exchange lessons learned and enhanced techniques to better accomplish the Edwards mission.

The ITEA aims to help professionals in the field to communicate with each other and share best practices across the board in a variety of technical backgrounds. The overall goal of the ITEA is to improve the test and evaluation community to further advance their industry.

"ITEA is an educational non-profit that has been advancing the exchange of technical, programmatic and acquisition information among the test and evaluation community for over 30 years," said Chris Klug, ITEA AV Chapter president.

The keynote speaker was Patrick Lardieri, a technical fellow in cyber technology and operations, and a member of the U.S. Air Force Scientific Advisory Board. Lardieri has worked with the National Cyber Range conducting cyber security evaluations. Lardieri's address focused on the implementation of cyber security practices in the realm of testing



Keynote speaker Patrick Lardieri gives a speech about cyber security in the testing and evaluation field during the International Test and Evaluation Antelope Valley Chapter's quarterly luncheon at Edwards Air Force Base, Aug. 23. (U.S. Air Force photo by Giancarlo Casem)

and evaluation equipment. He said although it may seem like a daunting task, it is one of great importance. Failure to uphold cyber security may lead to the nation's adversaries to access valuable data on Edwards test projects.

Lardieri said he wanted to share with the audience, "what's plausible for a modern adversary to do against a large information system using offensive cyber operations."

Lardieri believes the solution to potential cyber security threats is to have model-based and real-world testing of current cyber security systems. These would allow engineers to correct any security oversights that may have occurred during the development of data-sharing equipment and through daily operations.

"These problems are no different than any other engineering problems," he said. "We never really well characterized (them) and we haven't put enough people and resources into it."

Lardieri hopes that engineers such as himself and those in the cyber security field will energize the relationship between cyber security and testing and evaluation engineers to address potential threats.



Keynote speaker Patrick Lardieri, a technical fellow for cyber technology and operations (left), talks with Dr. David Smith, Edwards Air Force Base Installation Support director, during the International Test and Evaluation Antelope Valley Chapter's quarterly luncheon at Edwards Air Force Base, Aug. 23. (U.S. Air Force photo by Giancarlo Casem)

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systems for testing.

Rainey was the first military F-22 Raptor pilot while in the Air Force and has worked on the Raptor program almost since its beginning. It was only fitting that the rise of the new phoenix was completed July 17 when Rainey took the newly refurbished Raptor to the sky for its "second first flight."

Raptor 4006 is currently the oldest flying F-22. It will now be used as a flight sciences aircraft, which will be an integral part of F-22 fleet modernization.

"It increases our test fleet from three to four giving us another flight sciences jet," said Bryant. "This will help us tackle the expanding F-22 modernization program."

Brig. Gen. E. John Teichert, 412th Test Wing commander, said he has flown 4006 numerous times when was assigned to the 411th FLTS as a project pilot and later as a squadron commander.

"Our warfighter needs her back flying again," said Teichert.

Today, the Air Force has 183 Raptors in its inventory and boasts that the F-22 cannot be matched by any known or projected fighter aircraft.



Lt. Col. Lee Bryant, 411th Flight Test Squadron commander and F-22 Combined Test Force director, addresses base leadership along with Lockheed Martin and Boeing representatives and guests, to welcome back to life Raptor # 91-4006, which has been on the ground for almost six years. (Courtesy photo by Christopher Higgins/Lockheed Martin)



This Week in Edwards History

On Sept. 4, 1957, the Lockheed C-140 Jet Star made its first flight. It was designed and flown in only eight months to test new innovations in crash safety, noise suppression and aerodynamics. The light utility transport featured two axial-flow jet engines mounted on the aft fuselage. (Edwards History Office file photo)



(U.S. Air Force photo by Kenji Thuloweit)

Airman is pitch perfect

Airman 1st Class Ikraam Khondaker, 412th Communications Squadron, throws out a ceremonial first pitch before the Lancaster JetHawks game Aug. 30. Khondaker delivered a strike to JetHawks mascot Kaboom, who was the catcher for the throw. The Edwards Airman was invited to the ballpark as part of an Edwards AFB and fan appreciation night. Khondaker was chosen for being an outstanding Airman and for being the youngest Air Force member assigned to Edwards AFB. He is also a Lancaster, California, native.

The Lancaster JetHawks are a Class A Advanced minor league team for Major League Baseball's Colorado Rockies. The game was the final regular season game for the team.



(U.S. Air Force photo by Giancarlo Casem)

Golf pro swings by

Air Force retiree Henry Ponce receives golfing tips from professional golfer Molly Aronsson during a clinic at Muroc Lake Golf Course on Edwards Air Force Base, Aug. 24.

Aronsson plays on the Symetra Tour, which is the official developmental tour for the Ladies Professional Golf Association. She played college golf at the University of Washington.

Aronsson came out to Edwards for two days as part of Air Force Services Activity's "Recharge for Resiliency" Golf Player Development Program, which is assisted by the LPGA.

For tee times and lesson information, call 275-PUTT.

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