

# DESERT WINGS

Breaking barriers since 1947

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Celebrating 70 years of supersonic flight

Sept. 15, 2017

## Defense, universities test systems for GPS denial



The 746th Test Squadron from Holloman Air Force Base, New Mexico, provided an array of GPS jamming equipment and support for DT NAVFEST at Edwards Air Force Base. The jammers provided a degraded GPS environment for testing multiple aerial platforms throughout the week. Testing was done from 1 to 6 a.m. each day to minimize impact on the community and civilian air traffic. (U.S. Air Force photo by Cole Johnson)

By Christopher Ball  
412th Test Wing Public Affairs

Navigating the globe was once done using the sun, moon and stars as reference, but modern times bring modern methods, and the majority of the world now relies on GPS for its navigation needs.

But what happens when GPS isn't available?

A collection of Department of Defense units and U.S. universities found out when they gathered at Edwards Air Force

## Colombian military officers learn about flight test

By Kenji Thuloweit  
412th Test Wing Public Affairs

Dozens of Republic of Colombia military officers dropped by Edwards Air Force Base for an up-close look at flight test Sept. 12.

The group visited the U.S. Air Force Test Pilot School, the 419th Flight Test Squadron and NASA's Armstrong Flight Research Center.

Col. Jason Schott, 412th Test Wing vice commander, briefed the officers on the history of flight test accomplishments at Edwards and on the TPS curriculum. Next, the Colombian officers were given a B-1B Lancer planeside brief by the 419th FLTS before moving on to lunch and NASA Armstrong.

According to Lt. Col. Don Landgrebe, Air Force International Affairs, this particular group was made up of officers equivalent to the rank of major and also visited Navy and Marine Corps bases in San Diego, March Air Reserve Base, California, and Nellis Air Force Base, Nevada, as part of a two-week tour.

The visit to Edwards is a part of a larger effort where six different groups totaling more than 200 Colombian officers visit various U.S. military bases across the country this month.

Base to evaluate various aerial platforms in a degraded GPS environment recently.

The week-long test event called DT NAVFEST – short for Developmental Test Navigation Festival – was the first large-scale program of its kind, according to James Cook, KC-46A project manager with the 418th Flight Test Squadron.

“DT NAVFEST was established to provide a locally more realistic GPS jamming environment in which aircraft platforms and unmanned aerial vehicles could evaluate their performance under a degraded GPS signal,” Cook said.

“Other locations around the U.S. provide such environments, but having it locally allowed for direct program input and cost savings to customers by not having to deal with the logistics costs of deploying to those locations.”

Cole Johnson, technical lead for NAVFEST, explained how they create a degraded GPS environment.

“GPS signals are super faint,” he said. “Imagine a 30-watt lightbulb 12,000 miles in space. So it doesn't take much interference for your smartphone's GPS to lose lock on such a low power signal. Interference could occur from walking in a dense forest, through a canyon, inside a building, driving among skyscrapers, or from GPS jammers. The end effects of GPS jammers aren't much different than the other causes of interference, they all make it harder for your GPS receiver to pick out faint GPS signals from the air, except jammers do it by adding noise to the environment.”

See GPS, page 3



Members of the Republic of Colombia's military pose for a photo in front of a B-1B Lancer as part of their visit to Edwards Sept. 12. (U.S. Air Force photo by Christopher Okula)

“These type of visits help strengthen our partnership with our friends, which is one of the secretary of the Air Force's priorities,” said Landgrebe.

Check out more photos from the Colombian visit by going to [www.edwards.af.mil](http://www.edwards.af.mil).

# Suicide Prevention Month: stopping suicide is everyone's battle

By Peter Holstein

*Air Force Surgeon General Public Affairs*

September is Suicide Prevention Month, a time for Americans to build awareness and help understand suicide in our culture. More than 40,000 Americans lose their life due to suicide each year and research shows that rates in the military and the general population are very close. The loss of any one person to suicide is a tragedy, and that is why the Air Force is committed to the goal of zero suicides.

Making progress towards this goal requires buy in from everyone in the Air Force, from its most senior leaders to junior Airmen. Everyone has a role to play in prevention. The most basic, and often most effective, way to prevent suicide is to make sure that our family members, friends, coworkers and anyone else in our life feel connected and have a sense of belonging in the world.

"To combat something as complicated as suicide, we need leaders at every level involved," said Lt. Col. Alicia Matteson, the Air Force suicide prevention program manager. "We need the front line supervisors, all the way up to squadron, group and wing commanders involved and being connected to their Airmen."

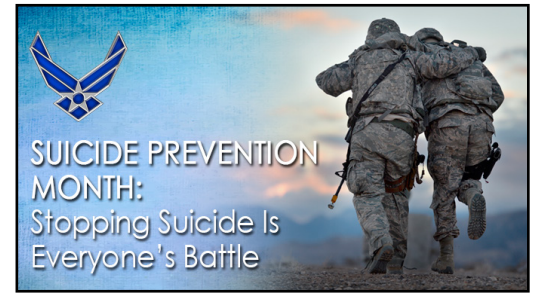
Risks for suicide include people with substance abuse problems, those experiencing loss or guilt, feelings of isolation, and those undergoing stress, both profes-

sionally or in their personal life. This is why it is important for commanders at every level to know the Airmen they supervise, and connect to them enough to know if they have experienced an event in their life that might increase their risk for suicide.

"If suddenly someone comes in and they're looking exhausted, or they exhibit signs of depression or mood swings, then ask," said Dr. Jeffrey Greenberg with the Air Force Suicide Prevention Program. "It may be nothing, and that's fine, but it is still important to demonstrate to someone that you are concerned about what's going on with them. We want to increase that, the connection between Airmen."

Building connections helps sustain emotional strength, and creates a sense of belonging that fortifies against suicidal thoughts. This sense of belonging, whether it is to a unit, a family, a friend group, or something else entirely, helps sustain people when times get tough.

"You can't control the world to stop bad things from happening. Emotional stresses are part of the reality of life," said Greenberg. "When bad things happen, it causes a strong emotional response – anger, fear, anxiety, sadness or anything. That's normal. We need to help our Airmen develop the tools to manage those feelings."



(U.S. Air Force graphic)

This commitment to connection is backed by the Air Force's adoption of the ACE method, which stands for "Ask, Care, Escort." These three steps can guide Airmen when confronted with someone contemplating suicide. The Air Force Suicide Prevention website has more information on ACE and other resources to help prevent and respond to suicide.

If you, or someone you know, needs immediate help, call the Military Crisis Line and speak to a counselor by dialing 800-273-TALK and pressing 1.

Every life lost to a suicide is tragic, but together we can make a real difference. Building bonds with the people around us, even by simple gestures and friendly comments are important, and can sustain people in the face of adversity.

"Every Airmen's job is to look out for each other," said Matteson. "That's what it means to be a wingman, and it's the culture change we need to prevent the tragedy of suicide."

## Corvias shows military appreciation with breakfasts

By Melody J. Couch

*412th Civil Engineer Group*

On Sept. 5, Corvias Military Living, the government's partner for privatized family housing, welcomed the Edwards community back from the Labor Day Weekend with their Breakfast On-The-Go event.

Employees, signs and a bright red awning invited passersby to pull up to the Mojave Sky Community Center where they received a colorful bag filled with a juice, muffin, cheese and tangerine.

Shelly Andalia, the assistant community manager for Corvias said, "We greatly appreciate all that our armed forces and their families do for our country; we just wanted to show our gratitude."

The cheerful welcome to the new week was well received. Some recipients posted comments on the Corvias Facebook page (Edwards AFB On-Base Housing) like Christeen Greenwell's comment, "Thank you for the yummy breakfast this morning!"

Corvias Military Living shows appreciation for military with free breakfasts

Stephanie Ogles wrote, "Thanks so much!!! Delicious way to start my morning!"

In two hours Corvias served more than 150 breakfasts to the



Shelly Andalia, Corvias Military Living, assistant community manager, hands out a Breakfast On-the-Go bag to a Team Edwards member in front of the Mojave Sky Community Center Sept. 5. (Courtesy photo by Melody J. Couch)

Edwards community and after the event supplied the 412th Security Forces Squadron with almost 100 more to distribute to their on duty defenders.

## 412th Force Support Squadron upcoming events

### High Desert Lanes Bowling Center 275-BOWL

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

**Glow in the Dark Bowling** are Fridays and Saturdays, 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.

**Wacky Sundays** are 9:30 a.m.-7 p.m. Low cost for unlimited games. Shoe rental price not included.

**Monday Night Red Pin Bowling** go from 3-7 p.m. Get a strike on the head red pin and receive a free game.

**Unlimited Bowling** are on Tuesdays and Sundays from 11 a.m.-7 p.m. Low price for unlimited games.

### Aero Club 275-AERO

**Realize Your Dreams. Start Flying!** — Join the thousands of men and women who made their dream a reality. Open to active duty military, DOD and NAF civilians, family members, Civil Air Patrol members, retired military, Guard and Reserve, and others by installation approval. Earn three months free Aero Club membership with your introductory flight. For more information visit [myairforcelife.com/aeroclubs](http://myairforcelife.com/aeroclubs) or contact your local Aero Club to sign up for your introductory flight.

### Club Muroc 275-CLUB

**Murder Mystery Dinner: "Crime and Punishment"** — Join us at the Club Muroc Speakeasy Sept. 27 in this 1920's murder mystery experience. Jealous jilted lovers, a rival mafioso and even a couple of undercover feds make the scene at this hilarious night of comedy and mayhem. Doors open at 5:30 p.m. and the show starts at 6. The show is free with the option to pay for dinner. Half roasted chicken or tri tip are available with sides. Sign up now at Club Muroc. Call 275-2687 for more information.

**Kid's Eat Free on Saturdays!** Purchase one adult meal and receive one free kid's meal (under 12). Dine-in only.

**Delivery Service** — Did you know that the club delivers to base housing? Call Monday-Friday from 5-8 p.m. to place your order!

### Arts and Crafts Center/Auto Hobby 275-ARTS/AUTO

**Brake Rotor Special** runs until Sept. 30 at Auto Hobby. Turn two rotors for the price of one. Call for more info.

**Parent/Child Watercolor Class** is Sept. 30, 10 a.m.-noon. All supplies included with signup fee. Come create an underwater-themed watercolor art with your child. Sign up by Sept. 27. For children ages 6 and up. Anyone under 16 must be accompanied by a guardian.

**Pet Tag Special** — Come get your pet tags

made on Mondays for a special price during September while you wait. Pet tags come in a variety of shapes, sizes and a large variety of fonts. Some are laserable, including a small design if requested, and some are customizable with different pictures or designs. If you want to choose your own picture, bring pictures on a disk or printed in high definition colors.

**Towing service available** through Auto Hobby Tuesday-Friday, 9 a.m.-5 p.m. Towing is available on-base and off-base. Call Auto Hobby for more information or prices.

**Auto Hobby hours** are Wednesday, 9 a.m.-6 p.m.; Thursday & Friday, 12 p.m.-8 p.m.; Saturday, 9 a.m.-5 p.m.; and Sunday, 12 p.m.-5 p.m.

**Woodshop hours** are Monday and Tuesday, 9 a.m.-5 p.m.; Wednesday, 9 a.m.-6 p.m.; Thursday and Friday, 9 a.m.-8 p.m.; Saturday, 9 a.m.-5 p.m.; and Sunday, 12 p.m.-5 p.m.

**Interested In Taking Classes?** We are currently offering: stained glass, paper-crafting, mosaics and cookie/cake decorating. Instructors are also needed.

**Automotive Detailer Wanted** The Edwards AFB Car Wash is looking for an automotive detailer. Call Auto Hobby for more information.

**Oil Changes and Alignments** are offered at very competitive prices as well as services in mounting and balancing. No tax or waste fees. Come visit Auto Hobby at Bldg. 2440 or call 275-AUTO (2886).

### Rosburg Fitness Center 275-GYM1

**Run with History Half Marathon, 10K & 5K** is Saturday, Oct. 14. Sign up today at <http://www.active.com/edwards-ca/running/distance-running-races/run-with-history-half-marathon-10-and-5k-2017>. May be subject to additional administration or convenience fees.

**Are you a certified personal trainer?** The Rosburg Fitness Center is currently looking for certified personal trainers with at least 100 hours of individual fitness program experience to include fitness assessments, cardiovascular and strength conditioning programs. Certification must be current and include First Aid certification and either BLS/AED or CPR/AED certification. Please contact the gym if interested.

### Education and Training 277-2713

**Leadership Training Opportunities** — Did you know that your Edwards Education and Training Center offers a variety of civilian leadership training programs to help civilian leaders in their day-to-day leadership paths? Examples of the courses that can be offered are: Leadership Gold, 360 Degree Leader and Leadership the Challenge. Please contact your Edwards Education and Training Center if any one of these courses are of interest to you.

**National Test Center** hours are Tuesday-Thursday from 8 a.m. until 2:30 p.m. only. To schedule an exam, or for additional information, please contact the AMU test examiner at 524-4431, or contact Education and Training. As always, the office is open for all your educational needs.

For more information  
about 412th FSS offerings, visit  
[www.edwardsfss.com/wordpress](http://www.edwardsfss.com/wordpress)

### Library 275-BOOK

**New Mango Languages Online** — This new option to learn more than 70 languages is being offered by Air Force Libraries and is available through the AF Portal. To create an account, select "Database and Online Resources" from the "Library & Resources" tab, then select "Educational Resources" where Mango Languages will be listed among other resources. For more information call or stop by the library.

**Storytime** — Toddlers and preschool children are invited every Wednesday and Friday at 10 a.m. to enjoy a wonderful story and create very unique craft projects. Volunteer readers are welcome!



## Adopt me!

Meet Bella. This 6-month-old Jack Russel pup is sweet as can be. She loves people, dogs and cats. Bella is deaf and is learning sign language to help her adjust to her new home. We promise once you meet her you'll agree she is worth the extra training. Oh, forgot to mention, she gives amazing kisses! Call APET at 258-9525 today!

# Announcements

## Outdoor Recreation 275-CAMP

**Fall Pool Hours** — The Oasis Pool is open Monday-Friday, 10 a.m.-6 p.m. The Sonic and Muroc Pools are both closed until next summer. Thank you for a great summer pool season!

**Bungee Jumping** is Sept. 23, 4:30 a.m.-5 p.m. RecOn program discount is available. Open to active duty and dependents only. Would you like to take part in the most adrenaline-filled adventure in Southern California? Join ODR on this R4R trip and become part of a small minority who can say they have bungee jumped off the Bridge to Nowhere. Must have a signed High Risk Activity Form before signing up.

**Surfing Lessons** available Sept. 30 from 6 a.m.-1 p.m. Low price with RecOn program discount. Active duty and dependents only. Join us as we head down to beautiful Santa Monica beach where we will meet up with the instructors of the Aqua Surf School. Aqua Surf has been recognized as the #1 surf school in Southern California. All of your gear will be provided for you so bring your enthusiasm and spend the day with us as Outdoor Recreation takes you on a trip filled with fun, sun, and surf. Must have High Risk Activity Form signed. Sign up today.

**Overnight Camping at Branch Park** — Low fee for a campsite suitable up to four people. Come and get a wilderness experience right here on base. This is a primitive campground with no potable water, telephones, electricity and no RVs.

**Land Sailing Program** — operates by private bookings only. Must be cleared with the flightline one week prior to scheduled event. If you have any questions, call ODR at 275-2267.

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

## Family Child Care 275-4322

**Family Child Care** is seeking dedicated people who love working with children!

If you live on-base and want to care for children in your home or you are a military dependent and live off-base, you may be eligible to be a licensed or affiliated provider! Make a positive difference in the lives of children! Most materials and training are provided free of charge!

**Extended Duty Care** is offered to assist parents who need additional child care beyond their normal arrangements due to mission-related requirements. Children must already be enrolled in the Child Development Center, the School Age Program or the Family Child Care Program to qualify. To enroll in this FREE Extended Duty Program or for more information, please contact the Family Child Care office.

**PCS Care** is a program offered by Air Force Aid Society offering 20 hours of free child care during your PCS in or out of Edwards!

**The Benefits of Being a Family Child Care Provider** - Being able to work out of your home, working while caring for your own children, being in charge of your own business, doing work that you love, setting your own hours and free training! If you are interested in becoming an FCC licensed provider, contact the FCC Office at 275-4322. We need

providers to offer alternate hours to accommodate evening, swing and weekend duty hours. We are looking for providers to offer care for children with special needs including asthma, allergies, and other physical impairments. We are also looking for providers to offer extended duty care.

## Muroc Lake Golf Course 275-PUTT

**The MLGC Championship** is Saturday and Sunday, Sept. 23-24. Shotgun start begins at 8 a.m. Two days, flighted stroke play event with food and prizes. AN SCGA handicap is required. Sign up by Sept. 19 at the MLGC golf shop.

**Customer Satisfaction Survey** — Muroc Lake Golf Course strives to deliver the best possible golfing experience to its customers on every round. We are always eager to hear what our customers have to say and we'd like to invite you to complete our customer survey. Our survey is short and to the point and we encourage you to be open and candid with your feedback. Thank you for your help and we look forward to seeing you soon. Please visit the Muroc Lake golf course to fill out a paper survey or head to the following link to complete the survey online: <https://gsp.ngf.org/cgi/start.asp?SC=Edwards-MurocLake>.

**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. Must be 18 years or older with a valid driver's license.

## Teen Center 275-8336

**Edwards School of Music** begins in October. Sign up today. Open to ages 5-18. Lessons available for piano, guitar, bass guitar, drums, flute, clarinet, saxophone, trumpet and voice. Other instruments available upon request. Lessons available at all levels, beginner to advanced. For prices and class schedule, stop by the Teen Center or Youth Center. The Edwards School of Music is located in building 7211, right next to the Teen Center.

**Keystone Club** meets every Wednesday at 2:15 p.m. at the Teen Center. The Keystone Club is a leadership club that performs community service projects around the base. The club also helps teens to maintain focus in high school and helps potential graduates prepare for college.

**Youth and Teen Centers Memberships** — For about a dollar a day, you could have peace of mind knowing that your son or daughter is in a safe environment - an environment that fosters development and offers constant supervision, tutoring and fun. The Youth and Teen Centers offer social opportunities and structured programming from affiliated agencies such as the Boys and Girls Clubs of America and the 4-H Club.

## Information, Tickets and Travel 275-TRIP

**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](http://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.

## 412th Security Forces Squadron issues speeding citations

The 412th Security Forces Squadron issued 22 speeding citations and processed three driving suspensions from Sept. 4 through Sept. 10.

### Driving privilege suspensions (current)

<b>Citations issued</b>	15 days .....	0
1 to 10 mph.....	30 days .....	2
11 to 15 mph.....	60 days .....	0
16 to 20 mph.....	90 days .....	0
21 to 24 mph.....	180 days (six months) .....	0
25+ mph .....	365 days (one year).....	30
	730 days (two years).....	0
	1,095 days (three years).....	1

Per AFI 31-218 and EAFBI 31-218, a DD Form 1408 Armed Forces traffic tickets (no-fine) are issued to military members. Military members receiving 1408s are subject to Uniform Code of Military Justice action. A U.S. District Court Violation Notice (USDCVN) (a fine) is issued to all civilians, dependents and retirees. If issued a USDCVN, violators may be required to be present at Magistrate Court in Bakersfield, California, receive traffic violation points against their state-issued driver's license and potentially receive suspension of on-base driving privileges.

# Road work project begins

From 412th Civil Engineer Group



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

Effective Sept. 14, workers from the 412th Civil Engineer Squadron will execute road shoulder maintenance and repair in 1-1/2 mile increments, on both inbound and outbound lanes of Rosamond Blvd., from the intersection of Lancaster and Rosamond, and from the edge of Rosamond Dry Lake Bed to the West Gate. Traffic signs will be placed to warn drivers of work in progress. Impacts to traffic flow will be minimal to none during working hours.

These repairs will improve the roadway, but work of this type, adjacent to traffic, is inherently dangerous. Please Slow down and respect the men at work zones. Call 277-3982 for any questions or concerns.

From GPS, page 1

Units that tested assets at Edwards included the Emerging Technologies Combined Test Force, the 411th 416th, 419th and 461st Flight Test Squadrons. Two universities – Stanford University and the University of Illinois – and the U.S. Army's Special Operations Command also participated.

The GPS jammers and support came from the 746th Test Squadron at Holloman Air Force Base, New Mexico.

According to Wei Lee, test safety engineer with the 412th Test Wing, the universities were invited to participate in DT NAVFEST on a trial basis with the hope of expanding to other institutions in the future.

“Live GPS jamming data is extremely difficult for academic labs to obtain due to the complexity of working with the Federal Aviation Administration and regional first responders,” Lee said.

“It is crucial that the Department of Defense support basic research and development that is ongoing in our nation's top academic institutions. Many of the low technology readiness level projects will eventually migrate from academic labs to defense industry and military applications. Allowing the labs to participate on a non-interference basis is a win-win situation.”

To minimize the effect on the local community and air traffic, planning of the GPS jamming was initiated months in advance. According to Johnson, the GPS jammers had a vertical reach of upwards of 30,000 feet, so the first step was contacting the FAA, which provided a list of “green” times when commercial air traffic was at its lowest. This led to the testing being performed between 1 and 6 a.m. on test days.

Johnson said the team performed extensive modeling and simulation to identify how far the GPS interference would reach.

“Not just at 30,000 feet, but ground level as well,” Johnson said.

The models suggested a small part of the Antelope Valley – a couple of small towns around Edwards – could be affected.



**A Boeing 737 MAX takes off after a touch-and-go landing at Edwards AFB. Boeing has been conducting flight tests with its fourth-generation, narrow-body 737 at Edwards recently. Periodically, aviation industry companies are provided the opportunity to conduct flight tests at Edwards given the base's unique test assets such as multiple runways, a controlled airspace, large dry lakebeds and flying weather. (Photo by Boeing/Paul Weatherman)**



Teams from the University of Illinois Champagne Urbana and Stanford University were invited to the first-ever DT NAVFEST at Edwards Air Force Base to test their projects in a GPS degraded environment. (U.S. Air Force photo by Wei Lee)

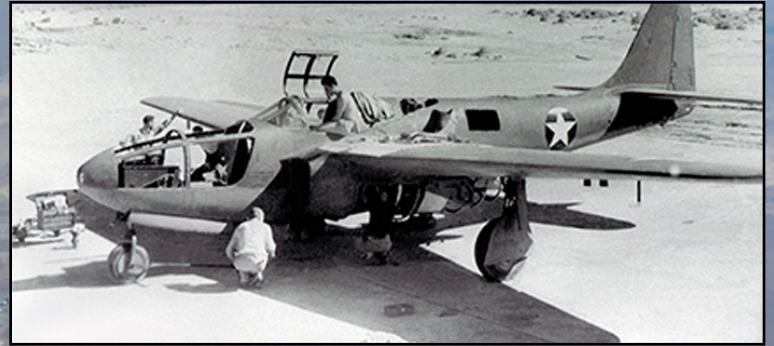
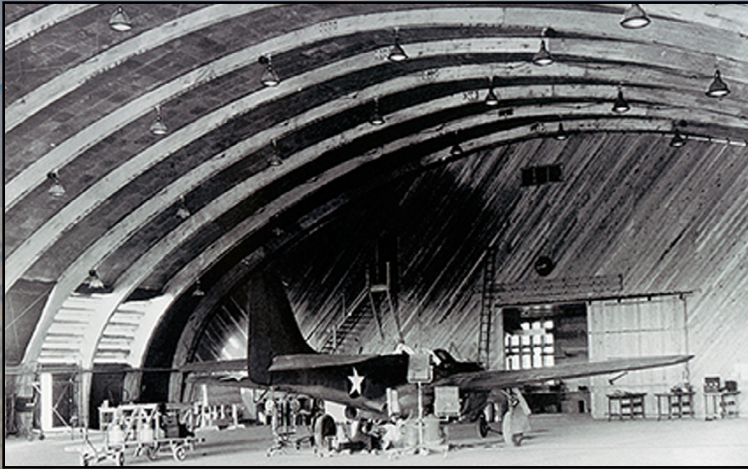
“We wanted to err on the side of caution, so we constructed a huge list of emergency services from the Antelope Valley to contact.”

The team also set up phone lines the FAA and any emergency service could call up during testing and request the jammers to be turned off.

Cook said the event was extremely successful, judging by the feedback from the customers.

“For a first-of-its-kind event, it executed fairly smoothly, thanks to the test team and customers' direct involvement,” he said. “The technical knowledge and support from the 746th TS was awesome. And the support given to this program from 412th Test Wing all the way down to the Airman on the ground providing direct support.”

## This Week in Edwards History



On Sept. 15, 1942, contractor personnel were removed from the Materiel Center Flight Test Site prior to the arrival of the secret XP-59, and a group of 11 Bell Aircraft Corp. employees took over the site. (Edwards History Office file photo)



(U.S. Air Force graphic)

## National Preparedness Month

Everyone should have a plan.

Disasters come in many forms; explosions, hurricanes, tornadoes, and others. Being prepared can reduce fear, anxiety, and losses that accompany these disasters. Individuals, families, and communities should know what to do in the event of a fire and where to seek shelter during a tornado. Knowing what to expect and how to prepare makes any crisis more manageable.

Take these three simple steps to prepare:

**Get a Kit** - Assemble a collection of first aid supplies, food, water, medicines, and important papers that can sustain you and your family until the emergency passes.

**Make a Plan** - You and your family members may not be together when an emergency strikes. Planning ahead will improve your chances of keeping in touch, staying safe, and quickly reuniting.

**Be Prepared** - Anticipate emergencies most likely to affect you and your family. This guide will help you think through the basics of preparing yourself and your family for all hazards.

Visit [Air Force Be Ready](#) for tips on preparing for different types of emergencies.

## 70th Anniversary of Supersonic Flight Air Force Ball



Friday, October 13 at 5PM  
Hangar 1600

Edwards Air Force Base, California



<https://www.facebook.com/70SSFAirForceBall/>

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