

DESERT WINGS

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Team Edwards expands testing of commercial drones

By Christopher Ball
412th Test Wing Public Affairs

The diminutive, but increasingly useful, quadcopter was put to another challenge June 2 when it flew over a small building near the Edwards flightline to give members of 412th Civil Engineer Group an idea of its capabilities as a building inspection tool.

With some assistance by the 412th CEG, the Emerging Technologies Combined Test Force here flew a series of sUAS – small unmanned aerial system – flights over the building to evaluate the feasibility of the sUAS to do roof inspections for CE, and to evaluate the performance of the sUAS quadcopters themselves. The first flight was done by a machine that was previously tested for aircraft inspections, and was followed by a flight test of a recently acquired and mostly untested sUAS.

“While roof inspections are being accomplished using these and other similar systems, our unique issue is the proximity to the flightline environment,” said

Maj. Danny Riley, the director of the ETCTF. “It’s a continuation of the other feasibility studies we have been doing over the last several months to demonstrate the capabilities for USAF use

A second quadcopter, with more advanced instrumentation and a higher-quality camera system was tested next.

As the drones passed over the building, Michael Warren, an engineer technician with the 412th CEG, verbally guided pilot Riley to the features on the roof of the building they would inspect.

“Some advantages this new and innovating technology could bring to CE is it can be used for locations that are hard or unsafe for humans to get access,” Warren said. “Also the video and pictures can be saved as work evidence.”

The flights over the buildings were in addition to similar projects performed earlier in the week.

“The first (project) was to gather updated imagery and video detail of the old Raptor compound for the Test Management Group, to supply to the contractor



Maj. Danny Riley, director of the Emerging Technologies Combined Test Force, launches a small unmanned aerial system as members of the 412th Civil Engineer Group look on. The flight was done to evaluate its systems and to test its feasibility as a tool for the 412th Civil Engineer Group to perform roof inspections. (U.S. Air Force photo by Christopher Ball)

See Quadcopter, page 2

Outgoing 461st CC selected for astronaut training

From 412th Test Wing Public Affairs

Lt. Col. Raja Chari has been selected by NASA to join the 2017 Astronaut Candidate Class. He will report for duty this August.

Chari relinquishes command of the 461st Flight Test Squadron June 9 where he oversaw developmental testing of the F-35 Joint Strike Fighter for the past couple of years. Simultaneously, he served as director of the F-35 Integrated Test Force.

Chari will leave Edwards AFB as a colonel select. He has accumulated more than 2,000 hours of flight time in the F-35, F-15, F-16, and F-18 including F-15E combat missions in Operation Iraqi Freedom and deployments in support of the Korean peninsula.

The Iowa native graduated from the U.S. Air Force Academy in 1999 with bachelor’s degrees in astronautical engineering and engineering science. He continued on to earn a master’s degree in

aeronautics and astronautics from Massachusetts Institute of Technology and graduated from the U.S. Naval Test Pilot School.

Chari is one of 12 new astronauts introduced on Wednesday who will train for missions into Earth’s orbit and into deep space.

The seven men and five women comprise the 22nd class of American spaceflight trainees since 1959. The group is the largest NASA has selected in almost two decades a NASA release said.

The 12 new candidates include six military officers, three scientists, two medical doctors, a lead engineer at SpaceX and a NASA research pilot.

Chari will report for duty in August to begin two years of training as an Astronaut Candidate. Upon completion, he will be assigned technical duties in the Astronaut Office while he awaits a flight assignment, according to NASA.



(NASA graphic)

Dozens of degrees handed out at CCAF graduation

By Kenji Thuloweit and Nancy Koch-Castillo
412th Test Wing Public Affairs

Team Edwards held its annual Community College of the Air Force and higher education graduation ceremony May 23 at Airman and Family Readiness.

There were 40 CCAF associate degrees distributed along with two bachelor's degrees.

The ceremony was presided over by Brig. Gen. Carl Schaefer, 412th Test Wing commander, and Chief Master Sgt. Todd Simmons, 412th TW command chief. More than 200 people were in attendance according to the CCAF Committee.

Among the graduates were the winners of the Pitsenbarger Award, Staff Sgt. Zachary Moitoso, 412th Security Forces Squadron, and Staff Sgt. Matthew Ulrichs, 412th Medical Group. The two won the award for displaying academic achievement and leadership. Ulrich was also recognized by the First Sergeant's Council as the youngest CCAF graduate and is continuing towards an advanced degree.

The Edwards Top 3 group also presented a scholarship to the lowest ranking Airman to complete their CCAF degree, Airman 1st Class Christopher Kocovic, 412th Maintenance



Community College of the Air Force and higher education graduates pose for a photo following their graduation ceremony May 23 at Airman and Family Readiness. (U.S. Air Force photo by Kyle Larson)

Squadron. Additionally, the CCAF Committee awarded Master Sgt. Aiden Morgan, 31st Test and Evaluation Squadron, a scholarship. He was the chosen recipient for being the most seasoned Airman to complete his CCAF degree.

The CCAF was activated in 1972 in order to gain academic recognition for the technical training conducted by Air Force schools. Since 1977, over 2.7 million Airmen have had the opportunity to receive a CCAF degree, according to the Air Force.

View the list of graduates at www.edwards.af.mil.

Road construction delayed

Construction on South Lancaster Blvd. is delayed due to unforeseen conditions on the base course layers below the old pavement.

The purpose of this project is to replace failed pavement on 2.1 miles of South Lancaster Blvd., from the South Gate to the base perimeter. Once the contractor removed the old pavement, they found material that is not suitable for compaction to create a proper base for the new pavement.

While an estimated completion date hasn't been set, the 412th Civil Engineer Group, the U.S. Army Corps of Engineers, and the construction contractor are working as quickly as possible to develop an affordable solution that will provide Edwards a safe and structurally sound road that will last several years. (Courtesy photo)



From Quadcopter, page 1

who is "re-building" it," Riley said. We also acquired imagery required to build high-resolution 2-D and 3-D maps of the area, both for the contractor to potentially use for their planning, but also to demonstrate the capability."

The second project was requested by the Army Corps of Engineers and was very similar to the Raptor compound.

"(The Army Corps of Engineers is) overseeing contractors working to remove debris on South Base, and wants regular (every four to six weeks) imagery to evaluate the progress of the work," Riley said. "We took high overhead shots, as well as the same type of imagery to build 3-D maps, which will hopefully allow volumetric estimates that will help their data collection."

Riley said his CTF will the roof inspection video and the 3-D reconstructions and figure out any lessons learned before flying the third roof CE requested.

"Then we'll make recommendations on what works well and what else may be needed," he said. "We already know that we need a thermal/infrared camera to do the inspections thoroughly."



A small unmanned aerial system performs a roof inspection on Building 1401 near the Edwards flightline as part of a series of tests to determine its feasibility as an inspection tool for the 412th Civil Engineer Group. The tests were also flown to evaluate the performance of the aircraft's systems. (U.S. Air Force photo by Christopher Ball)

412th Force Support Squadron upcoming events

Force Support Squadron 275-3826

Summer Bash 2017 will be held July 4, from 4-10 p.m. at Wings and Roberts Fields. The annual event is open to the entire Edwards AFB community. Celebrate Independence Day with live music, food booths, water fun and carnival rides. The television show "The Voice" Season 11 winner, Sundance Head, will be performing at 8 p.m. before the fireworks show at 9:45 p.m. Plus, enter to win a two-night stay at the Stratosphere in Las Vegas and Knott's Berry Farm Tickets. Sundance Head is brought to Edwards by Air Force Entertainment.

Airman and Family Readiness 277-0723

Ten Steps to a Federal Employment is June 13, 9 a.m.-12 p.m. Ten Steps to Federal Employment teaches the easy-to-follow, step-by-step process for analyzing your qualifications through tracking and following up with your US-AJOBS applications. Registration 24 hours prior to class is required.

Pre-Separation Counseling is Wednesday, June 14 from 8:30 a.m.-11:30 a.m. Pre-separation counseling is a prerequisite for the five-day Transition Assistance Program. Spouses are highly encouraged to attend.

Plan My Move is June 14 from 2-3 p.m. The seminar will assist you in ensuring you select the proper path for a successful PCS, whether it be planning for an OCONUS or CONUS move. The goal is to ensure you receive valuable information necessary to make informed decisions and alleviate stress that might come with a relocation. Spouses are welcome and encouraged to attend.

Newcomer's Orientation is Thursday, June 15 from 7:40 a.m.-2 p.m. Required for all active duty members. Provides vital information regarding base resources and services, policies, procedures, recreation opportunities and more. Spouses are welcome and encouraged to attend.

Hearts Apart is June 15, 5-7 p.m. The monthly event is for families of servicemembers who are deployed, on an extended TDY, or on a remote tour assignment. Join us for dinner and fun activities.

Department of Labor 5-day Transition Assistance Program is Monday-Friday, June 19-23, 7:15 a.m.-4 p.m. The TAP workshop is required for all separating and retiring military members. Spouses are welcome and encouraged to attend. Completion of the pre-separation counseling briefing is a mandatory prerequisite for this workshop.

Women, Infants & Children Program is June 19 from 9:30 a.m.-3 p.m. Open for both walk-ins and appointments, closed for lunch noon-1 p.m. For an appointment or voucher information, call toll free 866-327-3074.

Key Spouse Monthly Training is Wednesday, June 21 from 5:30-7:30 p.m. Monthly training for key spouses on resources and services both on base and in local civilian communities.

Survivors Benefit Plan Workshop is June 27,

10-11 a.m. This workshop is designed to educate and familiarize all retiring Air Force members with the SBP. A face-to-face meeting with an SBP counselor and an election must be accomplished before retirement. Spouses are welcome and encouraged to attend.

Club Muroc 275-CLUB

Kids Klub is June 13, 5-7 p.m. Games, prizes, complimentary kids meal (12 and under). Adults must supervise their children. Club members only.

Bar Trivia is Thursday, June 15, from 6-8 p.m. Prizes for first and second place finishers.

Club Hold 'Em is June 15 at 6 p.m. Complimentary food available.

Membership Appreciation Dinner is June 19 from 5-7 p.m.

Splash Nights Fridays are 5-8 p.m. Swim for free. Grill your own steaks and hot dogs. Music is available. Bring the whole family!

Win a Designer Handbag Bingo! is June 17 at 3 p.m. Pre-registration is required. Call for entrance fees. 9 cards, 9 games, 9 prizes!

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

Kids Crafts For Dad is June 13, 1-3 p.m. Open to all ages. Sign up by June 9 at 2 p.m. The class will be making superhero bookmarks and cozies for dad. All supplies will be provided. Spaces are limited.

String Art Class is June 14 from 5:30 p.m.-7:30 p.m. Class is open to ages 16 and older. Please sign up by June 13 at 2 p.m. Participants will be making "I (Hearts) USA" string art. Participants will get to hammer nails in and wind string to make their design. All supplies will be provided. Spaces are limited.

Patriotic Wreath Making will be held June 29 from 5-7 p.m. Open to ages 14 and up. Sign up by June 28 at 2 p.m. Patriotic rag wreaths will be the project. All supplies will be provided. Spaces are limited so sign up now.

Instructors Needed! If you're creative, we need you. Arts and Crafts is seeking out instructors of all types. Come and share your creative knowledge with a diverse group of students looking for painting, photography, drawing, scrapbooking and other craft/art related instruction.

Library 275-BOOK

Special Father's Day Storytime is Friday, June 14 at 10 a.m. Toddlers and preschool children are invited to join us for a wonderful story time and create very unique craft projects. Volunteer readers are welcome.

Summer Reading Program: "Reading by Design" runs until Aug. 11. Sign-ups begin will continue throughout the program. Children of all ages are welcome to participate. Join the base library staff every Friday at 10 a.m. for a special Summer Reading Program event.

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


Coffee and Coloring is every Tuesday from 11 a.m.-2 p.m. Enjoy a cup of coffee or tea while coloring designs created for adults. Call or e-mail the library for more information.

Sign up for FSS Texting! Receive FSS event info straight to your phone by signing up on Edwardsfss.com! We promise we won't spam you—each keyword will receive an average of one weekly message!



Adopt me!

Paris is a sweet outgoing young adult with confidence to last her a lifetime. She's definitely one to let you know she would like some attention. She isn't big on talking but loves to give kitty head butts. Paris is waiting for her forever home. Could it be with you? Call APET at 258-9525 today!



AHOY!

DESERT PIRATES,

(FROM YE OL' SEA DOGS TO CURRENT SCALLYWAGS)

**YE BE CORDIALLY INVITED TO THE
ALL HANDS AT EDWARDS, AFB!**


**31st Test Evaluation Squadron
CENTENNIAL CELEBRATION
FRIDAY, JUNE 23, 2017**

YAAARRGGHHH!

POINT OF CONTACTS:
Bryana Hudson
(661) 277-4595

SSgt DrewMichael Wells
(661) 275-0727

HERE'S TO 100 YEARS OF PERFECTING LETHALITY — 1917-2017



**R.S.V.P.
JUNE 16th**

Outdoor Recreation 275-CAMP

Summer Pool Hours: Oasis Aquatic Center — Monday, Wednesday and Friday, 6-8 a.m. for lap swimming. Sonic Splash Pool — Wednesday-Friday, 1-6 p.m. Saturday and Sundays, 12-6 p.m. Muroc Pool Splash Night Fridays are 5-8 p.m.

R4R Bungee Jumping Trip is June 17, 7 a.m.-5 p.m. Sign up by June 14 at Outdoor Recreation. Super low price. Release your inner thrill seeker with this awesome bungee jump trip! Leap off a bridge of dizzying heights near Marina del Rey and live to tell the tale. Active duty members and dependents have sign-up priority. Food and beverages will be provided. Participants should bring sun screen. Alcohol is not permitted.

R4R Surfing Lessons is June 24, 7 a.m.-5 p.m. Sign up by June 21 at Outdoor Recreation. Join us as we head down to beautiful Santa Monica beach where we will meet up with instructors of the #1 Surf School in Southern California. All your gear will be provided, so bring your enthusiasm and spend the day with us as ODR takes you on a trip filled with fun, sun and surf! Active duty members and dependents have priority. Food and beverages will be provided. Participants should bring sun screen. Alcohol is not permitted.

Rod & Gun 275-CAMP

"Big 50" Thursdays — The "Big 50" is an ATA Registered shoot in which each participant shoots 50 single targets, 50 double targets and 50 targets from their handicapped position. Call Outdoor Recreation for more information.

High Desert Lanes Bowling Center 275-BOWL

Father's Day Bowling Special is June 18 from 11:30 a.m.-7 p.m. Dads bowl free. Shoe rental included.

Muroc Lake Golf Course 275-PUTT

Swing into Summer Tournament is Saturday, June 17, beginning at 8 a.m. with a shotgun start. Entry fee includes green fees, cart fee, lunch and prizes! The format is 18-hole,

four-person scramble. Limited to the first 18 teams to sign up. Must have an SCGA handicap. Sign up by June 12 at the MLGC golf shop. **Wi-Fi** is now available at the Muroc Lake Golf Course Clubhouse. Also, the pro shop offers special orders and yellow tag sales.

Youth Sports 275-5437

Youth Soccer registration is June 19-July 28. The season starts in September. Call for prices. Open to ages 5-14. All soccer teams will be coed. Youth Sports Programs is also looking for highly motivated volunteers to coach for youth soccer.

Teen Center 275-8336

Teen Robotics Camp is June 26-30, 8 a.m.-

12 p.m. Free for Teen Center members. Non members welcome for an entrance fee. Here is a chance for teens to learn how to design, build and program a VEX Robot system. If you are a teen between the ages of 13-18 and are interested in an engineering career, or just like to figure out how things work, then this robotics camp is for you. FMI, call 275-5437.

Teen Mountain Adventure Camp is July 10-13 at Big Bear. This camp will feature four days and three nights at beautiful Big Bear, California. Activities will include zip lining, horseback riding, kayaking and the Great All-American Giant Squirt Gun fight. All for an amazing price. Don't miss it. There is no deadline to sign up for this camp but once it is full a waiting list will be formed.

Teen Leadership Camp is July 24-27 at Big Bear. This camp will feature four days and three nights. This camp is for teens that would like to learn or improve on their leadership skills. Teens will plan activities such as community service projects, fundraisers and career preparation. This camp is also for anyone interested in potentially joining the Keystone Club. Daytime activities include zip lining, a cooking class, kayaking and the Great All-American Giant Squirt Gun Fight. There is no deadline to sign up for this camp, but once it is full a waiting list will be formed.

Rosburg Fitness Center 275-GYM1

NEW Operating Hours — Effective June 11, the gym will be open Monday-Friday from 5 a.m.-7 p.m. Saturdays from 8 a.m.-4 p.m. Sundays and holidays the gym will be closed.

Rosburg Fitness Center is currently looking for certified personal trainers with at least 100 hours of individual fitness program experience. Please call the gym at 275-4961.

412th Security Forces Squadron issues speeding citations

The 412th Security Forces Squadron issued 22 speeding citations and processed two driving suspensions from May 29 through June 4.

Citations issued

1 to 10 mph.....	2
11 to 15 mph.....	12
16 to 20 mph.....	6
21 to 24 mph.....	2
25+ mph	0

Driving privilege suspensions (current)

15 days.....	5
30 days.....	0
60 days.....	0
90 days.....	0
180 days (six months)	2
365 days (one year).....	20
730 days (two years).....	0
1,095 days (three years).....	0

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.

Schaefer stresses perseverance, passion to students

By Kenji Thuloweit
412th Test Wing Public Affairs

Brig. Gen. Carl Schaefer, 412th Test Wing commander, had the unique honor of speaking at the first ever eighth grade promotion ceremony for Fulton and Alsbury Academy of Arts and Engineering in Lancaster, California.

The newly opened school held its first promotion ceremony next door in New Vista Middle School's gymnasium, which was filled to capacity with family, friends and students.

Schaefer served as the VIP guest speaker for the ceremony. He urged the students to set goals and work hard to achieve them. Schaefer grew up with the Air Force as the son of an Airman. He reminisced about seeing jets flying and asking, "There's people that get paid to do that? How do I do that?"

He said it was about middle school when he decided he wanted to fly jets for a living.

"So how do I do that? Well, I have to go to college to be a pilot and the place where you are guaranteed to fly is the Air Force Academy."

Schaefer said he worked to complete all the requirements to get into the Air Force Academy. His father even drove him to the academy in Colorado to drop off his application in person to ensure it was received by the deadline.

The general also spoke about a 28-year-old Air Force master sergeant and single father that he helped become a pilot. He explained that there's a lot a person has to do to become a pilot including going to Air Force Officer Training School and then flight training. After doing all that and overcoming a few



Brig. Gen. Carl Schaefer, 412th Test Wing commander, addresses eighth-graders at a promotion ceremony for Fulton and Alsbury Academy of Arts and Engineering students in Lancaster, California June 5. (U.S. Air Force photo by Kenji Thuloweit)

obstacles, the former master sergeant later contacted Schaefer as a new lieutenant and pilot.

"If you find something you're passionate about and it becomes a career, you'll never work a day in your life," Schaefer said.

According to the Lancaster School District, the Fulton and Alsbury Academy of Arts and Engineering is named after famed Air Force and NASA test pilot Fitz Fulton and Scaled Composites pilot Mike Alsbury who died in October 2014 in the crash of SpaceShipTwo. The year-old middle school is dedicated to students interested in rigorous and relevant studies in arts and engineering.



Pride Month Color Run

Senior Airman Andrew Kewell, 412th Security Forces Squadron, finishes first in a blast of color during the Pride Month Color Run June 6. Approximately 40 runners turned out for the event. Dr. David Smith, 412th Test Wing installation support director, opened the morning's event by reminding people that placing value in one another is more important than the things that make them different. (U.S. Air Force photo by Christopher Ball)

Edwards AFB True-Fit Challenge

When: 20-22 June between 0730-1130
Where: Fitness Center Outdoor training area

In honor of Men's Health month, the True-Fit challenge aims to test your inner warrior power to determine if you are truly strong or a wannabe!

**DON'T TALK. DON'T THINK. JUST DO IT ... NOW!
STOP COMPARING YOURSELF TO OTHERS AND
START COMPETING WITH YOURSELF**

1. Course Stations

Station 1: Pull-ups (30 for men; 15 for women)

Station 2: Deadlifts

(20 for men {135 lbs.}; 8 for women {95lbs.})

Station 3: Kettlebell snatch

(25 for men {30 lbs.}; 10 for women {18 lbs.})

Station 4: Box Jumps

(30 for men {30"}; 15 for women {24"})

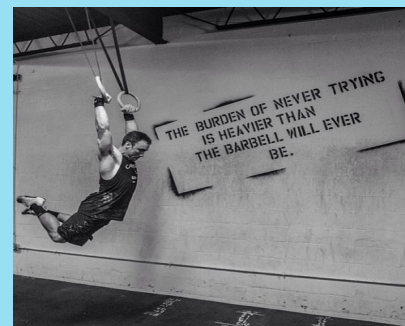
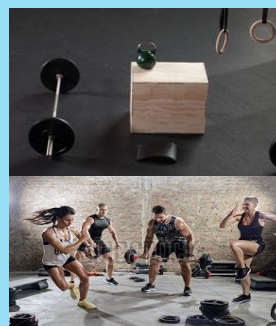
Station 5: Tire Flips (10 for men; 4 for women)

Station 6: Seated Rope Pull (45lbs. for men; 25lbs. for women)

Station 7: Shuttle Run (~30 yards)



Participants complete each station as quickly as possible to



Questions or to register, please contact the Health Promotions Manager



This Week in Edwards History

On June 5, 1948, Northrop's YB-49 No. 2, a prototype flying wing jet bomber, went out of control during its 25th test flight and crashed about 10 miles northwest of Muroc Air Force Base. Three officers and two civilian aircrew were killed. The pilot was Maj. Daniel Forbes Jr. and the copilot was Capt. Glen Edwards. The aircraft was testing stall recovery performance when it suffered a catastrophic structural failure with the outer wing panels tearing off. In December 1949, Muroc was renamed Edwards Air Force Base in honor of Capt. Edwards. (Edwards History Office file photo)

Professional Development



The May 2017 First Term Airman's Center class poses for a group photo on the rooftop patio area of Club Muroc May 26. FTAC is a five-day course that provides informative briefings and training for newly assigned Airmen who have just arrived at their first permanent duty station. Upon completion of the course, Airmen will be better prepared to transition out of the technical training environment and into the operational Air Force.

The Edwards Professional Development team also offers Airman Professional Enhancement Courses. Enlisted instructors and leadership want to create a culture of development with a constant focus on professional development. From junior Airmen to senior NCOs and captains, each class has up to 34 seats available and are taught in a classroom behind the Education Center on Methusa Rd. in Bldg. 2460, Room A. Interested Airmen can search "Edwards AFB Professional Enhancement Campus" online for more information and to sign up, or call 277-3301. They can also locate information on Facebook by searching "Edwards AFB FTAC." (Courtesy photo)



Traditional dances and music performances accompanied Far East and Pacific foods at the Asian Pacific American Heritage Month Culture Show and Food Tasting event at Stripes Lounge May 24. The event was the finale of the month at Edwards. (U.S. Air Force photo by Joseph Pol Sebastian Gocong)

Asia Pacific month finale

People from across the base descended on Stripes Lounge May 24 for the finale of Asian Pacific American Heritage Month.

Traditional foods from the Far East and the Pacific were plentiful along with several cultural performances featuring dancing and music.

At Edwards, the month was observed with a series of events presented by the 412th Test Wing and NASA's Armstrong Flight Research Center. The events celebrated the cultural traditions, ancestry, native languages and unique experiences represented among more than 56 ethnic groups from Asia and the Pacific Islands who live in the United States.

Check out more photos at www.edwards.af.mil.

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