

Public Affairs, Volume 66, Number 13

— June 15, 2018

416th FLTS completes Joint Strike Missile test program



A U.S. Air Force F-16 Fighting Falcon carries a developmental test version of Norway's Joint Strike Missile. The 416th Flight Test Squadron recently wrapped up JSM testing. (U.S. Air Force photo by Christian Turner)

By Kenji Thuloweit 412th Test Wing Public Affairs

A team of U.S. Air Force engineers, test pilots and Norwegian government and industry personnel recently completed a large phase of testing for the Joint Strike Missile.

The JSM is Norway's advanced anti-surface warfare missile designed to be carried in the new F-35A's internal weapons bay. The missile can be employed against sea- and land-based targets. Norway is a partner nation in the development of the fifth-generation Joint Strike Fighter.

Before proceeding with integration testing on the F-35A, the JSM was tested at Edwards AFB on F-16 Fighting Falcons from the 416th Flight Test Squadron. "As a mature platform with certified interface standards, the F-16 makes a perfect carriage platform for weapon development while the eventual host aircraft is still under test," said Collin Drake, 416th FLTS JSM project engineer. "It made it a lot more efficient and effective to use F-16s to be able to test mid-cycle a new type of weapon."

Drake said the weapons development program at Edwards began in 2015. The JSM missile system was matured and proven with ground testing, captive carriage testing (flight test missions to ensure the weapon would perform its designed functions prior to being released from the aircraft), and live-drop testing to verify the JSM's ability to be safely released from the aircraft and perform its autonomous functions.

Testing included multiple variants of the JSM that increased in complexity and capability throughout the course See JSM page 3

TPS Class 17B graduates, 26 new testers enter world

By Kenji Thuloweit 412th Test Wing Public Affairs



U.S. Air Force Test Pilot School Class 17B poses in front of the X-15 hypersonic rocket plane in March 2018. The class graduated June 8. (U.S. Air Force photo by Ethan Wagner)

United States Air Force Test Pilot School Class 17B stood proudly before friends, families, base leadership and fellow testers in Hangar 1623 as they received their Master of Science Degree in Flight Test Engineering June 8. As each graduate crossed the stage they received the graduate plaque from TPS, the diploma from Air University and the graduate coin.

The graduation is the culmination of an intense, 48-week

program that included more than 2,500 hours of academics and approximately 120 hours of in-flight training; transforming top operational pilots, navigators and engineers into elite flight test professionals.

Students from Italy and Israel were among the mostly U.S. Air Force class. For their master's degrees, the students demonstrated learning by planning and executing real-world test management projects, which formed the foundation for their thesis.

The guest speaker was TPS graduate Col. Jack Fischer, chief of the Space Operations Division for Air Force Space Command. Fischer spent nine years with NASA as an astronaut, which included 136 days in space. He recently returned to the Air Force May 31. He presented Class 17B a flag that was taken to space and recounted how he spoke with the students from the International Space Station.

"You have a skillset that can make a huge impact on the aerospace community and any acquisition program, anywhere," said Fischer. "You all are comfortable being uncomfortable; you push the boundaries. You can apply your knowledge and experience to translate those requirements that the engineers use to build and create the capabilities the warfighters use to fight."

Class 17A graduates join more than 3,000 alumni including 100-plus general officers and 60 astronauts.

2 Desert Wings

Bundles for Babies prepare new parents for baby

By Laura Motes

412th Test Wing Public Affairs

The Airman and Family Readiness Center educates future parents on preparing for a new baby with their Bundles for Babies class.

The class is sponsored by the Air Force Aid Society and available free to all military families attached to Edwards Air Force Base. The program is held quarterly with the last class held June 8.

The class includes both new and experienced parents who come to learn about resources available during and after pregnancy. Presentations are given by Julie Wilbanks, AFRC personal finance manager and Arlene Johnson, Family Advocacy outreach manager. Presentations cover topics such as budgeting for babies, communication, breast-feeding and remaining calm during stress.

Throughout the class there are opportunities for current parents to share advice and suggestions with new parents.

"It was fun getting to know other moms and receiving real-world advice," said Paige Deshetler, an expecting mother. "The program provided important information, the presenters were very knowledgeable and I would definitely recommend this class to all new parents."

"The program had really useful information," said Staff Sgt. Gregory Bolden, 31st Test and Evaluation Squadron. "We had questions especially about the WIC (Women, Infants, and Children) program that were answered by this class."

According to Wilbanks, the goal of the class and for the Air



Arlene Johnson, Family Advocacy outreach manager, has future father, Staff Sgt. Gregory Bolden, 31st Test and Evaluation Squadron, try on the empathy belly to simulate the weight that is carried during pregnancy. (U.S. Air Force photo by Laura Motes)

Force Aid Society is to provide budgeting resources as well as get new parents thinking about topics such as estate planning, updating wills, reviewing life insurances and making sure information is updated. "The hope is this class will help lessen the shock of becoming new parents," said Wilbanks.

Each family that attends the class receives a bag with informational pamphlets and a \$50 gift card to help prepare for a new baby. New parents can register for Bundles for Babies by calling the AFRC at 661-277-0723.

From TPS, page 1

Test programs across the Air Force Test Center and beyond integrate TPS graduates into test teams to shape the technology and weapon systems of the future for the Air Force, sister services and allied nations.

TPS CLASS 17B GRADUATES

Capt. Erin Alt Maj. Charles Brantigan Maj. Miguel Carrera Maj. Catherine Chappell Maj. Dustin Duke Maj. Yehuda Eldan (Israel) 1st Lt. Dario Esposito (Italy) Capt. Neil Grigsby Capt. David Guerrero Maj. Brian Heemstra Capt. Stephen Jude Maj. Jared Krueger Maj. John Kryzak Capt. James Lancaster Capt. Nathan McCaskey Capt. David Meyn Capt. Matthew Niemiec Ms. Jessica Peterson Capt. Andrew Rexford Maj. Michael Riddick Maj. Jason Schulze Capt. Jonathan Tellefsen Capt. Kevin Tinsley Capt. Jennifer Yeom Capt. Andrew Burns (National Test Pilot School)

Capt. Rich Agbeyibor (École du personnel navigant d'essais et de reception in France)



(Courtesy graphic)

412th Force Support Squadron upcoming events

Force Support Squadron 275-3826

Save the Date! Summer Bash is July 4 at 4 p.m. at Wings and Roberts Fields. Featuring musical performances by Parmalee and Temecula Road. Plus, an exotic car show, carnival rides, face painting, carnival games, food booths and fireworks at 9:40 p.m. FMI, visit <u>www.edwardsfss.</u> com.

Club Muroc 275-CLUB

Club Muroc Summer Parties — Are you looking to host a squadron event or party this summer? Look no further than Club Muroc! For a low price per person, enjoy our "Patio Burger Burn" option, which includes burgers, hot dogs, macaroni salad, potato chips lettuce, tomato, and onions, condiments and water. All you have to provide are cooks, plates, napkins and utensils. Enjoy the secluded patio with access to the pool. Add our 20 foot water slide for an additional fee. *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.

Birthday Packages — Parties include room rental for up to three hours, 20 kids and use of the projector for movies. Pizza and ice cream parties available.

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 <u>www.kidsbowlfree.com</u> 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.

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.

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

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.

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. Engraving Shop Email Change

The Engraving Shop's email address is servicesengraving412@gmail.com.

Rosburg Fitness Center 275-GYM1

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. **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 Mr. Peter Smith at 275-4961.

Library 275-BOOK

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!

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. As always, drop by the Ed Center for any questions.

> Aero Club 275-AERO Flight Instructors Needed!

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

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. For more information visit <u>myairforcelife.com/aeroclubs.</u>



Adopt me!

Elvis is a confident sweet boy who loves people and attention. He's got a cute playful side and needs a family who's ready to have a little fun. He likes kids, other cats and should adjust well to a friendly K-9. If a young confident kitty is what you seek then look no further! Call APET at 258-9525 today!

Outdoor Recreation 275-CAMP

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.

June 16 - "Coco" at Sonic Splash Pool. Sign up by June 8.

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 Swin 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 <u>www.edwardsfss.com</u> 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.

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.

The Benefits of Being a Family Child Care Provider — 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.

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 Forceled joint base without a spouse and a guest.

Information, Tickets and Travel 275-TRIP

New Travel Specialist - Save hours of searching the internet by contacting Candace at Edwards ITT. She has over 10 years of travel experience and is here to help you plan the vacation of your dreams. Custom packages are available including resorts, cruises, flights and tours.

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. ITT is located in the Oasis Community Center. Call 275-TRIP (8747) for more info.

Teen Center 275-8336

Teen Center Summer Programs are for ages 13-18.

Raging Waters Trip will be June 19 from 8 a.m.-8 p.m. Call for prices. Sign up now.

Ice Skating, Sky High Trampolines and Valencia Mall Trip is July 12 from 8 a.m.-9 p.m. Call for prices or to sign up now.

Instructional Classes — Gymnastics (ages

3-17 years) are Tuesdays, Wednesdays and Thursdays. Email ssgymnastic1@yahoo.com for more information.

Youth Sports 277-8961

Youth Soccer — Sign up June 25-July 27. Season starts in September. Ages 5-14 with all teams being co-ed. Call for prices. Discounts for siblings who sign up. Late fee will be charged after July 27. Volunteer coaches are also needed. Start Smart Soccer for ages 3 and 4. Season beings Sept. 12. SIgn up by Aug. 13. Call for prices.

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. Children will enjoy creating all types of cool arts and crafts.

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. Torch Club is every Tuesday, 3:30 p.m. - 4:30

p.m. in the Torch Room. 4-H Photography Club - is the first Tuesday of the month from 3:30 p.m.-5 p.m. Youth will have the opportunity to learn and experience basic photography skills. See Ms. Kerry for details.

4-H Cooking Club is every Thursday of the month, 3:30 p.m.-5 p.m. Youth will have the opportunity to learn and experience food nutrition, preparation and basic cooking skills.

412th Security Forces Squadron issues speeding citations

The 412th Security Forces Squadron issued 9 speeding citations and pro-cessed three driving suspensions from June 4 through June 10.

Driving privilege suspensions (current)

Citations issued	15 days	0 0
1 to 10 mph	45 days	0
11 to 15 mph	0 90 days	1
16 to 20 mph	4 180 days (six months)	0
21 to 24 mph	4 365 days (one year)	39
25+ mph	0 730 days (two 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.

USAF OSI captures most wanted Air Force fugitive

By Linda Card AFOSI Public Affairs

On June 6, 2018, Air Force Office of Special Investigations Detachment 303 Special Agents at Travis Air Force Base, Calif., apprehended Air Force fugitive Capt. William Howard Hughes, Jr. at his California residence without incident.

On June 5, during a passport fraud investigation, the U.S. Department of State's Diplomatic Security Service interviewed an individual claiming to be Barry O'Beirne. After being confronted with inconsistencies about his identity, the individual admitted his true name was William Howard Hughes Jr., and that he deserted from the U.S. Air Force in 1983.

Capt. Hughes claimed that in 1983 he was depressed about being in the Air Force so he left, created the fictitious identity of O'Beirne and has been living in California ever since.

Capt. Hughes deserted the Air Force in July 1983 after returning from temporary duty in Western Europe. Hughes was last seen in the Albuquerque, N.M., area withdrawing \$28,500 from his bank account at 19 different branch locations.

At the time of his disappearance Capt. Hughes had a Top Secret/Single Scope Background Investigation clearance, but only had access to U.S. Secret and North Atlantic Treaty Organization Secret information.

He was assigned to the Air Force Operational Test and Evaluation Center, Kirtland AFB, N.M., where his duties included classified planning and analysis of the NATO command, control, and communications surveillance systems.

Interviews of friends, associates and coworkers failed to disclose information regarding Hughes' whereabouts. Checks with law enforcement agencies both in the United States and overseas also failed to locate him.

Capt. Hughes, who was single, was dispatched to the Netherlands on July 18, 1983, to work with NATO officers on the operations of Airborne Warning and Control electronic surveillance aircraft. He was due back in Albuquerque that Aug. 1. But after leaving for Europe, he was never seen again. On Dec.



Capt. William Howard Hughes, Jr. was formally declared a deserter by the Air Force Dec. 9, 1983. He was apprehended June 6, 2018, by Air Force Office of Special Investigations Special Agents from Detachment 303, Travis Air Force Base, Calif., where he's awaiting pre-trial confinement. (U.S. Air Force photo)

9, 1983, the Air Force formally declared him a deserter.

Hughes is currently at Travis awaiting pre-trial confinement.

From JSM, page 1



A weapons load team prepares to remove a Joint Strike Missile from a 416th Flight Test Squadron F-16 Fighting Falcon following a captive carriage test flight, Feb. 27, 2018. (U.S. Air Force photo by Christopher Okula)

of the program with the first JSM being a glide-only weapon with an active autopilot, but without a live engine, according to Drake. The next several tests used a version of the JSM that still did not have a warhead, but had a live engine and navigation avionics. The different variants proved the JSM could sustain extended periods of flight under its own power and successfully navigate over different terrain.

All variants of the JSM were inert until the final flight test events where it actually hit a target with full mission systems software and guidance. Throughout the test program, numerous software and hardware changes and updates were made. All live releases of the weapon were conducted at the Utah Test and Training Range. "The multi-national test team, including the 416th, was able to work with the weapon developer over the course of the program to improve the JSM in an incremental fashion, which has resulted in a reliable and high-performance missile system," Drake said. "It was an enormous milestone to release the final, all-up-round weapon."

Edwards AFB's airspace, personnel, assets and the American-Norway alliance make it the ideal situation to test the JSM.

"The weapons ranges needed simply don't exist in Norway. So they were able to come here and utilize the Edwards airspace and ground test facilities for the captive carriage flight and ground testing. The 416th FLTS has a long and storied history of testing systems with our foreign partners, especially with Norway. Norway has been a partner in F-16 development since its inception, so it was a natural fit to work with the Norwegian Ministry of Defense to make this technology development program a reality. The 416th is equipped to provide flight test expertise and is adaptable to accommodate the testing of first-of-its-kind hardware and software, such as that of the Joint Strike Missile," said Drake.

The next step is for the Norwegians to integrate the JSM on to the F-35 Joint Strike Fighter and then on to further weapons and integration testing.

"Our team is very proud to have played a part in the success of this multi-agency, multi-national test program," said Drake. "It has been an honor and a pleasure to work with the many organizations involved, whose technical prowess came together to certainly be greater than the sum of their parts."

This Week in Edwards History

On June 13, 1962, a test team conducted the first flights of Project Rough Road, an evaluation of the short-field takeoff and landing capabilities of the production C-130B. Test aircraft were loaded to a gross weight of 101,000 lbs and subjected to a variety of hard and soft sand and clay runways. (Edwards History Office file photo)





(U.S. Air Force photo by Christopher Okula)

New 412th MSG boss

Col. Jeffry Hollman (right) took the reins of the 412th Mission Support Group during an assumption of command ceremony held at Club Muroc June 4. Brig. Gen. Carl Schaefer, 412th Test Wing commander, presided over the ceremony and handed Hollman the group guidon.

As 412th MSG commander, Hollman will oversee mission support to more than 12,000 personnel assigned to the Air Force Test Center, 412th Test Wing, Air Force Research Laboratory, NASA's Neil Armstrong Flight Research Center and 37 associate units on a 308,000 acre base. The group's commander directs force protection, communications, civilian and military administration, supply transportation, fuels and deployment activities as well as morale, welfare and recreation services. He is also the liaison to the local school district, Army & Air Force Exchange Service and the Defense Commissary Agency.

Hollman will lead a workforce of more than 1,300 people.

He comes to Edwards after serving as the provost marshal at Headquarters, United States Forces, Japan, and division chief for security forces at Fifth Air Force, Directorate of Logistics and Engineering.



Follow EAFB online



To start receiving Edwards Alerts text messages on your phone, text "Follow EAFBAlerts" to 40404



Commander, 412th TW	Brig. Gen. Carl Schaefer
Installation Support Director .	Dr. David Smith
Command Chief Chie	f Master Sgt. Roosevelt Jones
Director, 412th TW Public Affairs Ed Buclatin	
Editor	Kenji Thuloweit
Contributorsl	Dawn Waldman, Laura Motes

To submit articles or upcoming events send an email to newsroom@edwards.af.mil