

BLAZE 5/6 presents leadership highlight award

Name: Airman 1st Class Mufasa Coley

Hometown: Miami

Unit: 14th Civil Engineer Squadron

Duty Title: Firefighter

Coley received the BLAZE 5/6 Leadership Highlight Award for the month of September 2017 in recognition of his outstanding leadership.

Coley demonstrated superb firefighting during a house fire on base where he was a part of the initial attack team. He entered the house while it was ablaze and gathered critical infrastructure details of the fire spread and saved two family pets. His direct involvement contributed to the salvage of the building's contents and the safety of all seven residents involved.

Coley is also an avid football fan who is playing for his squadron flag football team and enjoys watching both college and professional games. He also has a passion for the medical treatment side of firefighting, and volunteers at local sporting events as a standby medic.



Courtesy photo

Airman 1st Class Mufasa Coley, a 14th Civil Engineer Squadron firefighter, is awarded the September BLAZE 5/6 Leadership Highlight Award Oct. 2, 2017, on Columbus Air Force Base, Mississippi, from members of the BLAZE 5/6.

Mon	Tue	Wed	Thur	Fri	Sat/Sun	Long Range Events
23	24 MSU Veterinary School Tour	25 Dorm Dinner, @ Montgomery Village	26 Daedalians Dinner meeting, 6 p.m. @ Club	27 SUPT Class 18-01 Graduation, 10 a.m. @ Kaye	28/29 28th: Base Trick or Treating, 6-8 p.m. @ Capitol, State & Magnolia housing 28th & 29th: Autocross, @ SAC Ramp	Nov. 9: International Spouses Luncheon Nov. 11: Veterans Day Parade and Ceremony Nov. 11: MSU vs. Alabama Nov. 14: Wing Newcomers Orientation Nov. 15: Hearts Apart Nov. 16: Daedalian's Meeting Nov. 16: Dorm Dinner Nov. 17: SUPT Class 18-02 Graduation Nov. 18: Mercer vs. Alabama Nov. 23: Thanksgiving Nov. 24: AETC Family Day
30	31 Enlisted Promotions/Quarterly Awards	1 Wounded Warrior Visit	2	3 SUPT Class 18-02 Assignment Night	4/5 4th: LSU vs. Alabama/UMass vs. MSU	

Silver Wings

How to reach us

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Submission Deadline

The deadline for submitting copy for next week's SILVER WINGS is noon Monday. Articles may be dropped off at the public affairs office or e-mailed.

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The SILVER WINGS staff reserves the right to edit or rewrite all copy submitted when necessary. All photos are U.S. Air Force photos unless otherwise stated.

Submit all advertising to the Columbus, Miss., Commercial Dispatch advertising department one week prior to desired publication date. The advertising department can be reached at (662) 328-2424.

Oct. 19-21

Celebrated novelist Daniel Wallace returns as the keynote author of the 29th annual Eudora Welty Writers' Symposium, Oct. 19-21. Wallace will start off the symposium with his reading in Poindexter Hall's Connie Sills Kossen auditorium at 7:30 p.m. Oct. 19, followed by a book signing with all symposium authors. For a list of times and speakers, visit <http://www.muw.edu/welty>. All symposium events will be held on the Mississippi University for Women campus and are free and open to the public.

Oct. 20-21

Caledonia Days 2017 are Oct. 20-21 at Ola J. Pickett Park in Caledonia, Mississippi. Food and craft vendors are open from 5-10 p.m. and live music begins at 7 p.m. Oct. 20. The vendors and local entertainment continue from 9 a.m.-5 p.m. Saturday, Oct. 21.

Oct. 21

The Mississippi State University Bulldogs football team will face the University of Kentucky Wildcats at 3 p.m. Oct. 21 at Davis Wade Stadium in Starkville, Mississippi.

Oct. 27

Jason Aldean, country music singer, will perform at 7:30 p.m. Oct. 27 at the BancorpSouth Arena in Tupelo, Mississippi.

Oct. 28

There will be a Veteran Luncheon for all veterans, active-duty and Reserve military and members of the Caledonia community, from 11 a.m.-2 p.m. Oct. 28 at Caledonia Park, Mississippi. If inclement weather occurs, the event will be moved to the Caledonia Community Center. The menu will

consist of barbeque pork, grilled chicken, baked beans, cole-slawn, bread and dessert. For more information, call or text (662) 251-1751.

Nov. 2

A Vietnam Veterans Memorial replica wall dedication begins at 10 a.m. Nov. 2 at the Veterans Memorial Park in Tupelo, Mississippi. This 300-foot permanent memorial is inscribed with the names of 58,267 veterans killed or are missing in action from the Vietnam War.

Nov. 7

A Vietnam Veterans Welcome Home Celebration will occur from 10-11 a.m. Nov. 7, at the Leo Seals Football Complex at Mississippi State University in Starkville, Mississippi.

WARNING SIGNS

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- Fruity Odor on the Breath
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Bargain Line advertisements must be turned in to the Silver Wings office in the 14th Flying Training Wing headquarters building by noon Monday to be included in the following week's issue. Late ads will be held over for the next issue.

Reruns must be phoned in to the Silver Wings office, 434-7068, by noon Monday for inclusion in the next week's issue. Please do not re-submit ads for rerun on this form. Advertisements should contain a home phone number, home address or both. Duty phone numbers will not appear in the ads.

Advertisements for private businesses or services providing a continuous source of income, such as baby-sitting or rental property, may not appear in the Bargain Line. They may, however, be purchased through the Silver Wings publisher, 328-2424. Please fill out this form completely. The Silver Wings staff reserves the right to edit ads as necessary.

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AFRL, Harvard researchers invent new hybrid 3-D printing method for flexible electronics

Marisa Alia-Novobilski

Air Force Research Laboratory

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — It is often said that ‘two heads are better than one,’ for the Air Force, leveraging the expertise and insights of academia has led to advances in materials development and processing destined to be a game changer for the future fight.

A collaboration between scientists at the Air Force Research Laboratory and Harvard University’s Wyss Institute for Biologically Inspired Engineering has resulted in a new method for digital design and printing of stretchable, flexible electronics. The process, called Hybrid 3-D printing, uses additive manufacturing to integrate soft, conductive inks with a material substrate to create stretchable, wearable electronic devices.

“This is the first time a 3-D printer has been shown, in a single process, to print stretchable sensors with integrated microelectronic components,” said Dr. Dan Berrigan, a research scientist at the AFRL Materials and Manufacturing Directorate. “Starting from nothing, the printer builds an entire stretchable circuit that blends the mechanical durability of printed components with the robust performance of off-the-shelf electronics.”

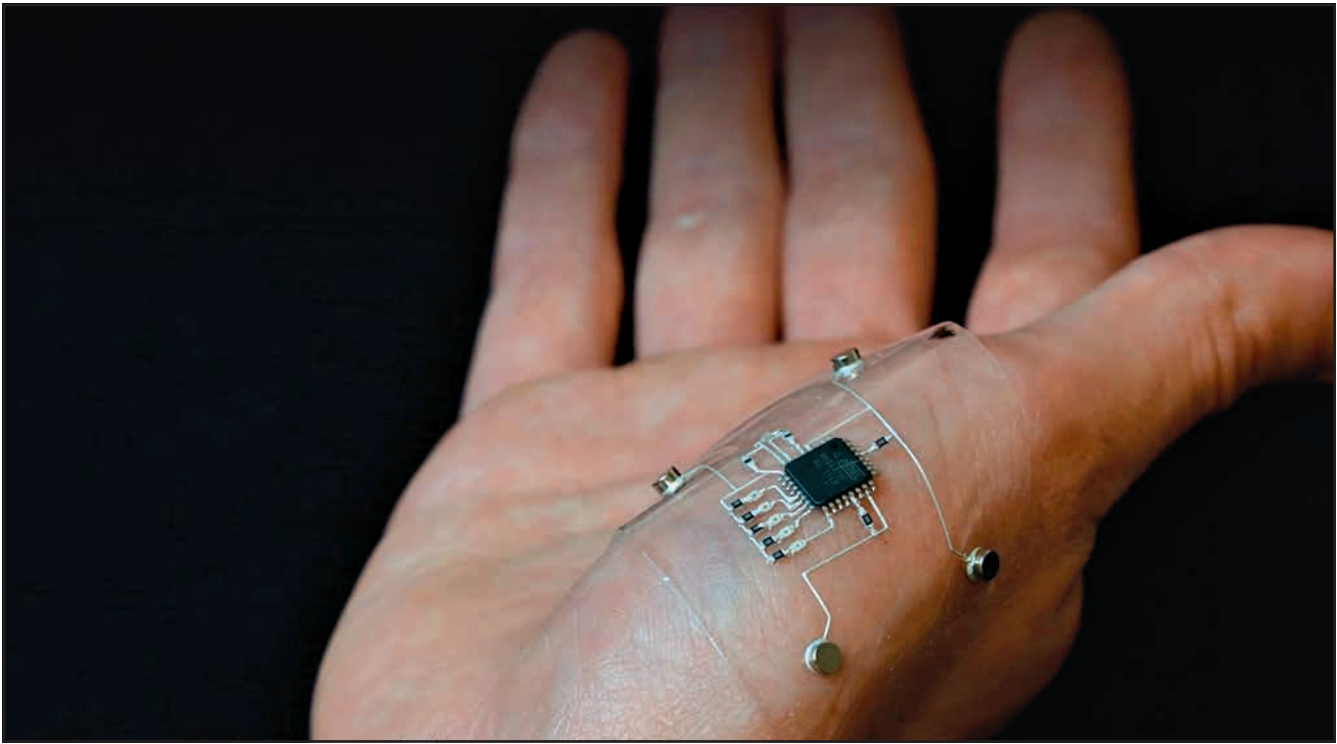
In this demonstration, a 3-D printer was used to print conductive traces of flexible, silver-infused thermoplastic polyurethane. A pick-and-place method was then used to set microcontroller chips and LED lights into the flexible substrate, augmented by an empty printer nozzle and vacuum system to create the hybrid system.

When tested, the additively manufactured, hybrid-electronic devices were able to maintain function even after being stretched by more than 30 percent from original size.

“This has a lot of potential for Air Force applications, particularly in the areas of rapid prototyping, wearable electronics, sensors and human performance monitoring,” said Berrigan. “Skin-worn electronics have the potential to provide feedback on movement, body temperature, fatigue, hydration and other metrics crucial to understanding Airmen performance. However, while skin is inherently soft and stretchable, electronics and sensors are not.”

“Additive manufacturing lets us custom design complex form factors that can enable electronics to be integrated into unique places,” he continued. “Repackaging high-performance electronics to be stretchable and tailored to an individual often begins with rethinking the materials and processes used to manufacture these devices.”

As part of the study, the Harvard team printed sensors and placed microelectronics onto a spandex sleeve able to re-



Courtesy photo by Harvard Wyss Institute

A technique called Hybrid 3-D printing, developed by Air Force Research Laboratory researchers in collaboration with the Wyss Institute at Harvard University, uses additive manufacturing to integrate soft, conductive inks with material substrates to create stretchable electronic devices. A potential application is to create sensors to enable better human performance monitoring.

spond to the movement of the wearer’s arm. They also created a pressure sensor for shoes, able to sense and monitor gait.

AFRL researchers also tested the processes in the lab and are investigating the possibility of using the same methodologies to build antennas and sensors into structures.

“The use of 3-D printing allows us to fundamentally rethink how we package and design electronics for Air Force needs,” said Berrigan. “We are no longer limited to in-plane electronics manufacturing, which opens up opportunities to merge structure and electronic function.”

One challenge the team is focusing on for future work will address the powering of the devices, which would require a stretchable battery or other printed power source to be integrated into the manufacturing process.

“Integrating a robust, flexible and high energy-density battery has been difficult because what makes a good battery does not necessarily make for a good, soft-material system,” said Dr. Michael Durstock, AFRL Soft Matter Materials Branch

chief and a co-author of the study.

Though the materials and methodology are still in the early stages of development, the potential future application space is enormous.

“We have both broadened the palette of printable electronic materials and expanded our programmable, multi-material printing platform,” said Dr. Jennifer Lewis, a research collaborator from the Harvard Wyss Institute. “This is an important first step toward making customizable, wearable electronics that are lower-cost and mechanically robust.”

The paper is the first published collaborative effort between researchers at AFRL and Harvard in this area.

“This effort highlights our relationship with academia,” said Berrigan. “We can learn from their expertise and insight and make the connections to enable the technology and applications for Airmen as quickly as we can. Prof. Lewis’ team has been invaluable to us, and we are looking forward to future collaborations.”

INSTRUCTOR

(Continued from page 1)

come the Chief of Academics for the T-37 Tweet.

In 1969 he was selected to fly the F-4 Phantom II, stating if he hadn’t been selected for the spot he could have been volunteered to fly helicopters into Vietnam.

Following his next two assignments he was sent to South Korea for an assignment that he remembered fondly.

“They sent me to Osan Air Base in [South] Korea for a remote assignment but my wife went with me anyway,” said Hopkins with a laugh. “We lived in the middle of a rice paddy, where my daughter was born as well; it was interesting to say the least.”

Following his time in South Korea he became the Operations Officer for the 1st Tactical Reconnaissance Squadron, then the Chief of Standardization and Evaluation for Sheppard Air Force Base, Texas, then took command of the 91st Flying Training Squadron.

“After the 91st I was promoted to colonel in December of 1981 and was a group commander of about 4,000 people. That was a lot of fun,” Hopkins said. “Then I went to Randolph AFB, Texas, as the Deputy Inspector General and I retired then in March of 1989.”

After retiring he worked at a department store selling clothes for three years; Hopkins said it was fortunate the positions for T-1 sim instructors then became open for civilians.

“I came over for an interview at that time and was hired; the boss



Dale Hopkins, T-1A Jayhawk simulation instructor pilot, sets up a T-1 simulation Oct. 17, 2017, on Columbus Air Force Base, Mississippi. He briefs students before and after the three hours of flying in the simulation. He also helps students understand the T-1 and gives them feedback on their flight performance.

“What impresses me most is the quality of the students,” Hopkins said.

had asked when I could go to work and I said ‘Well I’m not doing anything this afternoon,’ so I started the very next Monday,” Hopkins said.

The T-1 sim instructor’s role is to train student pilots in the T-1 simulators so they can gain experience as the pilot and co-pilot. Working together, the instructor will help when the students need it and provide an assessment of each student pilot’s performance in each role.

“The students like him because

he’s a more relaxed kind of instructor,” said Pat Wilson, T-1 sim instructor.

Wilson has been working with Hopkins for more than 10 years and noticed the students gravitated toward Hopkins’ positive attitude and expertise.

“You would have never guessed he had been a colonel,” Wilson said. “You know you’re in the Air Force it’s just go, go, go but this is more of a retirement job, its relaxed and you don’t have to worry about the nuts and bolts, he always



U.S. Air Force photos by Airman 1st Class Keith Holcomb

Dale Hopkins, T-1A Jayhawk simulation instructor pilot, briefs two student pilots before a simulated flight Oct. 17, 2017, on Columbus Air Force Base, Mississippi. Hopkins has over 50 years of Air Force experience he’s able to offer the newest Air Force aviators.

jokes that he’ll do this job till he’s one hundred.”

Hopkins said a large reason he enjoys the job so much is he isn’t worrying about doing multiple jobs at once. Unlike being a commander, he only needs to worry about teaching the T-1 to motivated and intelligent students.

“What impresses me most is the quality of the students,” Hopkins said. “When I was on the board we would look through the applicants’ files and select the ones we thought were best fit for the job. Even with the pilot shortage, pilot training hasn’t changed a bit. You can’t afford to place someone who’s failing in the cockpit of an aircraft. People’s lives depend on it.”

Knowing the importance of his job and still enjoying it keeps Hopkins smiling throughout his

briefings, making students laugh while giving them some of his over 50 years of experience. He speaks to them with the same motivation they show to him every day.

“To be respected you have to respect others; I’ve always treated my troops with respect,” Hopkins said.

For Hopkins this is the job he would like to do until he can’t work anymore. Flight is his passion; he said his ideal days as a pilot were cool and clear skies, throwing on the afterburners, flying around doing acrobatics and following it up with practice landings.

“I don’t know if I can describe it; I always wanted to fly,” Hopkins said. “Now the simulator is just fine, it’s close enough since I can do what I used to do but now it’s downstairs in a simulator.”

Columbus Club announces local prize winners

14th Force Support Squadron

There may never be a better time to experience the value of Air Force Club membership. Second Lt. Kyle Mallard, 14th Student Squadron, won a lifetime Club membership recognized worldwide and Lt. Col. Nathaniel Miller, 14th Flying Training Wing Air Force Community Partnership Director, won a cash prize of \$1,000.

Air Force Clubs feature dining and catering discounts, membership only programs worldwide access and privileges

and it is the place to go for Air Force traditions. And to make things even better, a new Club Member Portal has removed the need for credit approval. Now members can pay dues via any credit or debit card or by electronic check.

Join by Oct. 31 to automatically be entered for a chance to win \$10,000. To sign up, go to www.myairstorcelife.com, click the “For Club Members” button on the left and simply follow the prompts.

“The prompts lead the soon to be new member to our new membership portal hosted by our partner memberplanet,

we’ve joined with them to provide an updated system where the members is more in control,” said Charleigh Ford, Columbus Club Manager.

The memberplanet allows for dues payment options, standardized payment dates, and keeps members better informed about club programs and events in real time. Members can access their account on-line or via a convenient downloadable Apple or Android app.

For more information on the fall membership drive, visit the Columbus Club or call 662-434-2489.

To advertise in Silver Wings, call 328-2424

12th FTW Commander to speak at SUPT 18-01 graduation

Col. Joel L. Carey will be the guest speaker for Specialized Undergraduate Pilot Training Class 18-01's graduation ceremony at 10 a.m. Oct. 27 at the Kaye Auditorium.

Carey is the Commander of the 12th Flying Training Wing, Joint Base San Antonio-Randolph, Texas. The 12th FTW is the source of America's airpower, delivering unrivaled airpower leaders for the future of the U.S. Air Force. The wing consists of three flying groups and a maintenance directorate spanning more than 1,400 miles from JBSA-Randolph, Texas, Naval Air Station Pensacola, Florida and to the U.S. Air Force Academy, Colorado.



The 12th FTW is responsible for four single-source aviation pipelines – Pilot Instructor Training, Combat Systems Officer Training, Remotely Piloted Aircraft Pilot Indoctrination, and Basic Sensor Operator Qualification. The wing manages all airmanship programs for U.S. Air Force Academy cadets, and Introductory Flight Training for all Air Force officers scheduled to enter pilot, combat systems officer, or remotely piloted aircraft training. The wing also hosts an Introduction to Fighter Fundamentals program and conducts Electronic Warfare Training for the U.S. Air Force and multi-national forces.

Carey was commissioned as a distinguished graduate of the Reserve Officer Training Corps at Baylor University in 1992. He has served in numerous positions at the squadron, group, wing, numbered Air Force, Major Command, and Joint Chiefs of Staff levels. He has deployed in support of Operations Deliberate Force, Provide Comfort, Northern Watch, Southern Watch, Enduring Freedom and U.S. Air Forces Central Command's Theater Security Package.

Carey is a command pilot with more than 2,800 hours, in the F-15C, F-111, EF-111, T-38C, C-208 and MC-12W aircraft including over 500 combat hours.

EDUCATION

1992 Bachelor of Arts in Economics, Baylor University,

Waco, Texas

1998 Distinguished Graduate, Squadron Officer School, Maxwell AFB, Alabama

2006 Master of Military Operational Art and Science, Air University, Maxwell AFB

2006 Air Command and Staff College, Maxwell AFB

2013 Master of Strategic Studies, Air University, Maxwell AFB

2013 Air War College, Maxwell AFB

ASSIGNMENTS

1. May 1993 – July 1994, Student, Undergraduate Pilot Training, Laughlin AFB, Texas

2. July 1994 – May 1998, Student, F-111 Formal Training Unit and student, EF-111 Transition course; later, flight lead and Assistant Chief of Plans, 429th Electronic Combat Squadron, 27th Fighter Wing, Cannon AFB, New Mexico.

3. May 1998 – December 1998, Student, F-15C Formal Training Unit, 1st Fighter Squadron, Tyndall AFB, Florida

4. December 1998 – December 2001, F-15C Mission Commander; Chief of Safety, 12th Fighter Squadron; later, Flight Commander, 44th Fighter Squadron, 18th Wing, Kadena Air Base, Japan

5. January 2002 – July 2005, F-15C Instructor Pilot and Flight Examiner; Assistant Director of Operations, 1st Fighter Squadron; Chief of Standardization and Evaluation, 325th Operations Group, 325th Fighter Wing, Tyndall AFB, Florida

6. July 2005 – June 2006, Student, Air Command and Staff College, Maxwell AFB

7. July 2006 – June 2009, Chief of Policy, 3rd Air Force; later Chief, Commander's Action Group and Executive Officer to Commander, U.S. Air Forces in Europe, Ramstein AB, Germany

8. July 2009 – June 2012, F-15C Instructor Pilot and Flight Examiner; Chief, Plans and Programs, 18 Wing; Director of Operations, then Commander, 44th Fighter Squadron, 18th Wing, Kadena AB

9. July 2012 – July 2013, Student, Air War College, Maxwell AFB

10. July 2013 – December 2013, Vice Commander, 451st Air Expeditionary Wing, Kandahar Airfield, Afghanistan

11. February 2014 – July 2014, Vice Commander, 438th

Air Expeditionary Wing, Kabul, Afghanistan

12. July 2014 – June 2016, Chief, Force Application Division, Force Structure, Resources and Assessment Directorate (J8), Joint Staff, the Pentagon, Washington, D.C.

13. June 2016 - present, Commander, 12th Flying Training Wing, Joint Base San Antonio-Randolph, Texas

SUMMARY OF JOINT ASSIGNMENTS

July 2014 – June, 2016 Chief, Force Application Division, Force Structure, Resources and Assessment Directorate (J8), Joint Staff, the Pentagon, Washington, D.C., as a colonel

FLIGHT INFORMATION

Rating: Command Pilot

Flight hours: More than 2,800, including 516 in combat
Aircraft flown: F-15C/D, F-111, EF-111, MC-12W, C-208, T-37 and T-38

MAJOR AWARDS AND DECORATIONS

Defense Superior Service Medal

Bronze Star Medal

Meritorious Service Medal with four oak leaf clusters

Air Medal with four oak leaf clusters

Aerial Achievement Medal with oak leaf cluster

Air Force Commendation Medal

Air Force Achievement Medal

Combat Readiness Medal with two oak leaf clusters

National Defense Service Medal with bronze star

Armed Forces Expeditionary Medal

Afghanistan Campaign Medal

Global War on Terrorism Expeditionary Medal

Global War on Terrorism Service Medal

Humanitarian Service Medal

Non-Article 5 NATO Medal

EFFECTIVE DATES OF PROMOTION

Second Lieutenant May 16, 1992

First Lieutenant Nov. 8, 1994

Captain Nov. 8, 1996

Major May 1, 2003

Lieutenant Colonel May 1, 2008

Colonel Oct. 1, 2013

(Current as of 29 June 2016)

Hunt Housing tip of the week

Décor or decorative lighting for Halloween must be removed no later than one week after the occasion and are prohibited from being placed higher than the edge of the roof gutter. All decorative lighting must be UL or FM approved for either indoor or outdoor use. For more information of safety or additional questions, please refer to the Columbus Family Resident Guidelines section 8.13.



Remaining Mississippi State home games

Oct. 21: MSU vs. Kentucky

Nov. 4: MSU vs. UMASS

Nov. 23: MSU vs. Ole Miss

For discounted tickets, visit:
<http://tickets.govx.com/ticket/mississippi-state-football/e/206869?near=mississippi>.

14TH FLYING TRAINING WING DEPLOYED

As of press time, 62 TEAM BLAZE members are deployed worldwide. Remember to support the Airmen and their families while they are away.

Deployment numbers provided by the Installation Personnel Readiness Office.



AF officials release 2017 Air Force Handbook 1, Airman and enlisted promotion study guides

Marilyn Holliday

Air Education and Training Command Public Affairs

JOINT BASE SAN ANTONIO-Randolph — Air Force officials have released the 2017 Air Force Handbook 1, Airman and the Enlisted Promotions Study Guides.

AFH-1 is available at http://static.epublishing.af.mil/production/1/af_a1/publication/afhandbook1/afhandbook1.pdf and also on every Airman's government computer desktop. To find AFH-1 on Air Force e-publishing, search for AFHandbook1.

Individual study guides for each enlisted grade, that are created from information within the handbook, are available for immediate download at www.studyguides.af.mil. These guides aid Airmen testing for promotion beginning with the February 2018 testing cycle. A .pdf file for each enlisted grade is available for downloading in preparation for the United States Air Force Supervisory Exam or Promotion Fitness Exam.

As reported previously, master sergeants testing for promotion in the 18E8 promotion cycle will still use the 2015 version of the senior master sergeant study guide as study reference material.

"The publishing of the new Air Force Handbook 1 is the first step toward revolutionizing this product for our Airmen," said Chief Master Sgt. Juliet Gudel, command chief for Air Education and Training Command. "As AETC moves forward with the Continuum of Learning, we need to look at how this product is delivered to the force. In order for our Airmen to be successful, we need to find a way to modularize AFH-1 so that it is portable from any device and from any location."

Also available is the Military Knowledge and Testing System chart. The chart is available as attachment 1 in individual study guides and used to determine information required for promotion testing. The chart helps determine the importance of each section of information for testing to each grade. AFH-1 is a compilation of policies, procedures and standards that guide Airmen's actions within the profession of arms.

Since February 2012, the primary Weighted Airman Promotion System study reference material – formerly the PDG and now the AFH-1 - has been available online in a variety of electronic formats through AETC's Airman Advancement Division websites. The handbook has not been printed or distributed since October 2015.

For more information, please contact the newly assigned AFH 1 program manager under AETC's Airman Advancement Division, email pdg@us.af.mil.



Courtesy photo

Air Force officials have released the 2017 Air Force Handbook 1, Airman and the Enlisted Promotions Study Guides.

Airmen complete Hurricane Maria mission, return from Puerto Rico

Lt. Col. Dale Greer

123rd Airlift Wing

Public Affairs

LOUISVILLE, Ky. — Thirty-five members of the Kentucky Air National Guard's 123rd Contingency Response Group returned Oct. 17, 2017, completing a three-week deployment to San Juan, Puerto Rico, where they processed more than 7.2 million pounds of humanitarian aid for recovery operations following Hurricane Maria.

The Airmen, who arrived in San Juan Sept. 23, were among the first U.S. military forces to deploy for the relief effort, said Col. Bruce Bancroft, 123rd CRG commander. They established an aerial port of debarkation at Luis Munoz Marin International Airport upon landing and began accepting military aircraft the next day, eventually downloading food, water, electric generators and other essential cargo from 268 aircraft.

The Airmen also processed 3,887 passengers arriving from a variety of agencies, including the Department of Defense and the Federal Emergency Management Agency, to assist with relief efforts.

While the Kentucky Airmen are now home, the cargo mission will continue for the foreseeable future, Bancroft said. Primary responsibility for the aerial port has been turned over to the Puerto Rico ANG.

"Standing up this aerial port of debarkation was an extremely important mission for us," Bancroft said. "Like all units in the U.S. military, our group has an important combat role to play, but as National Guardsmen, we also specialize in providing humanitarian aid to the homeland. It has been very gratifying to know that our skills and capabilities are making a difference for the people of Puerto Rico. Now, that mission will be carried forward by the next group of Airmen from the Puerto



U.S. Air National Guard photo by Lt. Col. Dale Greer

More than 30 members of the Kentucky Air National Guard's 123rd Contingency Response Group, augmented by Airmen from the active-duty Air Force and ANG units in multiple states, process relief supplies around the clock at Luis Munoz Marin International Airport in San Juan, Puerto Rico, in the wake of Hurricane Maria Oct. 5, 2017. The unit's Airmen established an aerial port of debarkation upon arrival Sept. 23, and have processed more than 7.2 million pounds of cargo and humanitarian aid for distribution in the first three weeks of the operation.

Rico Air National Guard."

The San Juan operation was the 123rd CRG's second mobilization for hurricane relief this year. The unit also sent 43 Airmen to Texas Aug. 29, where they established an aeromedical evacuation hub in Houston following Hurricane Harvey.

In the past six weeks, the Kentucky ANG has deployed more than 150 Airmen for relief operations following three major storms — Hurricanes Harvey, Irma and Maria. Those Airmen include 18 members of the 123rd Special Tactics Squadron, who rescued 333 residents stranded by flooding in Houston.

Kentucky Air Guardsmen also were instrumental in the evacuation of more than 1,000 U.S. citizens from the Dutch Island of St. Maarten following Irma, providing air traffic control and flying passengers to safety in Puerto Rico aboard two Kentucky C-130 Hercules aircraft.

The Kentucky ANG still has 35 Airmen deployed for hurricane recovery operations, including seven who departed for Puer-

to Rico recently to staff a mobile field kitchen that can serve up to 4,000 hot meals a day. Other Kentucky Air Guardsmen are providing airfield management in the U.S. Virgin Islands, and aircraft maintenance in Savannah, Georgia, where the National Guard Bureau has established a major cargo hub to fly relief supplies from the mainland to the Caribbean.

Kentucky has contributed three of its C-130 aircraft for the Savannah-based operation, and currently has 21 aircrew and support personnel dedicated to the effort.

"This has been an unprecedented hurricane season, with three major back-to-back storms," said Col. David Mounkes, commander of the 123rd Airlift Wing, the Kentucky ANG's main operational unit. "I'm pleased to say that the response of our Airmen has been equally unprecedented. From saving lives in Texas to setting cargo records in Puerto Rico, our Airmen continue to step up for these extremely important missions."

- Keep chocolate and candy wrappers out of your pets' reach
- Place pets in a room with some food and water for the night to keep them from darting out through open doors and to protect them from exposure to lighted candles, loud noises, and lots of people.
- Be sure to check on pets periodically
- Don't cause unnecessary stress or discomfort to pets by dressing them in costumes unless they are extremely receptive to it

Operational Energy Conservation Month

Maj. Robert Reed
48th Flying Training Squadron

Operational energy is energy used by the Air Force that has a direct and immediate impact to the operational mission.

Out of the Department of Defense budget, 48 percent goes to the Air Force and of that 48 percent, we spend 86 percent solely on aviation fuel. At Columbus Air Force Base we use 35,000 gallons of aviation fuel a day. To maintain mission assurance we must also maintain energy assurance. According to the Air Force Energy Plan there are three goals to ensuring mission success: Improve resiliency, optimize demand and assure supply.

Improving resiliency starts with mitigating risks. Factors like shortages, price vola-


tility and disruption due to natural disasters or hostile attacks can affect our resiliency. To mitigate mission impact we can identify single points of failure, identify partnerships to leverage capabilities, and diversify our supply chain.

Optimizing demand is simply leveraging creative thought to decrease use without decreasing mission effectiveness. Examples may include the use of alternative fuels in our aircraft, or modifications to our training requirements to allow for more flexibility. Continuing to raise awareness also fosters an attitude of conservation and innovation from our Airmen.

Assuring supply is the last goal to ensure mission success. Pushing the use of techno-

logical improvements and analyzing near, mid and long-term solutions is essential. Looking to the private sector for solutions enables to Air Force to take advantage of its core competencies and strengths without taking the lead in all aspects of energy conservation.


The bottom line is the Air Force is taking a coordinated approach to finding the sweet spot for energy projects that are cost-competitive, resilient and clean. To be successful, all Airmen must think critically about how we consume energy, be open to new innovations, and change our habits to be more efficient. We will accomplish our goal of sustainable energy by relying on an agile force to adopt new technologies and continue to critically evaluate how we do business.



DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 14TH FLYING TRAINING WING

COLUMBUS AIR FORCE BASE MISSISSIPPI



12 October 2017

MEMORANDUM FOR 14 FTW GROUP AND SQUADRON COMMANDERS

FROM: 14 FTW/CC

SUBJECT: 2017 Air Force Energy Action Month

1. The President has designated October as the Energy Action Month. The purpose is to highlight the importance of operational energy awareness and focus on diligently managing resources to ensure enduring mission success. Operational energy is defined as, "the energy used by the Air Force that has a direct and immediate impact to missions."

2. During the month of October I ask that you engage with your Airmen and empower them to challenge the norm and get creative to develop new ideas for energy savings. Additionally, please distribute the brochure that is attached as a way to both get people talking about energy conservation and see what initiatives are currently being explored. The goal is to raise awareness in order to leverage Airmen's innovation combined with changing technologies and industry standards in order to use our resources most effectively. We need to raise awareness and get Airmen to commit to making energy conscious decisions at work and at home.


3. For more information please see: <http://www.safie.hq.af.mil/OpEnergy>. My POC is Maj Robert Reed; he can be reached at 742-2329 or 14msg.cag@us.af.mil.

DOUGLAS C. GOSNEY, Colonel, USAF

Commander


Attachment:

SAF/IE Operational Energy Brochure



DEPARTMENT OF THE AIR FORCE

WASHINGTON, DC 20330-1000



SEP 6 7 2017

OFFICE OF THE ASSISTANT SECRETARY

MEMORANDUM FOR MAJCOM/CVs

FROM: SAF/IE
1665 Air Force Pentagon
Washington DC 20330-1665

SUBJECT: 2017 Air Force Energy Action Month

October is Energy Action Month. Throughout the month, we will highlight across the Air Force the critical impact energy has on our ability to perform our mission. In this second year of our three-year "Protect the Power" campaign, we will use Energy Action Month to call on members of the Air Force community to commit to making energy-conscious decisions at work and at home, in order to enhance resilience and mission readiness.

In support of this year's Energy Action Month, I ask you to help with the following:

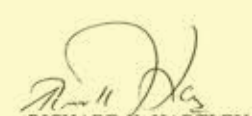
a. Have your wing and group commanders take at least one action or participate in at least one event focused on the impact of energy on their respective missions, such as a Commander's Call, an article in the base newspaper, or participation in an organized social media discussion, such as a Facebook townhall or Twitter chat.

b. Identify MAJCOM and wing-level Operational Energy Champions, and provide the names and contact information to the points of contact identified below by 22 September 2017.

We are the most successful when Airmen hear about the importance of energy from both leaders and peers. In addition to the efforts of the base energy manager advocating installation energy resiliency, the Air Force aims to promote operational energy through an Operational Energy Champions program. The role of the Operational Energy Champion is to sponsor unit-level operational energy awareness by engaging directly with their operational and maintenance peers and leaders throughout the month.

My office will facilitate this effort by providing overall messaging, templates, and other materials. They will be made available at: <http://www.safie.hq.af.mil/Programs/Energy/Action-Month/>. Specific requirements will be sent out once champions are identified. The POCs for Energy Action Month are Mr. Richard Brill for Installation Energy (richard.b.brill2.ctr@mail.mil, DSN 227-1018), and Lt Col Breanna Lankford for Operational Energy (brcanna.k.lankford.mil@mail.mil, DSN 227-1207).

Thank you for your assistance and endorsement as we work to achieve the Air Force's energy vision of Mission Assurance through Energy Assurance.



RICHARD K. HARTLEY
Acting Assistant Secretary
(Installations, Environment & Energy)

BREAKING BARRIERS...SINCE 1947

Air Force Readiness Programs

(Editor's note: All activities are offered at the Airman & Family Readiness Center unless otherwise specified. For more information about any of the activities listed, call 434-2790.)

Pre-separation Counseling

This counseling is a mandatory briefing for personnel separating or retiring, to be completed at least 90 days prior to separation. It may be completed up to 12 months prior to separation or retirement. The counseling is held daily at 8:30 a.m. It takes approximately 60 minutes. Please contact A&FRC, 434-2790 for more information.

Pre and Post Deployment Tour Brief

These briefings are mandatory for active-duty personnel who are either deploying or returning from deployment or a remote tour. The briefings are held daily at the Airman and Family Readiness Center. Pre-deployment is at 9:30 a.m., and post-deployment is at 1:30 p.m. For more information, please contact A&FRC, 434-2839/434-2790 for more information.

Survivor-Benefit Plan

Are you nearing military retirement? The one decision you will need to make before you retire involves participation in the Survivor Benefit Plan. As with all good decision-making, you need to know the facts before you can make a sound decision, and be wary of anyone telling you they can offer you a better deal. Always get the true facts about the SBP before making up your mind. Additional details are available by calling Jamey Coleman, SBP counselor, at (662) 434-2720.

Military and Family Life Counselor Program

The Military and Family Life Counselor Program counselors provide a non-medical counseling to help Airmen, (both single and married) their spouses and other family members to cope with stressful situations created by deployments, reintegration, and life challenges, such as marital issues, parenting, career stress and anger. All counselors are licensed mental health providers. Counselors can meet either on or off base. There is no charge for services and appointments can usually be made within one to two days. To contact the MFLC, call 662-364-0504.

Personal Financial Resources

Need help with financial matters? Want to make the most of your money? The Per-

Magician performs at Columbus AFB

U.S. Air Force photo by Airman 1st Class Keith Holcomb
Benjamin Young, magician, performs during a show Oct. 13, 2017, on Columbus Air Force Base, Mississippi. Young is an opening magician and assistant for Jason Michaels, illusionist and magician, and they've been performing on military bases around the world.

sonal Financial Counselor can help you and your family: manage finances; resolve financial problems; and reach long-term goals such as education, buying a home and planning for retirement. PFC services are no cost, private and confidential. For more information, call the PFC at (662) 998-0411 or 434-2790, or email PFC.Columbus.USAF@zeiders.com; the PFC is also located in the Airman and Family Readiness Center.

Volunteer Opportunities

If you are interested in volunteering, please contact the Airman and Family Readiness Center. They have volunteer opportunities located throughout the base for a one-time event, special events or on a continual basis. Volunteers are needed on base at the Youth Center, Child Development Center, Library, Golf Course, Medical Clinic, Chapel, Airman's Attic, Thrift Store, the Retiree Activities office and many others. For more information, please call A&FRC at 434-2790.

Air Force Recovery Coordination Program

The Recovery Coordination Program streamlines and improves the way care and support is delivered to wounded, ill and injured Airmen and their families. The RCP provides the support of a Recovery Care Coordinator who guides the Airman and family along their road to recovery. Those eligible include wounded, ill and injured Airmen who: have a serious illness or injury, are unlikely to return to duty within a specified amount of time or may be medically separated from the military. Additional details are available by contacting the Airman and Family Readiness Center.

Relocation Assistance

A Relocation Assistance workshop on programs, services and resources available through the Airman & Family Readiness Center is held every Wednesday from 9-10 a.m. at the A&FRC. Topics of discussion include pre-

paring for a move, environment/cultural issues or needs, adaptation and community awareness. The POC is A&FRC, 434-2790.

Employment Workshop

An employment workshop on local and base employment opportunities is held every Wednesday at 1 p.m., Airman & Family Readiness Center. The POC is A&FRC, 434-2790.

Sponsorship Training

An electronic version of sponsorship training called eSponsorship Application & Training (eSAT) is now available. It can be found on the Military INSTALLATIONS homepage militaryinstallations.dod.mil, under "Are You A Sponsor?"

Chapel Schedule

Whether you are new to Columbus Air Force Base or have been around for a while, our parish communities welcome you to join us as we worship, fellowship, and encourage one another. For more information, please call 434-2500.

Catholic Community


Sundays:
3:45 p.m. – Religious Education, grades K-9 (Chapel Annex) Start date TBA
4 p.m. – Choir Practice (Chapel Sanctuary)
4 p.m. – Confession (or by appointment)
5 p.m. – Mass
Fellowship Dinner after Mass on 1st and 3rd Sundays of every month
Tuesdays:
11:30 a.m. – Daily Mass
Wednesdays:
11:30-12:30 p.m. – Adoration

Protestant Community

Sundays:
9 a.m. – Adult Sunday School (Chapel Library)
10:45 a.m. – Traditional Worship Service
Wednesdays:
4 p.m. - Music Rehearsal
Thursdays:
5:30 p.m. – Student Pilot Bible Study (Chapel Library)

Ecumenical services


Wednesdays:
6 p.m. – AWANA, a religious education program for children ages three years old to 6th grade
6 p.m. – Adult Bible study on the Gospel of John
6 p.m. – Youth Group



Visit www.columbus.af.mil to learn about

Columbus AFB agencies

and other important information.



Columbus Air Force Base Article 15s

A staff sergeant received reduction to senior airman and a reprimand for assault consummated by a battery upon a child under the age of 16.

A senior airman received a reduction to airman first class and a reprimand for drunken driving.

A senior airman received 15 days restriction to base and reprimand for negligent dereliction in the performance of his duties.

An airman first class received a reduction to airman and a reprimand for wrongfully using marijuana.

Luke AFB	Altus AFB	Laughlin AFB
2 Courts-Martial	1 Courts-Martial	0 Courts-Martial
12 Article 15s	9 Article 15s	2 Article 15s
Vance AFB	Columbus AFB	19 AF Totals
1 Court-Martial	0 Courts-Martial	4 Courts-Martial
3 Article 15s	4 Article 15s	30 Article 15s

October is National Disability Month

**14th Flying Training Wing
Equal Opportunity Office**

It's October, the weather is getting cooler, pump-kin spice lattes are back, and Halloween movies are playing all month long. Can it get any better? Well before you turn on your Netflix show, take a few minutes to sip on your latte and find out why October is also National Disability Employment Awareness Month.

On Aug. 11, 1945, the Presidential Proclamation 2664 was signed to declare the first week in October as "National Employ the Physically Handicapped Week" to encourage the hiring of the physically handicapped so they can contribute to the work-force. Two years later, President Truman assembled a committee to promote this week and convince the public that disabled Americans belong in the workplace. In 1962, "physically" was taken out of the week's name to acknowledge that all Americans with different types of disabilities should be afforded the chance to employment. Congress expanded the week to a month long observance in 1988, and changed the name to what we know it as now, "National Disability Employment Awareness Month."

Go on, take another sip of your latte, and let's see how this affects all employees and employers, like the Department of Defense. Disabilities can affect anyone, regardless of race, sex, age, socioeconomic status, or any other personal characteristic.

As a nation, it is everyone's responsibility to ensure equality for individuals with disabilities, especially in the workforce. Many programs have been established to assist disabled employees, one of which is the Computer/ Electronic Accommodations Program. CAP provides assistive technology to accommodate workers with disabilities. This technology allows employees with disabilities to communicate better with their team and customers, and accomplish tasks that were unable or difficult to perform beforehand. This is just one of many examples of how reasonably accommodating individuals with disabilities assists not only those employees, but the entire work environment.

Reasonable accommodation provides qualified applicants and employees to equal rights and privileges to employment as those without disabilities. The DOD is the nation's largest employer, therefore it plays a vital role in disability awareness. It fosters an environment that embraces inclusion and diversity by "walking the walking", employing over 247,608 workers with disabilities. These employees contribute significantly every single day and can be your go to coworker when you need help, or the supervisor that mentors you. Hopefully now when you think of October and its pumpkin spiced treats, you also think of the disabled men and women that contribute to our entire nation's workforce.

(Editor's note: This article contains information from www.deomi.org and www.defense.gov.)

BLAZE Hangar Tails: T-6A Texan II

Mission
The T-6A Texan II is a single-engine, two-seat primary trainer designed to train Primary Pilot Training, or PPT, students in basic flying skills common to U.S. Air Force pilots.

Background
Before being formally named in 1997, the T-6A was identified in a 1989 Department of Defense Trainer Aircraft Master Plan as the aircraft portion of the Primary Aircraft Training System, or PATS. The system includes a suite of simulators, training devices and a training integration management system.

On Feb. 5, 1996, Raytheon was awarded the PATS acquisition and support contracts. The first operational T-6A arrived at Randolph Air Force Base, Texas, in May 2000. The full rate production contract was awarded in December 2001. Air Force production of the aircraft was completed in 2010.

The T-6A is used to train PPT students, providing the basic skills necessary to progress to one of three training tracks: the Air Force fighter-bomber, the Air Force airlift-tanker, the Air Force turboprop track and the Air Force helicopter track.

Instructor pilot training in the T-6A began at Randolph AFB in 2000. PPT began in October 2001 at Moody AFB, Georgia, and is currently at Columbus AFB, Mississippi; Vance AFB, Oklahoma; and Laughlin and Sheppard AFBs in Texas.

General Characteristics
Primary Function: Entry-level trainer in joint primary pilot training

Builder: Raytheon Aircraft Co.
Powerplant: 1,100 horsepower Pratt & Whitney Canada PT6A-68 turbo-prop engine
Wingspan: 33.5 feet (10.19 meters)
Length: 33.4 feet (10.16 meters)
Height: 10.7 feet (3.23 meters)
Speed: 320 miles per hour
Standard Basic Empty Weight: 6,500 pounds (2,955 kilograms)
Ceiling: 31,000 feet (9448.8 meters)
Range: 900 nautical miles (1,667 kilometers)
Crew: Two, student pilot and instructor pilot
Armament: None
Date Deployed: May 2000
Unit Cost: \$4.272 million
Inventory: Active force, 446



U.S. Air Force photo by Airman 1st Class Keith Holcomb
An instructor pilot and student pilot taxi to after a flight Sept. 28, 2017, on Columbus Air Force Base, Mississippi. The T-6A Texan II is a single-engine, two-seat primary trainer designed to train Joint Primary Pilot Training, or JPPT, students in basic flying skills common to U.S. Air Force and Navy pilots. Student pilots must complete training with the T-6 before they moving onto the next phase of training.



U.S. Air Force photo by Staff Sgt. Christopher Gross
Two T-6A Texan IIs take off from Columbus Air Force Base, Mississippi, Sept. 7, 2017. Student pilots in Specialized Undergraduate Pilot Training will learn to fly the T-6A before moving onto the T-38 Talon or T-1A Jayhawk.

VIEWPOINT 37th FTS aids disaster relief around the world

Capt. Andrew Richter
37th Flying Training Squadron Flight Commander

With all of the natural disasters that have befallen the world over the last couple years, it is time to acknowledge one of the many missions the Air Force executes very well: the humanitarian assistance mission.

In light of the recent Hurricanes Irma, Harvey and Maria, a renewed interest has sparked in the public eye. In almost any given year the Air Force is called upon numerous times across the world to assist those in need. These include instances such as providing assistance to the Iraqi Yazidis stranded on Mount Sinjar in 2014 by airdropping food and water, and airlifting relief cargo to aid our Japanese partners following the devastating Tsunami in 2011.

Many of the instructor pilots currently assigned to the 37th Flying Training Squadron have already played an integral role in humanitarian assistance. Capt. Taylor Coffey, a Columbus Air Force Base Specialized Undergraduate Pilot

Training Class 12-03 graduate, delivered federal aid to staging locations in the northeast following Hurricane Sandy as a C-17 Globemaster III pilot. Capt. Ryan Fortney flew C-17 missions delivering Contingency Response elements and medical supplies to support Operation Unified Assistance during the Ebola relief effort in 2014. Maj. Seth Paulsen, a graduate from Columbus AFB SUPT Class 08-03 deployed with the Contingency Response Group to aid the Philippines following Typhoon Haiyan in 2013. Finally, Capt. Ryan Lutz flew C-17 relief missions to Nepal in 2015 following the devastating earthquake.

As a graduate from Columbus AFB SUPT Class 11-06 and a young C-130J Super Hercules Aircraft Commander, I was humbled to be able to take part in the Ebola relief missions transporting doctors, medics, and shelter to the hard hit areas of Liberia. This mission would prove to be one of the most rewarding events I've had the privilege of undertaking thus far. I can personally attest that these types of missions were the culmination of so many years of effort that instructors,

teachers, and mentors had poured into me.

The next time the U.S. government calls on the Air Force to project power through humanitarian assistance, Team BLAZE will undoubtedly have a hand in making those missions happen. As a pilot producing wing, we fill the cockpits of disaster relief missions with pilots. In a year where the hurricane season has been especially fierce and as we are grieved by the images of suffering, the part we can play now is training that next student well and investing in their mentorship. Likewise, students can play their part by training hard and going that extra mile, recognizing the effort they put into their training as an aviator has a direct effect on future missions.

Whether it is combat or humanitarian relief, Team BLAZE is where the future of the Air Force is being developed. Each and every member of Columbus AFB contributes to this vital mission of humanitarian assistance by supporting the environment required to produce pilots. Contributing to the humanitarian mission is a cause that makes it easy to go to work each day.



**Arrive alive,
Don't drink
and drive.**

**Drive Smart, Save Lives
Don't text while driving**





U.S. Air Force photo by Airman 1st Class Keith Holcomb

The 37th Flying Training Squadron is where half of the student pilots from Columbus Air Force Base, Mississippi, learn the basics of military aviation. Seated with an instructor, each student receives about 81 hours of training in the T-6 Texan II trainer aircraft. Students learn basic aircraft characteristics and control; takeoff and landing techniques; aerobatics; and night, instrument and formation flying.



U.S. Air Force photo by Airman 1st Class Keith Holcomb

Second Lt. Kason Pifer, and Zachary Tarbox, 37th Flying Training Squadron student pilots, help 2nd Lt. Rachael Grant, 37th FTS student pilot, into a pool Oct. 13, 2017, on Columbus Air Force Base, Mississippi. Student pilots swim in their squadron's pool when the student successfully completes their first solo-flight.

37th FTS teaches aviation basics to new pilots

Airman 1st Class Keith Holcomb
14th Flying Training Wing Public Affairs

The 37th Flying Training Squadron on Columbus Air Force Base, Mississippi, is where roughly 50 percent of Columbus AFB student pilots will learn to fly the T-6 Texan II trainer aircraft.

Instructor pilots work constantly with students on a daily basis, helping them study and advance to their next phase of training.

"Day to day, I fly and interact with the students constantly," said 1st Lt. Michael Crampton, 37th FTS instructor pilot. "It's rewarding, you get a bunch of guys with various backgrounds and it is rewarding to see the whole class through and see how they're growing as pilots."

Student pilots must balance their time wisely as they're required to attend briefings, perform flights and flight simulations along with their studying.

"Flightline IPs fly at least two a day if we are able to; our first priority is with our students and after that we'll help other classes out," Crampton said.

With a high operations tempo at the 37th FTS, instructor pilots are consistently outnumbered and need other pilots from the squadron to fly and brief students.

"My initial job is to facilitate what the squadron commander and director of operations needs for the squadron to function from an administrative perspective so they can continue handling the big picture," said Capt. Jonathan Skinner, 37th FTS Assistant Director of Operations. "We fly about 96 students a day so I can help with the students' check rides or other flights if we are short on instructor pilots."

With the help of other pilots on staff, some flights are flown with pilots from around the entire squadron, and almost every pilot is able to aide in the training of students directly. Teamwork is a key ingredient for student pilots to pass through their Specialized Undergraduate Pilot Training and is an invaluable tool for them to be successful as a pilot in the U.S. Air Force.

With instructor pilots showing students how they should pull together to create team cohesion, understanding and success, students will hopefully carry on that sense of teamwork as they go through their career.

"They fly and teach, and they really are very patient. The instructors will explain in very different ways hundreds of times to help us out, especially the international pilots," said Capt.



U.S. Air Force photo by Airman 1st Class Keith Holcomb

Second Lt. William Groff, 37th Flying Training Wing student pilot, prepares for a solo flight Oct. 11, 2017, on Columbus Air Force Base, Mississippi. Students complete solo flights in order to progress through Specialized Undergraduate Pilot Training; however students will fly with an instructor pilot a majority of their flights.

Yasir Alobaidi, 37th Flying Training Squadron student pilot. "It's even harder with the language issue, but they really work hard to get us to where we need to be."

Every IP started where the students are today, working day in and day out to emulate their own instructors.

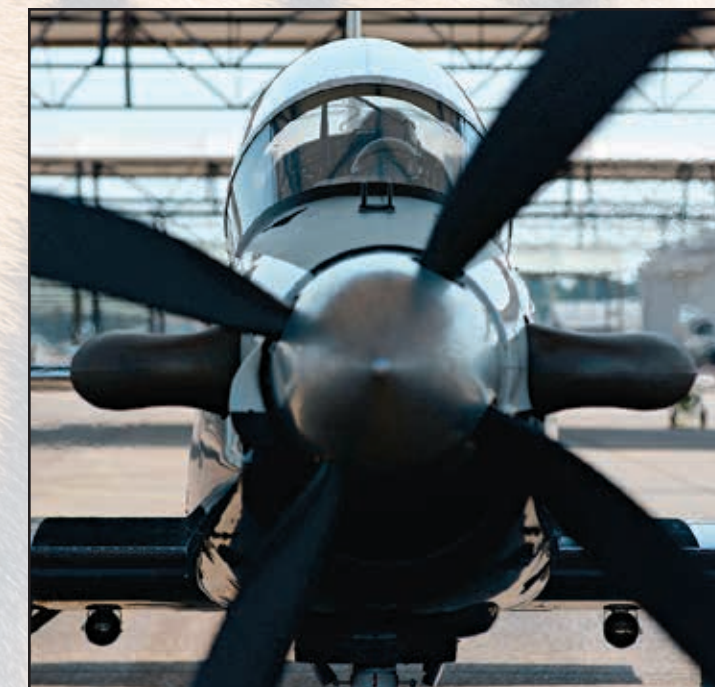
"Any one of us would be more than happy to be like them," Alobaidi said. "They have so much knowledge and experience and we learn so much from each flight, I know we all look up to them."

"Day to day, I fly and interact with the students constantly," said 1st Lt. Michael Crampton, 37th FTS instructor pilot.



U.S. Air Force photo by Melissa Doublin

The 37th Flying Training Squadron on Columbus Air Force Base, Mississippi, is where roughly 50 percent of Columbus AFB student pilots will learn to fly the T-6A Texan II trainer aircraft.



U.S. Air Force photo by Airman 1st Class Keith Holcomb

An instructor pilot and student pilot from the 37th Flying Training Squadron prepare for a flight Sept. 28, 2017, on Columbus Air Force Base, Mississippi. Instructor pilots fly with the student pilots on almost every flight to provide immediate feedback and help with any grading and teaching the students may need. An IP can fly up to three times in one day, with each flight reaching almost three hours of total flight-time.