

TCC donates 3D printers to Phoenix Spark

Senior Airman Amy Younger 60TH AIR MOBILITY WING PUBLIC AFFAIRS

The Travis Community Consortium donated a shipment of 16 3D printers to the Phoenix Spark Lab at Travis Air Force Base, California.

Phoenix Spark will use the printers primarily to manufacture face masks and train Airmen on 3D printing and modeling.

The printers debuted in a presentation for funding contributors from the Fairfield Community Services Foundation, Travis Credit Union and Federal Home Loan Bank of San Francisco on Sept. 30. They are valued at \$16,700.

The donation came amid a rising need for personal protective equipment for the base's medical personnel earlier in the year, after a steep increase in COVID-19 cases within the surrounding counties caused a shortage in face masks. The ongoing PPE shortage has been particularly challenging for the installation's hospital, David Grant USAF Medical Center.

"DGMC is one of the largest military hospitals in the nation," said Sandy Person, TCC Industry Engagement officer. "As with most other hospitals and medical treatment facilities in the U.S., they began to run drastically low on PPE, such as face shields and face masks."

Since February, after quarantining passengers from the Diamond Princess and Grand Princess Cruise Ships, who had been exposed to COVID-19, Travis helped combat the pandemic from the beginning—even repatriating Airmen and civilians with help from Travis' aeromedical evacuation capabilities.

Tailwind



U.S. Air Force photo/Senior Airman Amy Younge

From left to right, John Evalle, Travis Credit Union military affairs officer, Sean Quinn, City of Fairfield Community Services Foundation board member, and Len Augustine, Travis Community Consortium chairman, inspect a 3D-printed face shield Sept. 30 in the Phoenix Spark lab at Travis Air Force Base. California. Evalle. Ouinn and Augustine represent organizations that provided funding to the Travis Community Consortium, which purchased the donated 3D printers.

stant concern.

"That's why our community stepped While the Air Force has adjusted well in to donate these printers along with by adopting new and innovative ways to the supplies they need," she said. "The fulfill their daily mission sets, Person communities and the installations that

other. We move forward by working together."

For Staff Sgt. Max Estrada, Travis Phoenix Spark Lab noncommissioned

said, resource management is a con- are thriving in these uncertain times officer in charge, the additional printare those that know and trust one an- ers represented not only a more efficient means of protecting medical workers and other personnel, but a more

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On the cover

U.S. Airmen assigned to the 22nd Airlift Squadron guide a pallet to be unloaded from a C-5M Super Galaxy Sept. 18 at La Aurora International Airport, Guatemala City.

U.S. Air Force photo/Senior Airman Jonathon Carnell







the U.S. Air Force Travis AFB, Calif. | 60th Air Mobility Wing

Air Force

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Visit the Travis public web site at http://www.travis. af.mil. Read the Tailwind online at http://tailwind.dailv

Correspondence can be sent to the 60th Air Mobili-

Those on base wishing to receive home delivery of the

David Grant USAF Medical Center redesignates multiple units



U.S. Air Force photos/Heide Couch

1) U.S. Air Force Airman 1st Class Azriele **Tingle, 60th Operational Medical Readiness Squadron Bioenvironmental Engineering Flight** technician. holds the American flag during a unit redesignation ceremony Sept. 28 at **David Grant USAF Medical Center, Travis Air** Force Base, California. The 60th Aerospace Medicine Squadron was redesignated to the 60th Operational Medical Readiness Squadron and the 60th Medical Operations Squadron was redesignated to the 60th Healthcare Operations Squadron. 2) U.S. Airmen participate in a unit redesignation ceremony Sept. 28 at DGMC. 3) U.S. Air Force Col. Gwendolyn Foster, 60th Medical Group commander, delivers remarks during a unit redesignation ceremony Sept. 28 at DGMC.





WARRIOR OF THE WEEK

Name: Lilv Glenn-Hurtado.

60th Security Forces Squadron.

Duty title: Unit program coordinator, section eader.

Hometown: Ninton, California. Time in service: Five years.

What are your goals? To graduate with a bachelor's degree by 2021 and promote in the civilian sector.

What are your hobbies? Spending time with my family, hiking, baking, giving back to the local community.

Family: Two sons. Damian and Xavier.

What is your greatest

achievement?

Juggling a professional career, being a single mother, a full-time student and an ambassador for the Winton School District and local community

OCTOBER 9, 2020

Exercise trains to respond to active-shooter scenario



U.S. Air Force photo/Heide Couc

U.S. Air Force Special Agent Michael Tinnell, Air Force Office of Special Investigations, Detachment 303 special agent, plays the role of a perpetrator during a base exercise Sept. 24 at Travis Air Force Base, California. The exercise was designed to evaluate the training, readiness and capability of Travis first responders in order to effectively respond to active shooter threats to the installation.

CHPS to host virtual classes

Civilian Health Promotion Services

Mark your calendars: Civlian Health Promotion Services is offering its first ever virtual class series via Commercial Virtual Remote Microsoft Teams.

Come learn about the importance of physical activity and nutrition in CHPS virtual class series. You will gain tips and tricks for creating and maintaining healthy habits. Join CHPS from at 11 a.m. to noon each Thursday via CVR MS Teams.

The remaining courses are as follows:

• Oct. 15: Get your plate in Shape.

• Oct. 22: Exercise progression.

• Oct. 29: Smart substitutions

• Nov. 5: Sticking to your goals.

To join the courses, visit the CVR Microsoft Teams Link at https://bit.ly/2GIkOuX.

For more information, contact Elisa Meggs, Travis CHPS coordinator, by phone at 707-424-2477 or email at elisa.k.meggs.ctr@mail.mil.



Senior Airman Christian Conrad

made it worse.

Subaru Legacy.

swirled around him.

Screeeeeeeee! canal that ran adjacent to the highway.

SNCOA graduates first Space Force members

2nd Lt. Katie DuBois

AIR UNIVERSITY PUBLIC AFFAIRS

MAXWELL AIR FORCE BASE, Ala. — Air University's Senior Noncommissioned Officer Academy on Sept. 25 graduated its first Space Force members. Colorado.

Master Sgt. Jeffrey Roberts and Master Sgt. Robert Yarnes are two of the more than 2,000 organic space operators in officer and enlisted Air Force specialty codes who began transferring Sept. 1, but the first from the SNCOA.

dent of the National Security Space Institute at Peterson-Schriever Garrison, Colorado, and Yarnes is the current division manager at Joint Task Force–Space

Roberts has always dreamed of supalways the original intent for joining the military," Roberts said. "When asked to

Roberts is currently the superinten- mission and to be part of something fantastic at the same time. It is a fresh start where the influence of a few will result in the betterment of the many."

Yarnes on the other hand was rather Defense at Schriever Air Force Base, surprised about the opportunity. "I did not even imagine that there would be a U.S. Space Force, much less that I would porting operations in space. "Space was be one of the first few thousand members," Yarnes said. "It is an incredible honor to help stand up the new service join the United States Space Force, my and work alongside so many highly qualdecision was based on continuing the ified professionals. I do feel truly blessed

that I get to be a part of it."

SNCOA aims to inspire senior enlisted leader intellectual, emotional and strategic growth while also developing cutting-edge, joint warfighters to dominate in any battle domain — including space

"The SNCOA does a great job preparing you to lead enlisted, communicate with leadership and to develop military attributes. These are the learning outcomes of the SNCOA and it is important



U.S. Air Force photo/Senior Airman Christian Conrac

U.S. Air Force Senior Airman Max Brunwasser, 660th Aircraft Maintenance Squadron communication navigation journeyman, poses for a photo Oct. 6 near Highway 113 in Dixon, California. Brunwasser saved the life of a local woman when her car careened off the highway and into an irrigation canal Sept. 8.

Travis Airman saves life of local motorist

60TH AIR MOBILITY WING PUBLIC AFFAIRS

The lack of streetlights only

Senior Airman Max Brunwasser, 660th Aircraft Maintenance Squadron communications/navigation journeyman, was on his way to work in the early hours of Sept. 8, straddling the dark, winding nar-

That morning, the wind was pane of his driver-side window and his steering became erratic as he fought to compensate against the violent gusts that

Suddenly, the car ahead of Brunwasser lost control atop the road's rough surface, flipping over and into the irrigation

the shoulder," Brunwasser said. "My one thought was, 'I need to make sure everyone's okay.' I sprinted over and jumped in."

The water reached up to his waist. Even in the dense, weathered fabric of his military uniform, Brunwasser felt the cold rush of water reach up his nerves, stealing his breath for a moment while he waded closer rows of Highway 113 in his to the vehicle, his heart racing all the while.

"The car was upside down. strong. Brunwasser could hear so I figured there might've been it battering against the thin a risk of drowning," Brunwasser said. "I got closer and I was right – the driver was in probably a good three or four feet of water

The driver was unresponsive to Brunwasser's offers for aid as the vehicle was filling with water by the minute.

"I needed to get her out of her seatbelt – out of her seat," said Brunwasser, a three-year veteran of the Air Force. "I was able

"I immediately veered off to to free her, but she was still disoriented, maybe even in shock. I kept asking her 'Is there anyone else inside,' but I wasn't able to get a response. I went back into the canal, but didn't find anyone. By the time I got back to her after all my searching, she was back to talking."

> It was the thought of others that initially compelled Brunwasser's line of questioning.

"Even though I checked, I wanted to make sure," Brunwasser said. "Was there anyone else,' I asked. 'Were you the only one?' They were the type of questions you hoped only had one answer."

Thankfully, Brunwasser hoped right. "No" and "yes," respectively, were her answers, though she was limited in her ability to speak English.

"I know some Spanish, but it's not something I'm about to write on a resume," Brunwasser laughed. "I tried my best,

See SAVES LIFE Page 15

Store-brand products' price cut in promotion

Kevin L. Robinson

DEFENSE COMMISSARY AGENCY PUBLIC AFFAIRS SPECIALIST

than 200 commissary store brands will be available at savings up to 20 percent during one of the Defense Commissary Agency's largest ever private label promotions from Oct. 12-25.

some of our leading private label products in several categories put together in a unique sales promotion," said Tracie Russ, the agency's sales director. "This sale brings together the best of all worlds – quality products at deeper savings, video recipes and more."

Customers worldwide can expect to see commissary store brand products from six categories: breakfast, snacks, dinner, dessert, coffee and household products. The commissary website, www.commissaries.com, will also have three video recipes complete with a downloadable shopping list and links to each of the products on sale.

Working through supply

chain challenges inherent with the COVID-19 outbreak. DeCA and its private label supplier SpartanNash man-FORT LEE, Va. — More aged to find the right mix of products for the October promotion, said Jennifer Ferrell, private label program manager.

"This is without a doubt one of our biggest commissary store brand promotions "Our customers will see ever," Ferrell said. "We're excited to offer our customers supporting recipes on our website and on our social media to help add some spice to this deal."

Since being introduced in the spring of 2017, DeCA has added nearly 1,000 commissary brand items to store shelves, with more coming in February 2021. With an overall commissary inventory of about 26,000 items, store brands make up about 4 percent of that total.

Commissary store brands are sold under seven names: Freedom's Choice (food items) and HomeBase (nonfood items); along with Top-Care (health and beauty), Full Circle Market (natural and

See PROMOTION Page 12



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OCTOBER 9, 2020

Digital copy of B-1 to help maintenance

Brian Brackens AIR FORCE LIFE CYCLE MANAGEMENT CENTER PUBLIC AFFAIRS

WICHITA, Kan. — With a top speed of 900 mph, a payload capacity of 75,000 pounds, and numerous successful operations over the past 30-plus years, the B-1B Lancer is arguably one of the most lethal aircraft in the U.S. Air Force inventory.

In an effort to keep the aircraft flying and operational, the B-1 Program Office is sponsoring an initiative with Wichita State University's National Institute of Aviation Research to create a virtual or digital twin of the bomber, which will help identify maintenance and structural issues with the aircraft before they occur.

"Right now, we are in a very reactive state when the B-1 has an issue," said Lt. Col. Joseph Lay, B-1 Engineering Branch material leader. "For example, if we find a crack on the (B-1) fleet, we then have to go and develop the repair, which isn't the way you want to be. You want to already have the repair on the shelf, so that when or AMARG out at Davis-Monthan Air you need it, it's there. The digital twin will help us get to that point."



U.S. Air Force photo/Staff Sgt. Clavton Cupit

A U.S. Air Force B-1B Lancer bomber and a Qatari Mirage 2000 fly in formation Feb. 19, 2019, during Joint Air Defense Exercise 19-01.

B-1 that was pulled from the Bone Yard trucks for the 1,000-mile drive to Wichofficially known as the 309th Aerospace ita. Maintenance and Regeneration Group Force Base, Arizona. The aircraft, which was manufactured in 1985 and last oper- craft down to the nuts and bolts and piec-Assisting in the effort in Wichita, is a ational in 2002, was loaded onto flatbed es of skin.

Currently, the team at NIAR are in the process of disassembling, inspecting and scanning every part of the air-

"Through the scanning process, we will discover all the places that saw structural failure or damage. It will create a living medical record for the B-1," Lay said. "Then we will be able to apply data from aircraft in the field to help us predict areas that are more likely to have structural issues. This living virtual model of the B-1's structure will be superimposed with layers of maintenance data, test/inspection results, and analysis tools, which can be integrated over the aircraft's life cvcle."

While it will take six years to disassemble and scan every part of the plan, the work the program office and NIAR team have done since the effort started in April, is already helping the active B-1 fleet.

"We have been scanning the wings, and the wing scans have been helping us understand how to build new repairs for some of the cracks that we have seen in the wings themselves," Lay said. "We are also currently developing inspection techniques and repairs for areas on the upper fuselage and sharing that data back with the OEM. We will use this data to better understand why we have seen fatigue damage in those areas."

See B-1 Page 12

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Air Force selects 1,214 for promotion to O-5

Capt. Carrie Volpe SECRETARY OF THE AIR FORCE PUBLIC AFFAIRS

ARLINGTON, Va. — The results from the first officer promotion board using the six new developmental categories are scheduled to be released Oct. 6.

The 2020 Line of the Air Force lieutenant colonel board, which convened May 4-20, is tion-zone promotion opportunitime in grade.

"We need, and our dedicated Airmen and Space Professionals, deserve a talent management system that is responsive, agile, transparent and focused on the competence and character of an individual's performance," said Lt. Gen. Brian

Kelly, Air Force deputy chief of staff for manpower, personnel and services.

"We've worked really hard over the past few years on improving how we manage our Airmen and Space Professionals to ensure we provide opportunities to maximize and recognize talent while also being responsive to the requirements placed on us within the Nationalso the first board to transition al Defense Strategy. This particaway from below-the-promo- ular board gives us our first-look at how those changes influence ty while assigning line numbers officer promotion results," Kelbased on order of merit versus ly said. "While this is only one data point with upcoming Colonel and Major promotion boards on the horizon, the outcomes appear to have followed our expectations. That said, it is only one data point and we remain confident we did not likely get everything 100% right this first

ing the COVID-19 pandemic.

For example, Airmen have signed "People who used to think they were onto Facebook Live events in increasfine with just, you know, a good book and a comfortable chair are now saying, ingly higher numbers, said Schaick, who's also a chaplain. Participation has 'There's something missing in my life.' been so strong that the Air Force like-Humans are wired as social creatures. ly will continue to incorporate aspects of It's a piece of our DNA." social media into religious outreach ef-As the pandemic stretches into eight forts even after physical distancing remonths and counting, more and more strictions are lifted.

beats IRL-in real life.

EDWARDS AIR FORCE BASE, Calif. — The Air Force Test Center's Test Pilot School is one step closer to standing up the Space Test Fundamentals course.

"Today, here in this building, a board is selecting the first class of space professionals to attend our new space test fundamentals course," said Maj. Gen. Christopher Azzano, AFTC commander, during the Multi-Domain Test Force activation ceremony held Oct. 1 in the Test Pilot School Scobee auditorium. "How fitting that we're talking about a new paradigm for domain-integrated test in the halls of our own test pilot schoolhouse."

deadline.

AIR FORCE

Are you doomscrolling to cope with COVID-19?

Military Health System Communications Office

As the Department of the Air Force's chief of chaplains, Maj. Gen. Steve Schaick has seen firsthand the power of social media to forge connections dur-

But sometimes, Schaick said, nothing

"I think social media is kind of like having plastic plants in the house," he said. "From a distance, they look good. And of course, they don't need to be watered so there's nothing to maintain."

But the rewards of caring for live plants are exponentially more

satisfying, Schaick said. "Social media creates an illusion that we're having the meaningful connections our souls long for. And during this pandemic, even introverts have discovered their inherent need for actual social interactions, and the emptiness that comes with social media alone."

people are turning to social media as a substitute for risky in-person interactions. Facebook and other social media platforms have reported record use, compared to a year ago.

But is that always a good thing?

Social media "allows us to maintain connections with [far-flung] family members, and to reengage with people we may have lost touch with," said



U.S. Army National Guard photo / Staff Sgt. Austin Shaffne

Although a great communication tool with friends and family, service members need to be mindful of the pitfalls of social media.

Nancy Skopp, Ph.D., a research psychologist with the Defense Health Agency's as a creative outlet, as a means of Psychological Health Center of Excellence

"Social media also may serve

See COPE Page 12

Air, Space forces pick students for course

2nd Lt. Christine Saunders

AIR FORCE TEST CENTER PUBLIC AFFAIRS

The U.S. Space Force Test Directorate and Air Force Test Center's Test Pilot School, or TPS, completed the selection board for the inaugural Space Test Fundamentals course. The school received 166 applicants prior to its Sept. 15 application

The board selected students for the three planned courses for 2021 with the initial course scheduled to begin in January 2021. The course is a 13-week. hands-on program designed to train personnel in the fundamentals of space domain test and evaluation.

"This is the most in-depth, hands-on space domain test and evaluation course available." said Col. Sebrina Pabon, TPS commandant and 2006 TPS grad.

Pabon, the first female and second flight test engineer to command the school since its inception in 1944, also mentioned the Space Force needs to be able to test systems to make sure they function as designed and meet the requirements in a safe, secure, efficient and effective manner.

The development of the course is part of the broader U.S. Space Force's effort to increase the trained cadre of test and engineering professionals to meet the demands of the new service.



See COURSE Page 12

Puzzles





ows and columns are divided by black squares into compartments. These need to be filled in with numbers that of numbers with no gaps but can be in any order, eg [4.2.3.5]. Clues in black cells remove that number as an option in that row and column, and are not part of any straight. Glance at the solution to

SUDOKU

No. 511							Easy		
		5				9	8		
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utions will be published here in the next issue

complete a 'straight'. A straight is a set Previous solution - Very Hard 2 4 8 9 1 7 6 5 5 7 3 2 6 9 8 4 7 4 5 3 2

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8 1 6 3 9 5 4 7 3 9 5 8 7 2 1 6 To complete Sudoku, fill the board by entering numbers 1 to 9 such that each row, column and 3x3 box contains every number uniquely

For many strategies, hints and tips, visit www.sudokuwiki.org

If you like Str8ts, Sudoku and other puzzles, check out our books iPhone/iPad Apps and much more on our store at www.str8ts.com

Airmen complete FTAC

TRAVIS



Congratulations to the latest Airmen to complete the First Term Airman Center course. Alphabetically: Airman 1st Class Braydun Burke, 60th Operations Support Squadron; Airman 1st Class Logan Chaplin, 60th Aircraft Maintenance Squadron; Airman 1st Class Logan Crow, 60th OSS; Airman Preston Davis, 660th AMXS; Airman Diego Gomez Aradillas, 60th Medical Operations Squadron; Airman 1s Class Lainey Harmon, 60th Logistics Readiness Squadron; Airman 1st Class Angelo Hunter, 60th LRS; Airman Antony Karanja, 60th MDOS; Airman 1st Class Angel Leal, 60th LRS; Airman Jose Martinez, 60th Operations Support Squadron; Airman Christian Moore, 60th LRS; Airman 1st Class Adam Nord, 660th AMXS; Airman 1st Class Chukwuma Okonkwo, 60th Aerial Port Squadron; Airman 1st Class Gabriel Perez, 660th AMXS; Airman 1st Class Dylan Shaffer, 860th AMXS; Airman 1st Class Sidnie Steber, 60th APS; and Airman 1st Class Kenneth Tran, 60th Medical Diagnostics and Therapeutics Squadron.



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AIR FORCE

Air Force deploys commercial IT capability

K. Houston Waters

Working with the EITaaS office through an Other Transaction Agreement, the Accenture Federal Services team passed commercial internet traffic from the Amazon Web Services and Azure Impact Level 5 cloud environments through the Defense Information Systems Agency's Bound-

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SELF STORAGE

Defense Information System Network from attacks that originate in the cloud environment, performs intrusion detection and prevention assessments, and filters out unauthorized traffic.

"We worked closely with our vendor partner to implement this cutting-edge technology by optimizing a hybrid cloud environment for users across our risk reduction effort bases," said 2nd Lt. Blake Nunes, program manager, Compute and Store, "Our team has great passion for the future of the Air Force and we are inspired to work on such a unique acquisition."

Risk reduction bases include Buckley Air Force Base, Colorado, Offutt Air Force Base, Nebraska, Joint Base Elary Cloud Access Point, or mendorf-Richardson, Alaska, BCAP, and onto the base net- Hurlburt Field, Florida, Cannon Air Force Base, New Mex-The BCAP protects the ico, and Maxwell Air Force

S.

Base/Gunter Annex, Alabama.

This new EITaaS capability processes information at the source of the data, instead of in the cloud. This redirect optimizes cloud migration, reduces latency, and improves overall user experience.

"Our Compute and Store EITaaS effort focuses on the mission readiness of the entire Department of the Air Force," said Arthur G. Hatcher, Jr., Office of the Secretary of the Air Force associate deputy chief information officer. "With base-level applications, data, and infrastructure all being connected and managed 'as a service.' our Airmen are better able to complete their mis-



U.S. Air Force phote

The Enterprise-IT-as-Service team, headquartered at Hanscom Air Force Base, Massachusetts, recently worked to pass commercial internet traffic from cloud environments onto the Air Force network at six bases across the United States. This update allows direct access to the enterprise edge, optimizes cloud migration, reduces latency and improves overall user experience.



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Travis delivers 49,000 pounds of aid to Guatemala



10 TAILWIND

Story and photos by Senior Airman Jonathon Carnell 60TH AIR MOBILITY WING PUBLIC AFFAIRS

A C-5M Super Galaxy aircrew from the 22nd Airlift Squadron, Travis Air Force Base, California, delivered 49,000 pounds of humanitarian aid Sept. 18 to Guatemala.

The C-5M carried 21 pallets holding food, water and school furniture supplies.

"A mission like this is a good demonstration of what the C-5M and the 22nd AS is really capable of," said Capt. Zachary McColgan, 22nd AS pilot and aircraft commander.

The Department of Defense transportation initiative, the Denton Program, collected the contributions to help develop Guatemalan communities, said Mc-Colgan.

The Denton Program receives contributions from U.S. based,

non-governmental organizations who donate humanitarian goods.

"This mission showcases our unique ability to take these large cargo movements and get them to their final destination in a very short time," said McColgan.

The C-SM is capable of traveling 4,900 nautical miles with 120,000 pounds of cargo.

While the Denton Program helps aid countries in need, the mission allowed the 22nd AS aircrew with the opportunity to maintain flight qualifications or obtain them.

McColgan said having a low-risk mission offered the aircrew the opportunity to train new loadmasters.

"This mission really gave me a feel for what we do in the 22nd AS," said Airman 1st Class Dawson Moore, 22nd AS loadmaster student. "Now that my first mission is done, I want to contribute to more missions making a difference for people who need it."



 U.S. Air Force Capt. Alexander Presnell, 22nd Airlift Squadron instructor pilot, lands a C-5M Super Galaxy Sept. 18 at La Aurora International Airport, Guatemala City. 2) U.S. Air Force Staff Sgt. Michael Hailemaskel, 60th Aircraft Maintenance Squadron flying crew chief, watches a C-5M engine start Sept.
 18 in Guatemala City. 3) U.S. Airmen assigned to the 22nd AS guide a pallet to be unloaded from a C-5M Sept. 18 in Guatemala City. 4) U.S. Air Force Staff Sgt. Kevin Robinson, 22nd AS loadmaster, prepares a pallet to be loaded onto a C-5M Sept. 16 at Travis Air Force Base, California. 5) Guatemalan Mission of Love Foundation volunteers stand beside donated cargo Sept. 18 in Guatemala City. 6) U.S. Airmen assigned to the 22nd AS and 60th Aerial Port Squadrons complete unloading pallets off a 60k loader Sept. 16 at Travis.





B-1

From Page 6

The combined work of the program office and NIAR are key to keeping the B-1 in the fight

"Our mission is to keep the B-1 healthy and flying as long as it is required to meet Air Force operational needs," said a whole," Lay said. "As tech-Bill Barnes, B-1 senior pro- nology shows us new capabilgram manager. "The B-1 has been flown hard operationally to support worldwide efforts ties and practices, because this for almost two decades now and it's showing its age in the help us get to 2040." structures areas. So, keeping the aircraft structurally sound is a key tenant in keeping the Cycle Management Center's aircraft available as long as re- Bombers Directorate, which quired. The digital twin sup- is responsible for the sustainports that effort so that we ment and modernization of the can move from being reactive U.S. Air Force's bomber fleet, when we find a structural issue which includes the B-1. B-2 on the fleet to being proactive Spirit and B-52 Stratofortress.







and knowing what's coming." While the B-1 is the first military aircraft to start the process of being completely disassembled, scanned and digitally recreated, it certainly will not be the last.

"This (digital twin) is a revolutionary game changer for the B-1 Program Office and the Department of Defense as ities, the military needs to be quicker to adopt these capabiliwill really support the B-1 and

The B-1 Program Office is a division of the Air Force Life

Cope

From Page 7

self-expression," she said. "It can impart a sense of belonging for some and promote offline interactions."

But Skopp also recognizes the potential harmful effects. She was lead author of a 2018 study of Facebook use among 166 active-duty U.S. service members deployed to Afghanistan. For all of social media's benefits, "It makes it easier for people to make social status comparisons," she said. "This could be a risk factor for anxiety and depression among vulnerable people."

Social media engagements also may lead to aggression and exposure to bullying, she said,

regret about something they moods.' posed online. Skopp also points to another study of social media that was conducted before the pandemic. It found that over in hobbies or topics you realer everyday use of social media resulted in lower feelings of help increase feelings about overall well-being.

"I don't think anyone can said. make a blanket statement that social media is good, or social media is bad," Skopp said. "It's all about how you use it." even in times when in-person interactions are considered too risky, health-wise.

So participating in an interactive event is more beneficial, she said, than "just sitting around and scrolling through social media posts. That can be ical health," Skopp said.

noting a study that found al- a little demoralizing and conmost 25% of Facebook users felt tribute to negative feelings and

Skopp also says there are benefits to using social media to remain active and engaged the course of 10 days, great- ly care about - or have always wanted to explore. "This can positivity for the future," she

> Researchers can't say for certain how much time engaged in social media is too much. But it's important to spend quality time off line. For example, "there's a very large body of literature attesting that a regular exercise regimen is extremely helpful for mood regulation and just overall long-term mental and phys-

Course

From Page 7

"This course coalesces test and space expertise from Test Pilot School, the Space Force, NASA, the Air Force Academy and others," said Col. Nick Hague, U.S. Space Force Test and Evaluation director and NASA astronaut. "It is just the first step in training the cadre of space test professionals we need - space operators, engineers, space acquisition test cesses are domain agnostic."

managers - to deliver on-orbit capabilities for the nation."

The curriculum is based on rent USAF Test Pilot School.

"A lot of the content that will be going into the STF course was cherry-picked directly from what we teach on the air side, from the foundational TPS content," said Dr. Andy Freeborn, a flight test instructor pilot who manages the STF course. "Subjects like statistics, reporting and overarching test pro-

The course is currently broken up into six modules to include: introduction to air vehithe same test and evaluation cle flight test, introduction to foundation that grounds the cur-systems testing, basics of the space environment, a field trip to see U.S. space development. test and operations facilities, a capstone exercise featuring a graduation project, and lastly a course wrap up.

The Air Force Academy is on board to teach a week of instruction specific to astronautical engineering such as orbital mechanics, satellite bus design and space environment.

Promotion

From Page 5

organic food options), Tippy Toes (baby products), Flock's Finest (wild bird food for hopper, tube or platform feeders); Pure Harmony (high quality pet food that provides grain-free options using meat, poultry or fish as the first ingredient; and Wide Awake (ready to drink coffee beverages). Top-Care, Full Circle Market, Tippy Toes, Flock's Finest, Pure Harmony and Wide Awake are not exclusive to DeCA.

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CENTURY 21







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navigation journeyman. Jeans against his car Oct. 6. 2020. near Highway 113 in Dixon. California, Brunwasser was on his way to work at Travis Air Force Base. California, when the car ahead of him lost control, landing



From Page 5

and between her best and mine. we were able to reach an understanding. It eventually came in handy."

Soon enough, first responders showed up after a concerned passerby reported the accident.

"I translated for the first responders and we were able to get the driver the medical attention she needed," Brunwasser said.

True to his work ethic, Brunwasser still showed up to his shift that morning, said Tech Sgt. Michelangelo Cortez, 660th Aircraft Maintenance Squadron communications/navigation noncommissioned officer in charge.

It's true to the Airman he is, Cortez said.

"Leave it to Brunwasser to save a life and still show up Force." for morning roll-call," Cortez chuckled. "The morning he came in, we were like, 'Holy crap, are you okay,' but he just kind of brushed it off. To him, it's always what he can give, never what he can get."

Brunwasser, he explained, wasn't outside his normal tendencies when he pulled over that morning.

"Even on the flight line, it's always (Brunwasser) who's saying, 'How can I help,' 'What else is needed," Cortez said. "Hearing about this was just more confirmation that he's a standup Airman - someone other junior enlisted and ... even other members of the force can look to for inspiration."

But for Brunwasser, what he did wasn't necessarily heroic, but something ingrained into the ethos all military members subscribe to - a concern for others.

"Put any other Airman in the position I was in, and the same thing would've happened," said Brunwasser, who last month was given a line number for staff sergeant, his next rank. "It's less a testament to who I am as a person, and more about the culture we foster in the Air

Now on his way to work, Brunwasser still passes the irrigation canal that he jumped in those weeks ago. He takes stock in his good fortune – that he was there and able to help save his fellow motorist.



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future Air Force requirements.



U.S. Air Force Staff Sgt. Max Estrada, Travis Phoenix Spark lab noncommissioned officer in charge, holds a 3D-printed model of the Air Mobility Command emblem Sept. 30 in the Phoenix Spark lab at Travis Air Force Base, California. Travis' Phoenix Spark lab is the base's innovation hub, which works to find ways to decrease expenditures on the installation by substituting traditional items with 3D-printed counterparts.

sustainable workflow for the once-overwhelmed Phoenix

"I think the whole team was, at one point, working 16hour days, just printing face masks non-stop," Estrada said. "It's surreal to go from working our butts off to make all these masks to now having the ability to run all 16 printers on top of the five we already have, all day and night. I'm excited." It isn't only the immedi-

cited about the new printers, however. Since joining later. the Phoenix Spark team in team's leading expert in 3Dprinting technology, a field he believes has the capacity to improve the quality of life for both Airmen and members of the local community.

Estrada said their goal is to further empower units to be proactive, as well as innovative.

"Instead of Airmen wishing their unit had a tool, ordering it and maybe a year later, finally getting it," Esate mission of producing face trada said. "They can design

masks that has Estrada ex- it themselves and, thanks to these printers, get it a week

"Having these extra print-2017, Estrada has become the ers makes it possible for us to share our technology and expertise with other Airmen and civilians to empower them to make their lives easier."

Phoenix Spark encourages all members of Team Travis interested in 3D print modeling, rapid prototyping and innovative problem-solving to attend their weekly meetings Fridays at noon in Building 181.

For more information, contact the Phoenix Spark lab at 707-424-8920.

can adapt to unknown challenges and act decisively while effectively communicating intent to both our adversaries and allies."

"The biggest concept that was hit every day since the first of class: leaders need to foster innovation and agility in order to enhance lethality," Yarnes said. "This will be critical moving forward for the velop Space Professionals who Space Force, as operating in

such a complex domain such as space demands that the U.S. needs to bring to bear lethal and credible reasons to deter potential adversaries from attacking us in space."

The Space Force, which was established December 20, 2019, will have more than 6,000 uniformed active duty members in organic and common AFSCs when fully manned

0-5

From Page 6

time around. As we conduct subsequent boards, we'll continue to study, evaluate and make any necessary tweaks along the way."

Developmental categories and promotion opportunities

More than 2.600 officers from approximately 40 Air Force specialty codes were considered for promotion using the six new LAF categories: Air Operations and Special Warfare, Combat Support, Force Modernization, Information Warfare, Nuclear and Missile Operations. and Space Operations.

Officials selected 1,045 majors who were in-the-promotionzone (IPZ) for an overall selection rate of 76.1%, and 169 majors who were above-the-promotion-zone (APZ) for a selection rate of 13%. Both selection rates are higher when compared to the previous two years. In 2018 and 2019, IPZ rates were 71.4% and 72%, respectively; the APZ rates were 6.7% and 6.2%, respectively.

"As anticipated, this first board had record-high IPZ and APZ rates primarily associated with removing BPZ opportunity," Kelly said. "This was intentional and was a conscious decision to help provide additional time for officers to gain valuable insight and experience that in some cases was lost when we accelerated people."

The new developmental category structure focused on creating opportunities to tailor officer development and career milestones for the various categories, but also offered the flexibility to adjust promotion opportunity percentages by category to help match requirements. A promotion opportunity is determined by the percentage of IPZ candidates available to be promoted in order to meet Air Force requirements while staving within prescribed legal limits in each officer grade. Previously, a single promotion opportunity was applied to more than 40 AFSC's under the LAF category, but the new system allows the Secretary of the Air Force to apply six unique promotion opportunities across the six developmental closely meeting current and ple," Kelly said.

For example, and based on inventory requirements, the May Air Operations and Special Warfare board, LAF-A, had a promotion opportunity of 90%. Applying a 90% opportunity to the 616 LAF-A majors who were IPZ. vields a total of 555 promotion selects. While 555 was the total available, the LAF-A board also considered officers who were APZ with the board determining the order of merit of the 555 highest scoring records regardless of zone. Any APZ promotion select comes out of the same 555 total and decrements the amount from the IPZ population. Of the 608 officers considered APZ in the LAF-A category, 76 were selected (selection rate of 12.5%), while the remaining 479 promotion selects came from the IPZ population (selection rate of 77.8%)

Additional developmental category promotion breakdowns are below:

• Combat Support, LAF-C, had a promotion opportunity of 85% with a selection rate of 79.9% IPZ and 7.5% APZ.

• Force Modernization, LAF-F, had a promotion opportunity of 85% with a selection rate of 69% IPZ and 14.6% APZ.

 Information Warfare, LAF-I, had a promotion opportunity of 90% with a selection rate of 74.1% IPZ and 15.8% APZ.

• Nuclear and Missile Operations, LAF-N, had a promotion opportunity of 85% with a selection rate of 76.3% IPZ and 11.4% APZ.

• Space Operations, LAF-S, had a promotion opportunity of 90% with a selection rate of 75.4% IPZ and 17.2% APZ.

Merit-based reordering

In addition to using developmental categories, this board also saw the first use of meritbased reordering. This means individual merit drove the pinon sequence instead of seniority-based factors, including time in grade. Individuals with the highest scoring records of performance will pin-on first once these lists are approved and start their sequence.

"It remains important to focus on competence and character and have a system that incentivizes performance, but also takes into account different decategories. This assists in more velopmental timelines for peo-



U.S. Air Force photos by Senior Airman Jonathon Carnel

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