

# BUCKEYE FLYER

Wright-Patterson AFB, OH

Volume 60, No. 9

September 2021

## 445th aircrew credited with saving Afghan mom, baby



Tech. Sgt. Zachary Bower

A C-17 Globemaster III aircrew from the 445th Airlift Wing, call sign Reach 828, is credited with saving the life of an Afghan mother during an evacuation flight Aug. 21, 2021. During the flight, the mother went into labor and began experiencing complications due to low blood pressure. The aircraft commander, Lt. Col. Dustin Johnson, 89th Airlift Squadron, C-17 pilot, made the decision to descend in altitude to increase air pressure in the aircraft, which helped stabilize and save the mother's life. After the plane landed at Ramstein Air Base, Germany, medical support personnel from the 86th Medical Group helped to deliver the baby. The baby was named Reach after the call sign.

## Wright-Patt, Luke AFB Citizen Airmen train with Army Reserve

By Capt. Wilson Wise

445th Airlift Wing Public Affairs

Personnel from the 445th Aeromedical Staging Squadron and 445th Aeromedical Evacuation Squadron joined Army medical personnel from the 84th Training Command, Fort Knox, Kentucky Aug. 6-7, 2021 for a joint force exercise specifically designed to increase skills in caring for combat wounded in challenging remote locations where traditional medical evacuation may not be possible.

Operation Serpentine Wall also included reservists from the 944th Fighter Wing, Luke Air Force Base, Arizona, as well as local civilian partners.

Every participant in the exercise, whether civilian or military, worked together in consort toward commander, Air Force Reserve Command, Lt. Gen. Richard Scobee's first priority, "To prioritize strategic depth and accelerate readiness."

The events focused on streamlining three key trauma care events: airlift coordination, battle field readiness skills, and ground triage and transport.

Training conducted Aug. 6 focused on airlift coordination. Airmen from the 445th AES stabilized simulated patients brought on board a 445th Airlift Wing C-17 Globemaster III by reservists from the 445th



Staff Sgt. Matthew Bruch

Reserve Citizen Airmen from the 445th Aeromedical Evacuation Squadron transfer a patient from an Army Reserve HH-60M Black Hawk medevac helicopter at Wright-Patterson Air Force Base, Ohio, Aug. 6, 2021.

See JOINT EXERCISE, page 5

# Wing welcomes new A&FR director

*By Mrs. Shanna King  
445th Airman and Family Readiness Director*

The 445th Airman and Family Readiness Office is once again fully manned! My name is Shanna King, and I am the new Director of the Airman and Family Readiness Office.



I'm a born and raised south-west Ohio girl and Miami University alumni, and so this is a homecoming of sorts for me.

When we married, my husband was active duty Air Force and was stationed at Mountain Home AFB in Idaho. I left Ohio in 2003, and three states, two countries, and two kids later, we are back in

Ohio. My journey with A&FR started in 2007 as a spouse hire at Royal Air Force Lakenheath, however, I have spent the last nine and a half years working for the Air Force Reserve at Westover Air Reserve Base in Massachusetts. I firmly believe I was put here to help others, and helping you and your families is my purpose and the purpose of Airman and Family Readiness. I love helping people! I also love talking about all things Disney, youth hockey and alpacas!

If you are not familiar with Airman and Family Readiness and all the services we can provide, I think the simplest way to sum it up is, Airman and Family

Readiness is your one stop shop for information and referral for all services available to you and your family.

If you don't know who to call, call Airman and Family Readiness and we can either assist or point you in the right direction. Programs that we are responsible for include: Transition Assistance Program, Pre- and Post - deployment assistance, deployment sustainment assistance for families, Key Spouse program, personal financial readiness, employment assistance/resume writing, and Air Force Aid Society.

We also provide general information and referral to Veterans Assistance Benefits Advisors, school liaison officer, Exceptional Family Member Program, Military and Family Life Counselors, Air Force Wounded Warrior Program, and volunteer resources. We also have information and referrals to off base helping agencies, and can assist you in finding resources in your local community. If myself or my team of awesome traditional reservists can be of any assistance, please email, call or stop by!

Customer service hours are 8 a.m. to 3:30 p.m. Monday - Friday and 7:30 a.m. to 3:30 p.m. on the Scarlet unit training assembly. A&FR is located in building 4014, room 118. Contact information is: org box - 445fss.afrc@us.af.mil; weekday phone: 937-522-4607; UTA phone: 937-656-1502/3227/2612; and after hours emergency phone: 937-694-3921.

## September is suicide prevention month

*By Ms. Vera McClain  
445th Airlift Wing Director of Psychological Health*

September is National Suicide Prevention Month.

National Suicide Prevention week is Sept. 5-11. National Suicide Prevention Day is Sept. 5.

Awareness is key. These specific times are designed to increase awareness and focus. True suicide prevention starts before there are any acute signs of distress. Before any early warning signs. These are very important to know. Prevention starts in our daily lives. Communication is key. A sense of belonging, being connected has been proven to be a protective factor.

They foster a protective environment that increases resilience around stressful life factors.

Anyone, anywhere can get involved in suicide prevention. Take time to get to know those around you. These seemingly small things make a big impact in our daily lives.

The new acronym S.L.O. - safes, locks, and outside the home can reduce the risk of a suicide attempt. It is evidenced based that 90 percent of those who attempt and survive do not continue on to die by suicide later. One way to safeguard gun safety is locks. There are locks

available at the Base Exchange Home and Garden next to the gun display case. There is a limited supply in the Director of Psychological Health office (main area on the shelf under the television).

If you or someone you know is in an emergency, call the National Suicide Prevention Lifeline at 800-273-TALK (8255), text #741741 or call 911 immediately."

To contact the 445th Airlift Wing DPH, call 937-257-6267. The 655th Intelligence, Surveillance and Reconnaissance Wing DPH can be reached at 937-713-1101.





# ASTS Airmen participate in skills training at Dayton VA

## Unit continues partnership with medical center

By Senior Airman Erin Zimpfer  
445th Airlift Wing Public Affairs

More than 40 Airmen from the 445th Aeromedical Staging Squadron, Wright-Patterson Air Force Base, Ohio and the 944th Aeromedical Staging Squadron, Luke Air Force Base, Arizona trained together Aug. 6, 2021 at the state of the art simulation facility located at the Veterans Affairs Medical Center in Dayton, Ohio.

The Dayton VA and 445th ASTS have a long-standing history of cooperation to meet training requirements and in June 2021, a memorandum of understanding (MOU) was reached, once again, between the two organizations.



**First Lt. Charran Booker, 445th Aeromedical Staging Squadron clinical nurse, applies a nasal pharyngeal to a "patient" for airway management at the Dayton Veterans Affairs Medical facility simulation lab Aug. 6, 2021.**

COVID-19, we are so happy to have this resource available again for training."

Trick, who is also in charge of ensuring the clinical nurses at ASTS meet their comprehensive medical readiness training plans, said the space and equipment at the VA allowed them to have eight training stations while still following current Department of Defense COVID-19 safety protocols.

The ASTS nurses who participated in the skills training had a positive experience.

"It was a great collaboration, I wish we could do it more often," added 1st Lt. Charran Booker, clinical

nurse, 445th ASTS. "Hopefully this is the start of many because the VA has all the equipment since they are a medical center and we got a lot of education out of it."

The Airmen were able to train on IV insertion, dressing changes, mass casualty triage, suturing, nasal gastric tubes, foleys and many other medical procedures with life-like mannequins.

Booker also shared the benefits of training with another ASTS unit.

"It's great to train with other units so when we go to deploy, we are used to working and serving together," said Booker.

Trick added that the space and equipment are not the only benefits to training at the VA.

"A lot of our members have had active duty time and qualify for VA benefits but have never been in the facility," he said. "It is good for our members to see that the VA is there for us afterwards for the continuity of lifelong care for service members," said Trick.

Besides the hands-on skills training, Trick said the experience allows them to network and learn about vendor resources that offer training equipment that would be useful at their squadron.

Lastly, Trick noticed another benefit to the collaboration between the VA and ASTS.

"Walking through the hallways (of the VA) in uniform, a lot of veterans stop and talk to us," he shared. "It means a lot to them to have that interaction and connection to their service."

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Photos by Master Sgt. Patrick O'Reilly

**Capt. Benjamin Trick, simulation lab supervisor, applies a one notch suture on simulated skin at the Dayton Veterans Affairs Medical Center simulation lab, Aug. 6, 2021.**



# C-17 good platform for MagNav development

By Stacy Vaughn  
445th Airlift Wing Public Affairs

A team from the Air Force Institute of Technology, Air Force Research Lab, and Department of the Air Force/Massachusetts Institute of Technology Artificial Intelligence Accelerator tested a stand-alone sensor on a 445th Airlift Wing C-17 Globemaster III, Aug. 6, 2021 as part of ongoing magnetic-navigation research.

The Mag in a Box, a navigation system for global positioning system (GPS) denied environments, was brought on board the C-17 by Evelyn Boettcher, an AFIT contractor. The device is a stand-alone sensor for quick installation on aircraft for data collection or proof of concept demonstration. Boettcher and the team walked around the inside of the C-17 to determine the best place to put the device that wouldn't be affected by any interference, such as any steel components of the aircraft.

Dr. Aaron Nielsen, Autonomy and Navigation Technology (ANT) Center staff at AFIT, said they are researching a variety of global positioning system (GPS) alternatives for situations when GPS is



Photos by Master Sgt. Patrick O'Reilly

**Evelyn Boettcher, an Air Force Institute of Technology contractor, prepares a Mag in a Box, a navigation system for GPS denied environments, for testing on a 445th Airlift Wing C-17 Globemaster III Aug. 6, 2021.**



## Mag in a Box equipment

not available or is unreliable. He said one of those technologies is Magnetic Navigation, which uses the pattern of magnetism that is in the Earth's crust.

"The magnetic field most people are familiar with is the large core field that compasses use to point north. The Earth's crust has a distinctive pattern based on the geology of the local rocks which forms a map that we can use to navigate. The crust magnetic field is 100 times smaller than the magnetic field used by a compass, so we need a very sensitive magnetometer.

"The reason we came to the 445th Airlift Wing was to look for potential locations to install these sensors. The C-17 is like a giant magnet and we have software techniques to compensate for aircraft magnetic field, and measure the field from the rocks in the Earth's crust alone. With this informa-

tion we can match the measured values to magnetic maps and find the aircraft location," Nielsen said.

Capt. Kyle McAlpin, AI Research Flight Commander, DAF/MIT AI Accelerator, said the visit was not a flight, but a magnetic survey of the aircraft while it sits stationary on the ground.

"The goal is to identify the best location to put a magnetometer in a pelican case for when we do eventually fly it on a C-17 in the near future. It hasn't flown on a C-17 before but it has flown on other military assets; the F-16 (in a slightly different form) and at least one Navy airframe," McAlpin said.

From a 445th perspective, the test was a team effort. Lt. Col. Eric Florschuetz, 445th Operations Support Squadron chief of current operations, walked the group through the aircraft for the test.

"We as a team (maintenance and operations) answered questions about the make-up of the aircraft, mounting solutions for their equipment, and how currently installed navigation equipment on the aircraft works," said Florschuetz.

The best spot for the Mag in a Box the team found for this visit was the catwalk (the area that overlooks the cargo bay).

"We found the visit to be very useful and informative and the entire team so helpful with everything we needed," Nielsen said.





## JOINT EXERCISE from page 1

ASTS and the 944th ASTS. The 944th ASTS aligned their annual training with the 445th ASTS to maximize training capabilities of the En-Route Patient Staging System (ERPSS) mission which isn't available at Luke AFB.

In addition to the C-17, Army helicopters also played a key role in the training by providing medical evacuation support.

Lt. Col. Michael Policastro, 445th ASTS Critical Care Air Transport Team flight commander and physician in charge, orchestrated multi-service airlift training with Army reservists from Fort Knox.

"The development of this exercise is the result of ever-changing real-world tactics and real-world operative theaters. We began to see the need for joint-force training to combine Army and Air Force medical processes."

Policastro said Soldiers and Airmen frequently deploy together and need to quickly adapt to different medical sequences and terminology. Depending on the situation, patients may be evacuated and transported on either a Blackhawk helicopter or a C-17 Globemaster III.

"This was unregulated training between the Army medics, AE medical crew and CCATT for integrated care coordination. Coordination of Operation Serpentine Wall involved true joint force command elements from Army and Air Force members," Policastro said.

Maj. Forrest Holdsworth, company commander, 5th Battalion, 159th Aviation Regiment, Fort Knox, Kentucky said, "The first time we integrated with Air Force medics was in U.S. Central Command. We had to adapt our processes on the spot while performing missions. As a result, we had the idea to integrate training at home before we meet in theater again."

Holdsworth finds value for his Soldiers in participating in "tail-to-tail transfers" between helicopters and airplanes.

"Training with our Air Force counterparts is extremely important because the faster we work, the more lives we can potentially save," Holdsworth said.

During the course of their annual tour, Luke Airmen serving in the medical career field,

such as aerospace medical service and health service management, worked tirelessly on comprehensive medical readiness program requirements (CMRP) and Tactical Combat Casualty Care (TCCC), formerly known as self-aid and buddy care.

With a cadre of certified instructors, the 944th ASTS was able to train and certify 19 members of the 445th ASTS in Tactical Combat Casualty Care while training at Calamityville.

Master Sgt. Justin Sanderson, 944th FW air staging technician, is proud of the 27 people involved in the exercises from Luke AFB.

"They took time away from their families and completed hundreds of tasks. Nineteen people will be TCCC certified at the end of the annual tour," Sanderson said.

The final training for the all members took place mid-morning Aug. 7 at Wright State University's Calamityville campus. Calamityville is a training, testing, and research venue where military and civilian emergency responders hone their skills while building relationships.

Inside a complex concrete structure that resembles a war zone-damaged abandoned industrial building, service members participated in hands-on training. Each training station provided refresher information on TCCC topics ranging from trauma assessment and tourniquet application to radio etiquette.

After lunch, a capstone activity involving simulated battle field explosions and machine gun fire left 30 "casualties" throughout the Calamityville complex. Through high-pressure battlefield simulations, service

members acted quickly using their existing skillsets. "Casualties" were made to appear injured through the use of prosthetics and makeup, and coached to exhibit symptoms including shock, lacerations, blunt force trauma and numerous other injuries.

Col. Roberta Stemen, 445th ASTS commander, is proud of her Airmen's hard work and the success of the training.

"My vision was clear and concise. We need to train to deploy and what we've done this weekend is remarkable," Stemen said.



**First Lt. Megan K. Busellato, 445th Aeromedical Staging Squadron physician assistant, inserts an intraosseous needle into a bone during Tactical Combat Casualty Care training, Aug. 7, 2021.**



Photos by Master Sgt. Patrick O'Reilly

**Members of the 244th Aviation Combat Brigade, Fort Knox, Kentucky undergo Tactical Combat Casualty Care training, Aug. 7, 2021.**



# SPOTLIGHT



Master Sgt. Patrick O'Reilly

**Rank/Name:** 1st Lt. Ryan Benson

**Unit:** 89th Airlift Squadron

**Duty Title:** Operations Manager/Executive Officer

**Hometown:** Downey, California

**Civilian Job:** Conductor, Burlington Northern Santa Fe Railway

**Education:** I have an Associate of Science degree in aircrew operations from the Community College of the Air Force and a Bachelor of Science degree in

aviation management from Southern Illinois University, Carbondale.

**Hobbies:** Flying, cycling, kayaking, hiking and camping, road trips and lake trip. Love to cook or try new restaurants, live bands, breweries, wineries, distilleries and FC Cincy!

**Career Goal:** As a prior C-17 loadmaster, I love the airlift mission. My ultimate goal is to become a C-17 pilot and contribute to the 89th Airlift Squadron as an Air Reserve Technician/Active Guard Reserve.

**What do you like about working at the 445th?:**

My top three: 1) Hands down, the awesome people in the 445th I get to work with! As I am spearheading the 89th AS awards and decorations program, it is gratifying to get to recognize members for their tremendous contributions and service. 2) Amazing opportunities and support I have to excel in my Air Force career. 3) The Reserve airlift mission and the local community I have the pleasure to be part of.

**Why did you join the Air Force?:** My desire to join the Air Force stems from my lifelong passion for both aviation and military service. Serving in the U.S. Air Force is an honor and has greatly changed my life. Being a prior NCO, I was fortunate to serve as a C-17 loadmaster. The experience was priceless and contributed to my professional aviation career. For me, earning a commissioned pilot slot is the next step to further my career in the Air Force and continue to mature as a skilled aviator and leader. The 445th has given me the opportunity to not only achieve my highest dream, meet new challenges and develop, but to allow me to give back to my country.

## Lactation room available for 445th moms

The 445th Airlift Wing opened a lactation room in building 4014, room 110.

This room was established to provide a safe, healthy environment for nursing mothers.

To ensure privacy, there is a lock installed inside of the door. When



the room is not in use, the door will remain unlocked with the light off. The door will only be locked when in use.

The room contains a refrigerator for storage that is stocked with water; storage supplies such as plastic storage bags, labels, sharpies and separate containers for each mother. There is also a filing cabinet that contains cloth baskets to store belongings and necessary items without having to drag them back and forth to the unit.

Labels are provided for the baskets so that each mother can have her own. Mothers may also bring their own storage container and leave it in the cabinet. The con-



Photos by Master Sgt. Patrick O'Reilly

tainer must fit inside the cabinet in order to keep the room clean and organized.

A sink is also available in the room with all necessary cleaning supplies provided.





# News Briefs

## Retirements

### September 2021

MSgt Cassandra Bartlett, FSS  
MSgt James Martin, MXS

## Promotions

### Senior Master Sergeant

Glenn Olmstead, 87 APS  
Leo Swank, CES

### Master Sergeant

David Ashworth, AMXS  
Jillia Botteicher, ASTS  
Jason Thomas, AMDS

### Technical Sergeant

Michael Bell, AMDS  
Michael Logan, AMXS  
Anthony Marrazzi, AMDS  
Jared McCabe, AMDS  
John McDermott, MXS  
Anne Textor, AMDS  
Hai Zhu, MXS

### Staff Sergeant

Matthew Archer, CES  
David Cano, MXS  
Chelsea Castleberry, CES

Thomas Drouillard, CES

### Senior Airman

Grant Bartel, ASTS  
Andrew Baugham, MXS  
Shaun Carson, AMXS  
Jackson Carter, AMXS  
Matthew Dazen, AMXS  
Rachel Fritz, 87 APS  
Jackson Martin, AMXS  
Jermaine Richards, AMXS  
Jared Seal, AMXS  
Alyssa Smallwood, MXS

### Airman 1st Class

Hannah Elam, ASTS  
Kaylie Torresmalis, AMXS

### Airman

Steven Benock, 87 APS  
William Lugo, ASTS

## Awards

### Meritorious Service Medal

MSgt Wayne Buckingham, AMXS  
TSgt Cody Smeltzer, AMDS

## Air Force

### Commendation Medal

SMSgt Gerald Sandoval, AMXS  
MSgt Brandon Maxie, MXG

### Air Force Achievement Medal

SMSgt Lauren Hawkins, ASTS

## Newcomers

2 Lt Evan Postma, OSS  
MSgt Sean Stump, FSS  
SSgt Joshua Morgan, CES  
SSgt Michael Quiroz, CES  
SrA Cameron Bennett, CES  
SrA Alison Briggs, AES  
SrA Nathaniel Davis, ASTS  
SrA Tommy Pham, SFS  
A1C Hailey Endsley, AES  
A1C Rachel Fritz, 87 APS  
A1C Valerie Phan, ASTS  
A1C Samantha Williams, ASTS  
AB Hayden Arnold, SFS

AB Grant Bartel, ASTS  
AB Stephanie Ganow, ASTS  
AB Eddie McCollum, MXS  
AB Kirby Stark, AMXS

## Buckeye Flyer

### 445th Airlift Wing

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Lt. Col. Cynthia Harris  
Chief, Public Affairs  
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U.S. Government Printing Office  
5-00001-445AW

## 445th AW Inspector General tidbits



Maintenance of an inspection ready state is the norm!

The Air Force Inspection System:

Embrace the RED!!!

- Identify weaknesses
- Acknowledge non-compliance
- Empower/enable at all levels for change
- Eliminate fraud, waste and abuse

#PREPARATION IS FUEL

INHERENTLY WATER-UP



# Around the wing...



Senior Airman Angela Jackson



Senior Airman Angela Jackson

**(left)** Senior Airmen Derek Reighard and Matthew Fahs, 445th Aircraft Maintenance Squadron crew chiefs, reinstall rails on a C-17 Globemaster III aircraft at Wright-Patterson Air Force Base, Ohio, Aug. 22, 2021.

**(right)** Senior Airman Sadiq Shareeque, 445th AMXS crew chief, performs a basic preflight inspection on the landing gear system of a C-17 at Wright-Patterson AFB, Ohio, Aug. 22, 2021.



Tech.Sgt Joel McCullough



Master Sgt. Patrick O'Reilly

**(left)** Airmen from the 445th Logistics Readiness Squadron material management flight observe a forklift in motion on the flightline during training at Wright-Patterson Air Force Base, Ohio, Aug. 22, 2021.

**(right)** Senior Airman Charles Reano, 445th Force Support Squadron communications element client systems technician, reimages a computer, Aug. 24, 2021.

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