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**Hero Award presented to AEDC engineer**

By Deidre Ortiz

ATA Public Affairs

Dr. Robert Knapke, ATA engineer and scientist, was selected as recipient of the Hero Award for the Up and Coming in High Performance Computing Modernization Program.

Sandy Landsberg, associate director of Resource Management for the HP-CMP, presented Knapke with the award during a presentation held Oct. 19. Bonnie Heikkinen, ATA project manager, said she nominated Knapke “for rapidly becoming proficient at executing and validating the CREATE™-A V Kestrel product in support of the Air Force F-22 Digital Thread effort; demonstrating the exact skills needed by program offices to accelerate vehicle design processes and minimize costly redesign—proving that significant ground test cost savings are possible.”

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**The history behind German wind tunnels at AEDC**

By Chris Rumley

AEDC Historian

The story of the German wind tunnels at AEDC begins in July 1944 somewhere in the air over Germany. That is when our Air Force bomber pilots first encountered high speed German aircraft flying without the aid of propellers. These jet aircraft were faster than anything in the skies and they tore apart many an allied bomber formation in the summer of 1944.

The German Messerschmitt ME-262 jet aircraft was just one technological breakthrough for Germany during WWII. Two other advanced weapons, the V1 and V2 missiles, appeared almost simultaneously with enemy jets. The German military fired thousands of the missiles across the English Channel at targets near London. The most feared weapon was the V2 supersonic missile. The V2 arrived at a target without warning, carried a large explosive payload, and was virtually unstoppable. All three weapons were advanced beyond American technology with capabilities that rendered our ground test facilities inadequate. Had Hitler realized the full potential of these weapons earlier, he could have mass produced them to win the war or sue for peace. These were the weapons of the future.

Air Force General Henry “Hap” Arnold was in England in 1944 just after D-Day and saw the first V1 buzz bombs...
Tobacco Use in the Air Force

Tobacco Use in the Air Force

1. The following revised AEDC smoking policy is effective immediately. Smoking is permitted solely in designated smoking areas identified by a plastic “smoke genie.” This receptacle is for the sole purpose of cigarette butt disposal. If there is an electronic cigarette that is used, it must be disposed of in the receptacle. Electronic cigarettes are prohibited. Personnel are allowed to smoke in their personal vehicles at any time. Smoking areas will be held to the absolute minimum and will be located in low traffic, low visibility areas away from points of building ingress/egress and any equipment. The crated facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All smoking permitted and “no smoking” signs will be removed unless specifically required by OSHA.

2. The fact a person smokes has no bearing on the number of breaks they may take. Breaks should be taken in accordance with the Department of the Air Force, AEDC’s A 406-000-0006. View of the products as distributed.

For advertising information, call (931) 454-5855 or visit www.arnold.af.mil.

ACTION LINE

For general information about High Mach, call (931) 454-5855 or visit www.arnold.af.mil.

SMOKING POLICY

Vision

“AEDC will continuously and assertively promote a smoke-free environment to improve the health and safety of our employees and the common trust in our facilities.”

Core Values

1. Integrity
2. Service before self
3. Excellence in all we do

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HISTORY from page 1

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HISTORY from page 1

and the deviation caused by the V2s. Realizing the dangers hidden in missile and jet technology, theContained the classification of German weapons. Specifically, he wanted to control an enemy missile and have it reverse engineered in America. The operation was a success and led to America’s first missiles and long range rockets based on German technology.

In addition to capturing warheads and missiles, Gen.

American sent a small team of scientists into Europe just beyond the advancing line of our troops. Their mission, known as the “Run-up Mission”, was to discover German Air Force technologies and locate the research facilities used for their advancement.

Wild manned scientists destined as high ranking military officers made their way into Europe investigating for the German air sites. To enter the mission included the selection of primarily Jewish and African American soldiers, armed with a few and many German civilians, whose cities had been bombed to rubble, were too cooperative.

Dr. Watendorf learned that for the German scientists and scientists, Federal and, State, and local government. Personnel are allowed to smoke in their personal vehicles at any time. Smoking areas will be held to the

A Regular underwritten policy.

17, 18 story buildings all had homes on top of them so that, from the air, it looked like a forest.

In Munich, hidden deep inside the BMW Motor Werks (BMW) military vehicle plant, the scientists found the world’s most advanced jet engine test facility. Here the German scientists could test advanced jet propulsion systems at any Mach number or altitude.

Because America had focused on mass production of existing technologies to win the war, we had to develop new technologies that could produce the quantity of air required to operate jet engines. When Dr. Watendorf’s team learned that our Military Government was prepared to hand over the captured plans from the Germans to White Oak, they were prepared. The captured plans were to be used as the cornerstone of our own Gas Dynamics Facility

A 1945 photo shows one of the two high altitude cells at the Munich BMW plant. Engines having up to 4,400 rated altitudes. (This policy is dated December 20, 2013.)

Although the Action Line is always available to the public, the best and fastest way to get your issue resolved is by using your chain of command or by contacting the organization directly involved, encourage everyone to go right first, then if the situation isn’t resolved, right, give us a chance.

Col. Rodney Todaro AEDC Commander

Allied advance interrupted construction of a Mach 10 hypersonic tunnel at the same location. The captured tunnels were sent to the U.S. Navy laboratories at White Oak, Maryland, which is now a geographically separated AEDC facility. The original German tunnels remained in use at White Oak for some time. The T-3 supersonic tunnels was used for calibrations until 1997. American engineers used the captured plans from the tunnels to build our Gas Dynamics Facility later renamed to Van Kar- man Facility. A third 18 story supercruise tunnel from Kielchen was sent to White Oak, but was given to the University of Maryland.

Engineers took the basic plan of that tunnel and expanded it to build our 16-foot supersonic tunnel at Arnold AFB.

In addition to the tunnels, nine German scientists came to AEDC and 12 men went to the Navy at White Oak. These scientists helped rebuild and operate these facilities. Dr. Watendorf’s suggestion to domestic and rework these facilities for Germany. Federal and, State, and local government. Personnel are allowed to smoke in their personal vehicles at any time. Smoking areas will be held to the

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Gen. Ellen M. Pawlikowski (back row, second from left), commander of Air Force Material Command, poses for a group photo while touring the AEDC Arc Heaters Test Facility Oct. 16. The facility provides high-enthalpy environments to test materials and thermal protection. Pictured in the front row from left is Lt. Col. Mark O’Reilly, AEDC Test System Sustainment Division Chief; Col. Timothy West, AEDC Test Operations Division Chief; Gary Hammock, Space and Missile Combined Test Force aerospace engineer; back row from left: Maj. Gen. Warren D. Berry, AFMC vice commander; Pawlikowski; Lt. Col. Jason Armstrong, Space and Missile Test Director; 1st Lt. Zahi Abi Chaker, AEDC Command Executive Officer; Col. Rodney Todd, commander of AEDC; and Dr. Edward Kraft, AEDC Chief Technologist. (U.S. Air Force photo/Jacqueline Cowan)

Arnold Medical Aid Station announces new hours and procedures

The new office hours for the Arnold-Air Force Base Medical Aid Station are 7 a.m. – noon and 1 – 3:30 p.m. The office will close for lunch between 12 – 1 p.m. All patients will be seen by appointment only. Walk-in customers, who need vaccinations, eye glass orders, blood draws, Periodic Health Assessments, and other medical visits, will be scheduled by appointment.

The base Medical Aid Station provides medical services only to active duty military and their dependents, and reservists. To schedule an appointment, call the clinic at 454-5351.

ATA presents donation to South Middle School

ATA Employee and Community Activities Committee member Ted Boswell presents a $500 ATA donation to Amelia Myers for the South Middle School Athletic Program. The E&CAC is responsible for making ATA donations to charitable organizations in the area surrounding Arnold Air Force Base. (Photo provided)

AFMC Commander visits AEDC

Gen. Ellen M. Pawlikowski (left), commander of Air Force Materiel Command, presents the Commander’s Coin to Staff Sgt. Jared Vanwey, Air Force Financial Management and Comptroller Division, during the Arnold Air Force Base, Tenn., Commander’s Call at the University of Tennessee Space Institute auditorium Oct. 16. The general also presented coins to Clark Brantien, HighFlyer’s “Test Support Division; and 2nd Lt. Roy Fisher, of the Propulsion Wind Tunnel Test Branch. Commander’s Coins are presented to authorize a job well done. (U.S. Air Force photo/Holly Fowler)

Judges and Referees needed for FIRST® LEGO® League Tournament

November 2, 2015 • 3

AWARD from page 1

Knapke was hired at AEDC in September 2014 and right away started working on the Air Force F-22 Digital Thread project, an effort that uses computational science and engineering tools such as the HPCMP CREATE™-AV Kestrel product for simulation programs. “These products are intended to provide flight vehicle performance insight early in the design process in order to accelerate the vehicle design process and minimize costly re-design,” Knapke stated. Validation of Kestrel output against the HPCMP wind tunnel test data provides confidence in the use of these tools,” Knapke said. “Using the CREATE™-AV Kestrel tool, Knapke determined the ‘best practices’ for running numerous simulations to compare with wind tunnel tests.”

Knapke stated he was “excited to hit the ground running” and be part of the Digital Thread project. “I have used the DOD High Performance Computing resources to run numerous CFD simulations of the wind tunnel scale F-22,” he said. “The results of these simulations were used to validate the CFD software against wind tunnel data. Also, I was granted early access to Gordon, a new supercomputer at the Navy DOD Supercomputing Resource Center, as part of a HPCMP Capabilities Application Project. On Gordon, I had access to 50,000 CPU’s (central processing units).”

Knapke performed a scalability analysis of the CFD software and I completed simulations of the F-22 that were much larger than previously possible.”

A three-time graduate of the University of Cincinnati, Knapke said he’s always had an interest in physics and math, and when contemplating career paths, it was aerospace engineering that interested him most. “After entering college, I found that I enjoyed programming and performing computer simulations. I was able to combine those interests with CFD,” he said. “The focus of my master’s degree was on the unsteady flow physics of a Counter-Rotating Axisymmetric Impeller.”

Knapke said he’s glad to have the opportunity to put his background to use and thanks his project manager for acknowledg- ing his recent efforts. “I am grateful for the recognition of my hard work and for the support of my project manager, Bonnie Heikkinen, who nominated me for the award.”
Holistic Health for Veterans – Physical, Mental, and Spiritual

WRIGHT-PATTERSON AIR
FORCE BASE, Ohio – During the holiday season, Air Force Materiel Command will promote the Freeze the Gain Challenge to help the AFMC workforce prevent and control high blood pressure. According to the Centers for Disease Control and Prevention, 1 in 3 adults in the United States has hypertension.

Hypertension (HBP) is often called the “silent killer” because it often has no warning signs or symptoms; you can have it for years without knowing it. During this time, HBP can damage your heart, blood vessels, kidneys and other parts of your body. You can prevent high blood pressure by reducing sodium (salt) intake, being active and keeping a healthy weight.

Freeze the Gain is a weight management program that encourages participants to maintain—not gain—weight over the eight-week challenge period, which runs from Nov. 16 through Jan. 8, 2016. Participants in the FTG challenge will receive a copy of the DASH Eating Plan, developed by the National Institutes of Health. DASH stands for Dietary Approaches to Stop Hypertension. The DASH Eating Plan has been ranked the #1 Overall Diet by U.S. News and World Report five years in a row. It is also recommended by the U.S. Department of Agriculture and the American Heart Association. Civilian Health Promotion Services will conduct the FTG challenge.

The Freeze the Gain program has four parts:

1. Enroll online at AFMCwellness.com between Oct. 13 and Nov. 13 (appropriated fund Department of Defense civilians need to complete the online Health Risk Assessment when they enroll).

2. Print your FTG confirmation email and complete official FTG weigh-in by CHPS staff between Nov. 2 and Nov. 13 to finalize enrollment. Participants will receive the DASH Eating Plan booklet at weigh-in.

3. Attend the CHPS class, “FTG with the DASH Diet.”

4. Complete official weigh-out by CHPS staff between Jan. 11 and Jan. 21, 2016. Participants who complete the FTG challenge without gaining more than two pounds from their initial weight will receive a free lunch container and driedosed measuring spoon. For more information, contact your local CHPS team or visit AFMCwellness.com.

Free to the public, the Freeze the Gain Challenge is open to all military and civilian employees of Wright-Patterson Air Force Base. For more information, contact your local CHPS team or visit AFMCwellness.com. By Air Force Materiel Command

Health and Wellness Team

Summit on Veterans Health

November 13, 2015

Tennessee Valley Authority Alliance

What: Holistic Health for Veterans – Physical, Mental, and Spiritual

When: November 13, 2015

Time: 8:00 a.m. – 3:00 p.m.

Where: The Austin Williams Campus of Tennessee State University, 330 32nd Ave N, Nashville, TN 37203

Contact cjone132@my.tnstate.edu to register

Arnold AFB Base Commissary WILL BE OPEN Veterans’ Day November 11
WASHINGTO (AFNS) -- The Air Force released a five-year Sexual Assault Prevention and Response Strategy that will guide the Air Force in developing and implementing a robust prevention model while continually honing responsible sexual behavior.

The secretary, chief of staff and chief master sergeant of the Air Force signed a fowrd to the strategy changing all Airman’s focus on the importance of preventing sexual abuse.

“Sexual assault prevention is critical to the health, morale and well-being of Airmen and ultimately essential to Air Force readiness,” said Secretary of the Air Force Deborah Lee James.

“This strategy lays out the deliberate, science-based process we will use to curb our ranks.”

The strategy outlines both response and prevention strategies. Although Airman’s will likely be involved in the response portion of the strategy, the prevention strategy portion is tailored to address special groups, and cultures.

Using a public health approach to prevention, the strategy will use proven prevention programs, policies and best practices to reduce risk factors and enhance protective factors,” Tharp said.

“Fostering skills such as being an active and engaged bystander, managing emotions and resisting peer pressure are proven approaches to preventing violence.”

The Sexual Assault Prevention Strategy lays out the sexual assault prevention tenets, prevents, prevening violence and prompts it; successfully preventing violence at every level; and providing sexual assault prevention activities that reflect the unique roles and development of each Airmen.

In line with the DoD Force Protection strategy published in April, 2014, the Air Force strategy promotes a comprehensive approach that ensures that organizations are skilled and reinforced across the different environments in which an Airmen may perform.

“Our Air Force family comes from all walks of life, but as we all work together, we have vital skills to deliver and protect our culture in a manner that does not allow sexual assault or harassment to occur,” Tharp said. Air Force Chief of Staff Gen. Mark A. Welsh III.

“Sexual assault has a direct impact on our Airmen and our mission. Our Airmen deserve the reassurance they need in an environment in which they are treated with respect and dignity,” James said. “We will not stop looking for ways to improve until we have an Air Force free from sexu- al assault.”
Project Management Professionals Luncheon organizers present local STEM opportunities

By Robert Lindeman
Project Management Professionals Luncheon organizers present local STEM opportunities. Future scientists and engineers are excited to announce that Nov. 19, 11 a.m. to 12:30 p.m. at the AEDC Science, Technology, Engineering, Mathematics Center, Jere Marty will speak about the STEM Program in our area.

The PMPs are members of the Southern Middle Tennessee Branch of the Chattanooga Chapter of the Project Management Institute. The Project Management Institute (PMI) is the world’s leading not-for-profit professional membership association for the project, program and portfolio management profession. Founded in 1969, PMI delivers value for more than 2.5 million professionals working in nearly every country in the world through global advocacy, collaboration, education and research. PMI advances careers, improves organizational success and further strengthens the profession of project management through its globally recognized standards, certifications, resources, tools, academic research, publications, professional development courses, and networking opportunities.

To join PMI, go to www.pmi.org and select the Chattanooga Chapter or for more information email chantal@chattanogapmi.org.

BARLEYS Air Base, Germany (AFNS) – Saving energy and reducing costs is something many people strive to do. When an energy bill comes in excess of $100 million, it becomes a necessity.

The energy bill for U.S. Air Forces in Europe and Air Forces Africa for fiscal year 2013 was a whopping $187.5 million. Since 2010, energy costs have risen about 10 percent, on average annually. Those rising costs inspired the command to reduce energy usage and save money and precious resources.

Capt. Artemiz Avci, the energy manager for USAFE-AFAFRICA, said the command has several initiatives under way to reduce energy usage and save money at each base.

One of those initiatives is the Residential Energy Efficiency Program, which is designed to show base housing residents how much energy they use and how much it costs.

Under the program, energy monitors are installed in the houses of base residents. The monitors provide residents with instant feedback on the amount of electricity used and how much the energy costs per kilowatt hour.

Jaramillo said housing costs amount to 17 percent of the command’s energy bill. A command goal is to have every military family housing resident participate in REEP. USAF Lackland, England, was the first base in USAFE to take part in REEP. Now, about 18 percent of its housing population participates in the program, including residents at RAF Mildenhall, Fellow- ship and RAF Lakenheath.

This has led to a drop of nearly 30 percent in use and gas consumption by base resi- dents, Jaramillo said.

Capt. Sean R. Cockrell, a 448th Civil Engineer Squadron energy manager, said he’s impressed with the reductions at Lakenheath.

“T’m excited because we’re making a difference,” he said. “By applying smart principles, it doesn’t take a lot of effort to apply energy conserva- tion. It’ll only pay off in the long run.”

Cockrell said that since 2007, RAF Lakenheath’s REEP has the po- tential to save thousands of dollars every year. The REEP monitors track energy usage, the housing initiative is one of many Laken- heath is using to reduce energy usage.

The base removed most transformers from its of- fices, saving about $250,000 annually. The base also converted 20 buildings to waterless urinals at minimal cost saving about 2 million gallons of water a year.

Cockrell said that since 2007, RAF Lakenheath has also reduced water usage by 1 percent.

Examples of energy conservation abound across USAFE-AFAFRICA. RAF Fairford, England, reduced water con- sumption by 12.3 percent since 2007. Incirlik Air Base, Germany, implemented several base-wide initiatives that could save about 5.7 million gallons a year.

Cockrell said that since 2007, RAF Lakenheath has also reduced water usage by 1 percent.

Examples of energy conservation abound. RAF Ternhill, England, implemented several base-wide initiatives that could save about 5.7 million gallons a year. RAF Mildenhall also reduced water consumption by 30 percent since 2007.

By Staff Sgt. Lealan Buehrer

182nd Award winning

PEORIA, Ill. (AFNS) – Airmen with the Illinois Air National Guard unveiled a combat simulator that helped create training for tactical air controllers during a ceremony with lawmakers Oct. 5 at the 182nd Airlift Wing.

Lt. Col. Scott R. Twesme, air liaison of the Illinois Air National Guard’s Air Support Operations Squadron that launched the Airmen with the Illinois Airmen unveil combat simulator for tactical air controllers 48 percent, according to an analysis presented to lawmakers Oct. 5 at the 182nd Airlift Wing.

Maj. Jason Clifford, commander of the 189th Air Support Operations Squadron that launched the simulator, said while nothing can replace the experience of controlling live aircraft, the simulator is a cost-effective alternative.

The system is a real-world way for tactical air control parties to train and maintain proficiency, especially in a time of financial restraint when resources are not always available, Clifford said.

The AAJTS also provides an enhanced training environment not available in a live training range.

“We can stop and start events so that guys can learn where they failed or where they did well in their training,” he said. “We can pause the mission, pause the aircraft, give a quick debrief, steer them back in right direction and have them pick up right where they left off.”

Matt Hraska, simulator operator and maintainer for the 169th ASOS, said that the end result of incorporating simulator training will be Airmen equipped to provide close air support to ground troops in danger.

“I’ve been that grunt that never had air support, so I’ve been in situations where you’re getting shot at and you’re like ‘This is it, I’m dying.’” Hraska said. “With this, we give hope. Oner you hear that (aircraft) come in, it’s like ‘Yes!’ So motivation goes up. They know that the Air Force is watching their backs, and that’s the biggest thing – just watching that guy’s six.”

The simulator is comprised of a 270-degree dome projection screen, a control station and an aircraft simulator station. The dome contains 14 high-end projectors that immerse the user in wartime scenarios. It can be networked with other AAJTS simulators, allowing TACPs and pilots to train together worldwide without leaving their bases.

State and federal legislators experienced the simulator firsthand after they participated in its ribbon cutting.

State Rep. Michael Unes, R-East Peoria, said he was amazed at the simulator’s realism and applications to real-world operations.

“I heard about it, but it’s one thing to hear about it and it’s another thing to actually see it in action and how real it is from the ground to the air,” Unes said. “It’s great that we’re able to have this type of training to bring our guys home safely.”

The Peoria TACPs teamed up with the QuantasDyn Corporation in 2012 to help create the AAJTS by ensuring it simulated the battlefield, from the sound of being shot at to equipment malfunctions.

U.S. Rep. Cheri Bus- tos, D-IL., said she was impressed that the concept originating in Central Illinois has now spread throughout the country and overseas.

“I’ve very impressed with that, and I think it shows ingenuity,” Bus- tos said. “It shows that the folks here are not giving up on making sure that they’re always viable, always moving to the next step, and I’m just very, very impressed with the whole operation here.

To date, TACPs with Peoria’s 169th ASOS have completed 101 combat deployments, during which they controlled more than 1,100 aircraft missions. The unit’s Airmen have earned 29 Bronze Stars, 69 commendation medals, 26 Combat Action badges and one Purple Heart.

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ATA Golf Tournament winners announced

The Annual ATA Golf Tournament was held at the WillowBrook Golf Club in Manchester Oct. 9. The winners are pictured below, left to right: First place – Brad Reid, Fred Battles, Stephen George and Lamont Snipes (Photos provided)

Second place – Calvin Eads, David Hurst, Warren Gilbert and Tracy McDonald (not shown)

Third place – Billy Bailey, Bill Longmire, Jimmy Bradford and Tim Reed

Fourth place – Bob Lindeman, J.T. Northcutt, Barry McWhorter and Rick Hoots
Meetings are held on the third Saturday of each month at the Tullahoma American Legion Post 28 in Tullahoma. For more information, please call 434-3664. Donations are tax deductible.

The veterans’ trip, airfare, meals and incidentals – are covered by donations. Each veteran receives a distinctive ball cap and polo shirt. For this flight, Harton Hospital, Tallahoma, donated backpacks for each participant. Escorts pay their own way. At least one doctor and one nurse accompany each flight. Dr. Cerisia Cummings and Charlsie Estes, RN, have made every flight for the past several years. Nurse Charlie Young, a member of the board of directors, contacts each veteran and their families before the flight to make sure it is safe for them to fly. It costs approximately $18,000 – $20,000 to conduct each flight.

Funding is under way for the spring 2016 flight as the group will have to spend $13,000 - $14,000 in advance for airfare and buses to reserve the spring date by January. Veterans are already applying to go on the spring flight. Veterans, a family member or a friend can call (931) 924-3006 or email tennessians2@blomand.net for more information. The seats are filled on a first come, first served basis. More information can also be found on the group’s Facebook page – Honor Flight of Middle Tennessee.

Persons interested in a Middle Tennessee participant Harold Pratt at the Tomb of the Unknown Soldiers at the Arlington National Cemetery Sept. 29. Sipe is a Manchester native who is assigned to the Army Corps of Engineers at the Arlington National Cemetery. (Photo by Claude Morse)

Sen. Bob Corker takes a photo with Isabelle Kentner, a Navy Korean Conflict veteran, at the Korean Conflict Memorial in Washington D.C., Sept. 29. Kentner visited the memorial while participating in the Honor Flight of Middle Tennessee. (Photo by Claude Morse)