The new Mach 18 nozzle design at the AEDC Hypervelocity Wind Tunnel 9 in White Oak, Maryland, near Silver Spring, has been successfully verified using computational fluid dynamic (CFD) codes. This image shows computed contours of Mach number within the new Mach 18 nozzle design. (AEDC image)

By Deidre Ortiz

AEDC releases 2017 Arnold AFB Water Quality Report

The new Mach 18 nozzle design at the AEDC Hypervelocity Wind Tunnel 9 in White Oak, Maryland, near Silver Spring, has been successfully verified using computational fluid dynamic (CFD) codes. This image shows computed Mach number within the new Mach 18 nozzle design. (AEDC image)
By Glen Lazzaret

AEDC - A Full-Time Job

I have 2,500 hours in the F-4 Phantom and I come home on my feet because of you and the guys like you. Your work will produce a powerful force on the enemy and keep the peace for the families of our members of the U.S. Air Force. The Phantoms out of Europe the same night. I had a three-hour tour at Tactical Air Command Headquarters at Langley Air Force Base, Virginia. I was the program director for operation Ready Eagle. I am sure you know that was the equipment of F-15 Eagles into the European theater of operations. Although it was a year in completion, it appeared to the Russians that we equipped Bobart and Camp New Amsterdam with Eagles and flew all of the Phantoms out of Europe the same night. It was quite a shock to the Russian to see F-15’s on the ramp at Bethesda where just the day before, there had been 73 F-4’s. I had the opportunity to brief Dr. Kissinger and General Haig.

“I was the Operations Officer in the F-11 at Luke AFB. You know you’ve got a career! Charley chose to pay for his life on the line daily for you and me. The answers were clear—why do you work at AEDC? Look back at that first quote from Charley “I come home on my feet because of you and guys like you.”

Why do you work at AEDC?

You work here to bring our warriors home on their feet instead of in body bags.

Glen Lazzaret

Arnold AFB, Tenn.

As the holidays approach and you begin planning; take the time to look closely at the environment and who will be occupying it. Common sense isn’t enough. How are you using the camera? Are you crossing a roadway with a small child? Are you sitting in the middle of a busy parking lot? Are you putting yourself and others in harm’s way? Focus on the person and the environment before you take a picture. As with any technology, the most feared words in our adversaries’ vocabulary will be “Cleared for takeoff.”

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Arnold AFB, Tenn.
It’s the season for giving and a renewed approach, it is important to be mindful of the ethics rules as they apply to gift giving and gift acceptance.

The Arnold Air Force Base Legal Office offers holiday advice on the necessary ethical guidelines so you can go forward and enjoy the holiday season.

Any time something with monetary value is offered to a government employee— including a meal, party invitation, or wrapped gift—federal ethics regulations apply. The three main areas of concern during the holiday season are (1) gifts between government supervisors and subordinates, (2) gifts between subordinate and supervisor, and (3) gifts between government and contractor employees.

**Gifts between Government Employees**

As a general rule, peers and coworkers are free to exchange gifts. There are a few restrictions: gifts on gifts given to peers or supervisors. However, common sense and good taste should apply.

**Gifts between Subordinate and Supervisor**

Generally speaking, supervisors may not accept gifts from subordinates or federal personnel who receive pay. Exemptions include any occasion on which gifts are traditionally given or exchanged. When giving the holidays being a traditional source of gift giving, Federal law allows subordinates to gift values at ten dollars or less to their superiors. Also, supervisors may accept food and refreshments shared in the office or may share in the expenses of an office party. Lastly, if a subordinate attends a social event at the supervisor’s expense, the supervisor may give the host a tip or gratuity of a reasonable amount.

**Gifts between Government and Contractor Employees**

Basic ethics rules state that government employees who are bonded. If any AEDC team members or supervisors are free to exchange gifts. There are no legal restrictions on the type and value customarily given as gifts.

**Innovation**

Heather Wilson commented on the importance of the U.S. Air Force being mindful of the ethical guidelines, ensuring everyone in the AEDC family at Arnold Air Force Base is able to enjoy the holiday fun!

Whether you have any questions or concerns and would like to consult an ethics counselor, contact the Legal Office at (931) 454-7604.

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**Design from page 1**

Interactive ideas are also important to the U.S. Air Force because of complex successes and challenges demand that Airmen are innovative and find better and smarter ways to “fly, fight and win.” The Air Force leverages a challenge, Airmen and industry partners to strengthen the innovation ecosystem and looking toward the future.

“What kind of an Air Force do we need in 2030, and how do we stand up for our country’s need of getting there? We are a service who has been there for more than 100 years, who always deep in innovation, and I want to make sure that we’re not losing that skill set.

If any AEDC team members have concerns about how to work more efficiently or how to reduce mission risk, the AEDC Technical Innovations Branch managers would like to hear about it. Contact the Technical Innovations Branch at (931) 454-7461.

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**An AEDC modeling and simulation engineer performed analyses of numerous particle-image velocity (PIV) sensor designs for both Mach 3 and 10 flows to assess boundary layer particle density and disturbances on the boundary layer from particle injection into the stream. This image shows simulated particles being injected from below, into and down of Mach 3 flow. (AEDC image)
AEDC quarterly award winners announced

Photos unavailable for:
- Tech. Sgt. Daniel Hansford; 704th Test Group, Holloman AFB - Non-Commissioned Officer of the Quarter
- Master Sgt. Marc Berger; 704th Test Group, Holloman AFB - Senior Non-Commissioned Officer of the Quarter

AEDC Exceptional Innovator Award
746th Test Support NAVWAR Direct Inject Capability
704th Test Group, Holloman AFB

Team Members: Nicolas Arosemena, Daniel Bacungan, Jason Bingham, Jerome Echelbarger, Grant Graupmann, Jeremiah Johnson, Kalyn Jones, Dominick Martin, Don Morales, Carlos Ruiz, Rodney Smith, Jill Stevera, Nicole Tekell, Eddie Thompson, Kim Tillotson, Brandi Wong
damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of the body. The greatest risk of lead exposure is to infants, young children and pregnant women. Scientists have linked the effect of lead on the brain with lower IQ in children. Adults with kidney problems or high blood pressure can be affected by low levels of lead than more healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother’s bones, which may affect brain development. While Arnold AFB personnel are testing all drinking water sources on base and removing from service any that test above the EPA action level of 15 ppb for lead, there are steps you can take to reduce exposure to lead in drinking water both at work and at home:

1. Run the cold water 15 to 30 seconds to flush out the water in the faucet body and plumbing. This is the source of lead on cold water taps. Boiling water from a home tap will not reduce lead. 
2. Look for alternative sources of water, such as bottled water, or use a water filter. 
3. Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about not only their drinking water, but also food preparation, personal hygiene, and precautions in handling infants and pets from their health care providers. 

Disinfectants and Disinfection By-Products

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**Water Quality Data**

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**Particulate Matter**

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**Halo Acetic Acids**

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**Barium**

Barium occurs naturally at very low concentrations in our groundwater. Chlorite Residual Disinfectant is maintained throughout the distribution system. Chlorine is added to the drinking water supply at well sites to provide assurance that water delivered to customers will remain free of microbiological contamination. This also ensures that the water meets microbiological drinking water standards from the time it is pumped from the ground until it reaches the customer’s tap.

**Disinfection Byproducts**

The unintended reactions of disinfectants with naturally occurring materials in the water (e.g., natural organic matter, bromide, or disinfectant by-product precursors).

**HAAs (Halolactic acids)** are chemicals that form from reacting with water treatment, when water acidity and temperature are slightly high and treat -

**Flour**

For more information about the drinking water in Arnold Village, call Estill Springs City Hall at (931) 649-5188.
Speed drives Air Force, DoD innovation, improvements

By Jim Garamone

WASHINGTON (AFNS) – Speed is the crux of innovation and improvements the Defense Department will make to ensure the force is ready for any contingency, Air Force Vice Chief of Staff Gen. Stephen W. Wilson said at the Defense One Summit Nov. 9 in Washington, D.C.

Wilson said the Air Force is focused on the need for speed.

“We can’t buy new capabilities using old ways,” he said.

Different Threats

The Air Force has been globally engaged for the past 26 years, Wilson said. But, he added, the nature of today’s threats are different. They range from countering violent extremism to the return of Great Power politics with Chinese adventurism in the South China Sea and Russia illegally annexing Crimea and fomenting a civil war in Ukraine.

North Korea developing nuclear weapons and the means to deliver them – including testing an intercontinental ballistic missile – helps “focus” Air Force goals and aims, the general said.

“We are focusing our efforts to be ready for any potential conflict around the globe and give the president options,” Wilson said. “We organize, train and equip forces to make sure they are ready to go for any contingency.”

The Air Force is in the midst of a major modernization push, he said, because the changes in threats require it. The Air Force is modernizing its ICBMs and bomber force. New aerial refueling tankers are needed for global reach. The F-35 Lightning II aircraft is hitting its stride and research has begun on a 6th-generation aircraft.

“Everything we do is to try to compress that time,” Wilson said. “Speed is the big driver.”

Moving Quickly

Developing military capabilities is an involved process, the general said. There is the requirements process, an acquisition process, a contracting process, a testing process and finally a fielding process.

“That takes time,” he said. “We are doing everything we can to shrink that time.”

All this requires a stable budget, the general said, something the DoD has not had for years. Still the service is working with industry partners to do everything we can to compress the time to develop capabilities, Wilson said.

Part of this is enabling service men and women and their civilian peers. The general spoke of going to bases and meeting young Airmen who – on their own – developed new methods to speed processes or wrote new code to automate a particular capability.

Wilson was part of the small Air Force team that worked on the F-117 Nighthawk stealth aircraft in the 1980s. That team, he said, was empowered to make decisions quickly and the result was a game-changing aircraft that performed brilliantly when needed.

“We are trying to do that broadly across all our acquisition programs,” the general said.

The Air Force is heavily invested in artificial intelligence research, he said, especially looking at how computers can sift data and learn.

Data, Speed

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Data, Speed

“Data is the new oil,” Wilson said. “How do we sense the environment? How do we understand it? And how are we able to provide effects around the globe? With speed.”

The Air Force and DoD need to work with industry to exploit this new capability, Wilson said. Still, it will present challenges from a development angle, he said, from a use angle and from an employment angle.

“We are going to have to be thoughtful about this as we go about making truly autonomous things,” Wilson said. “We can’t just unleash technology without being thoughtful about how it can autonomously run.”

8 • November 20, 2017
Return of Turkey Trot draws dozens of runners

By Bradley Hicks
AEDC Public Affairs

Runners leave the starting line during the 32nd annual Turkey Trot. The SK run on Nov. 9 drew more than 50 participants made up of AEDC staff, their families and retirees and service members at Arnold AFB. (U.S. Air Force photo/Rick Goodfriend)

The vibrant hues of the falling leaves blankets the ground outside the Arnold Air Force Base Administration & Engineering Building along with the crispautumn air created an ideal backdrop as AEDC team members and local community lined up to take part in a pre-Thanksgiving tradition, the AEDC Turkey Trot. The 32nd annual Turkey Trot was Nov. 9 and the SK, or approximately 3.1-mile run that began outside the A&E Building, took the 55-registered participants around the loop in front of the building, onto the Fitness Trail and back to the A&E Building.

This year the AEDC Turkey Trot, in a way, marked the return of the decades-old event hosted for years by the Arnold AFB Company Grade Officers Council. First-time organizer 2nd Lt. Ryan Boudreaux, with Space and Missiles Combined Test Force, said an official Turkey Trot was not held last year. Still, around 15 avid runners and prior participants across AEDC joined forces to hold an ad hoc Turkey Trot in 2016.

“They kind of missed the Turkey Trot last year,” Boudreaux said. “They didn’t have an officially sanctioned one last year, so we wanted to make sure that we absolutely get it this year so that we could keep up the tradition.”

To resurrect the Turkey Trot, organizers of this year’s event reviewed notes left by past race coordinators to glean what has worked and what could be tweaked.

“One of the obstacles we ran into this year was that it’s during CFC [Combined Federal Campaign] time, so we didn’t really want to do it as a fundraiser,” Boudreaux said. “I think in past years we’ve done it as a fundraiser either for the CFC or for a local charity, so we went with the food donations.”

While each participant was able to purchase a Turkey Trot T-shirt for $5, the most entry fee for this year’s race was the donation of nonperishable food items. The food donations will be provided to a local food bank.

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“Any of the notes that we were able to take from last year and the notes we were able to take, we think we’ll probably do some kind of prize or something next year,” Boudreaux said.

Paul Wright, program manager with Arnold Air Force Base Capital Improvement Branch, approaches the finish line with the fastest time during the 32nd annual Turkey Trot. (U.S. Air Force photo/Rick Goodfriend)

The mother-daughter duo not only trained together, they also coordinated their Turkey Trot attire, donning the of-the-moment knee socks.

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Registration for the 2017 Turkey Trot began weeks prior to the event. Boudreaux said the response was very positive.

“A lot of people were very excited we were doing it,” he said. “I was surprised that we had 55 people come out. That’s a pretty big number, I think, for fitness stuff, at least when it’s not frozen.”

Unlike past Turkey Trots, this year’s event did not have divisons based on age and gender. There were no prizes and the only thing on the line was bragging rights. Those bragging rights were claimed by Paul Wright, program manager in Arnold AFB Capital Improvements, who outpaced the field with a time of 20 minutes, 23 seconds, crossing the finish line more than two minutes ahead of the next finisher.

Wright, who recently took up running again after a brief layoff, had taken part in the AEDC Turkey Trot each of the seven years prior to this year. He intends to run the 2018 installment.

“It’s a really fun event to get contractors and government folks out here together to give some camaraderie and just have some fun together,” Wright said.

Shanda Peterson, who works in Arnold AFB Financial Management, took up running in July and the Turkey Trot was her first 5K. Her goal is to run a half-marathon, which is 13.1 miles, and the Turkey Trot was a way to gauge her progress. She finished with a time of 25 minutes, 43 seconds.

“I think it’s just a good way to start off Veterans Day, and it’s near Thanksgiving,” she said. “So, when I’m running, I’m envisioning all that I’m thankful for.”

Jory Boudreaux, who works in the Air Force Research Laboratory at Arnold AFB and wife of Ryan Boudreaux, trained with her 12-year-old daughter Amynnah to participate in the Turkey Trot. It marked Amynnah’s first 5K, and she accomplished her goal of running all the way through it.

“I’m happy and tired at the same time,” Amynnah said following the race. “I’m glad I didn’t stop.”

The mother-daughter duo not only trained together, they also coordinated their Turkey Trot attire, donning the of-the-moment knee socks.

“We decided to go all out,” Jory said.

Beth Sinemus, wife of 1st Lt. Tom Sinemus with the Arnold AFB Integration & Support Branch, arrived wearing the same socks, even though she had not coordinated with Jory and Amynnah, allowing them to form a Turkey Trot trio. Sinemus also got into the spirit by running while wearing a colorful turkey hat.

“It’s not a trot without a turkey,” she said.

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“It’s not a trot without a turkey,” she said.

Jory, Amynnah and Sinemus all said they will continue to participate in future Turkey Trots at the Complex.

“After everybody comes together to do it, and I think the loop was really fun,” Jory said. “It was so lovely and pretty. It really got you in the fall mood.”

Boudreaux said organizers are already looking toward the next Turkey Trot, considering ways to enhance the event now that the race is back. Fun, fellowship and landing a helping hand to a worthy cause remain the priorities, but the 2018 AEDC Turkey Trot could be a venue for participants to get their pre-holiday competitive juices flowing.

“This year was a fun run, but I think with the amount of success we had this year and the notes we were able to take, I think we’ll probably do some kind of prizes or something next year,” Boudreaux said.
AEDC Woman’s Club prepares for Christmas

By Barbara McGuire

TULLAHOMA, Tenn. – During the AEDC Woman’s Club Dec. 7 meeting, singer and songstress Carole Carson from South Carolina, will entertain members.

Christmas will be the theme of the meeting and will include Christmas music, a Christmas Boutique, donations for Toys for Tots and Christmas sing-a-long. Gifts and food items will be available to purchase at the meeting through the Christmas Boutique, and participants are encouraged to bring toys for the Toys for Tots donations or give to the Toys for Tots table donations. The Tullahoma Fire Department will pick up donations.

The Nov. 2 meeting featured Dan Thomas, meteorologist from WSMV TV. His presentation featured a Weather Challenge with questions concerning thunderstorms and tornadoes. He also spoke about manifestation information concerning tornadoes and what to do if caught in a tornado. The members and guests viewed his experiments showing a cloud in a bottle and a tornado in a box.

The meeting also featured the Secret Shoppers. Three members shop and display their wares. Members purchase the items and the money raised goes toward the AEDCWC scholarship fund. The secret shoppers were Kate Casey, Suzanne McCorney and Pati Mathis. Suzanne was crowned Queen of the Secret Shoppers. Table Donations of $125 at the Nov. 2 meeting went to Fisher House of Murfreesboro.

The social hour of the Dec. 7 meeting starts at 9 a.m., with the business meeting and program beginning at 10 a.m. Reservations must be made no later than noon Nov. 30 and are required to gain access to the ALC. Make reservations by calling (931) 393-2552 or (931) 636-4152.

The December meeting is open to the public and provides the opportunity to meet the AEDCWC members and become a member. You don’t need to have military connections or be involved with the military to become a member. You don’t need to have military connections or be involved with the military to become a member. You don’t need to have military connections or be involved with the military to become a member. You don’t need to have military connections or be involved with the military to become a member. You don’t need to have military connections or be involved with the military to become a member. You don’t need to have military connections or be involved with the military to become a member.

For information about the AEDC Woman’s Club, call the membership chairman at (931) 435-3560.

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By Staff Sgt. Robert Hicks

Airmen shares story of family, service in wake of natural disasters

ROOSEVELT ROADS, Puerto Rico (AFP) — Looking up in Puerto Rico five miles from Roosevelt Roads, one Airmen from Travis Air Force Base, California knows all too well the dangers due to the location of the island.

“Since I was a child, my family would always stock pile food and water in preparation for the hurricane season,” said Capt. Chris Thomas, 51st Contingency Response Support Squadron civil engineering officer. “There would always be a powerful storm heading straight toward us, but contrary to what we would do at Los Angeles Air Force Base, there was exactly what Hurricane Irma did after deviating the U.S. Virgin Islands.

In the wake of Hurricane Irma, Ocasio and his team were sent to the Virgin Islands to perform an aircraft assessment of airports in St. Thomas and St. Croix.

After the assessments were complete, the team went to Puerto Rico to wait for a fight back to Travis AFB. While there, Hurricane Maria formed.

He spent several nights in Puerto Rico with his family tracking Hurricane Maria’s every move. As the storm grew to a category 5 hurricane and was on a direct path to hit the island, the assessment team received orders to move to MacDill AFB, Florida.

“Four, angry, abandonment was a few things I felt when I had to leave Puerto Rico. This hurricane was the first person the island has seen in a few months.”

According to Puerto Rican Governor Ricardo Rossello, Puerto Rico has not experienced an event of this magnitude in their modern history. The hurricane struck the island with wind up to 155 mph and left millions of people without water, power or telephone coverage.

The night the storm made landfall, Ocasio was in constant contact with his family and sister until around 4 a.m. when they lost cell phone service.

“I didn’t sleep at all that night,” Ocasio said. “I was getting messages from my sister saying how the kids were scared, and she had experienced nothing like this before. This was only the first hours of the storm, I knew they still had another eight hours to go. It was terrifying.”

After Ocasio lost contact with his family, he attached himself to the news and social media, trying to get any information he could to paint a better picture of what was going on in Puerto Rico.

“My family lives in a lowland area, and you see the videos of the massive flooding online and you immediately think, ‘They have to leave the house during the storm and fight the winds to get to higher ground,’” he said.

“Then you start creating all these scenarios in your head that could happen, but you probably won’t.”

After Hurricane Maria passed, the assessment team tasked to reassess the airfield in St. Thomas to ensure the runway was not damaged and could still support aircraft delivering relief supplies to the island.

“When they told me I was going to St. Thomas, it bothered me a little… it had been several days after the hurricane and I still had not heard anything from my family, but I knew, just like I was responding to St. Thomas, my brother-in-law’s arms will be responding to Puerto Rico,” he said.

Once the team was finished in St. Thomas, Ocasio was sent to Puerto Rico. “As soon as I landed, I went to check on my family,” he said. “When I drove up to my sister’s house, she was outside trying to get leftover water from the pipes. She didn’t recognize me until I got out the car, and she immediately got emotional. Then my nephew came over and gave me a hug and started crying as well. It was just a real relief seeing them and knowing they were okay.”

Once he knew his family was okay, he wanted to be hands-on with any type of operations assisting Puerto Rico back on its feet.

“My family was safe,” Ocasio said as he smiled. “Now I just wanted to help, so I drove to Roosevelt Roads where I knew there would be a contingency response element arriving in a couple days. I performed an aircraft assessment and started creating relationships with the other agencies already on the ground.”

When the contingency response element arrived from Travis AFB, Ocasio was the first person the translation team met.

“After all his family had just gone through with Hurricane Irma and Hurricane Maria devastating the island, he was still here ready to complete the mission,” said Leilani John Berger, CRE community at Roosevelt Roads. “He provided us with a detailed brief on the status of the airfield and then he served as a translator and trusted advisor as we met with local airport authorities.”

Thomas has been in Puerto Rico, Ocasio has traveled to San Juan and Pristina to perform aircraft assessments to ensure humanitarian supplies continue to flow through Puerto Rico by aircraft.

“By performing assessments on three of the four major airports in Puerto Rico, Ocasio has done more for the relief effort on the island than anyone I’ve met,” Berger said.
See the November Services Calendar on page 8.