Rectifier upgrade paying off for Hypervelocity Tunnel 9

By Bradley Hicks
AEDC Public Affairs

The team at the AEDC Hypervelocity Wind Tunnel 9 in White Oak, Maryland, is now putting to use equipment installed several years ago - a move that is bringing enhanced safety and greater longevity to the facility.

An electrical rectifier unit, first delivered and installed in 2011, was recently put into operation for the first time. The rectifier is intended to replace an approximately 50-year-old unit that nearing the end of its lifecycle.

The rectifier is an electrical power pack designed to provide variable high-current power at low-voltage conditions to the Tunnel 9 heater system. Tunnel 9 Test & Evaluation Engineer Irma Karvis said the upgrade is part of the Service Life Extension Program (SLEP) effort to modernize the facility to ensure it can continue supporting its customers for many years to come.

According to Tunnel 9 Director Dan Merten, the rectifier was purchased when funding could be allocated to Tunnel 9 priorities. Due to a busy customer schedule, the rectifier was installed with a Rectifier upgrade paying off for Hypervelocity Tunnel 9 (Courtesy photo)

Arc improvements help test teams meet growing workload

By Deidre Ortiz
AEDC Public Affairs

Changes are being implemented at the AEDC High Temperature Laboratory (HTL) at Arnold Air Force Base to assist the test teams in meeting their continuously increasing workload.

The HTL houses the arc heater units – H1, H2 and H3 – that provide aerothermodynamic simulation environments for high-speed vehicle materials and structures. According to Jonathan Kuderman, project engineer, the arc heaters are in "high demand," recently reaching a record year of about 60 test runs.

"We could potentially see close to 100 runs in the future," he said.

Benjamin Weaver, Air Force project manager, explained the HTL test teams are working a lot of hours and overtime to get the work done but, as the requests to use the facility continue to come in, they have been looking at even further ways to accommodate additional testing.

"A study was done to look at everything from the system, process, and infrastructure to see how we can improve our throughput to meet the upcoming requirements," Weaver said.

Lamb receives national award for conservation management

By Deidre Ortiz
AEDC Public Affairs

John Lamb, biologist at Arnold Air Force Base, received the 2018 National Military Fish and Wildlife Association (NMFWA) National Resources Conservation Management Award for Model Programs and Projects in support of natural resources on Department of Defense lands.

This award category recognizes resource managers who further natural resource management on military installations in support of the military mission through developing programs or projects which...
Traditional Tobacco products (e.g. cigars and cigarettes): Smokeless Tobacco products (e.g. snuff and dip):

The following revised Arnold AFB smoking policy is effective immediately and applies to all individuals on Arnold AFB. Smoking in government-owned/leased vehicles is strictly prohibited. Personnel are allowed to smoke in their quarters, including cars, apartments, dormitories, and tents. Personnel are not allowed to smoke in any public area that is not designated as a smoking area. Smoking is not allowed in any area where signs indicate that smoking is prohibited. Smoking is not allowed in any area where there are signs indicating that smoking is prohibited.

For government employees, the fact that a person smokes has no bearing on the number of breaks they are allowed per day. Personnel are not allowed to smoke in any area where signs indicate that smoking is prohibited. Personnel are not allowed to smoke in any area where there are signs indicating that smoking is prohibited.

For more information about the smoking policy, contact the Arnold AFB Office of Special Investigation at 931-454-7830.

AFOSI Det 106 Arnold AFB, Tenn.

Suspicious behaviors to be on the lookout:

- Surveillance
- Bilocation
- Tests of security
- Acquiring supplies
- Suspicious persons on site of place
- Dry runs

For more information, contact: Air Force Office of Special Investigation at 931-454-7830.

Tennessee Society of Professional Engineers host May 3 meeting

By Paul Kelly

Tennessee Society of Professional Engineers will be cybersociety, May 3, at Las Fajitas Mexican Restaurant. The dinner portion of the meeting will begin at 5:30 p.m. and the program will begin at 6:30 p.m.

Kudma, who led the study, wrote a paper laying out the various options for improvement, the scope of that work, and cost estimates. One of the options was using a 3-D printer to print parts for the aircraft.

Having the ability to instead 3-D print these parts will allow for a much quicker turnaround time for testing in the air heaters.

There’s definitely a cost-effectiveness associated with doing this, Kudma added. “We don’t want to wait for the parts to be shipped in to us.”

The study showed another way to meet the increasing workload would be by getting express deals to move the data out of the control room faster. “The 4% we take out of the testing in the air heaters to have the data shipped down and not in store is all this is done in the control room,” Kudma said. “We’d like to be able to move that process out of the control room so we can be prepared for the next test while we’re finishing up video processing.”

In addition to the data the study identified, the team is also working with the Mid-Pressure Air heater Project, which is expected to be a “carving” of the DOD facilities, while applying the highest values of the Air Force, Arnold AFB, by Command or by contacting the organization available, the best and fastest way to get command or by contacting the organization available, the best and fastest way to get

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Action Line

Team AEDC

Team AEDC members Tyler Payne, Deed Wolfe and Jackey Gates set up for a fundraiser at Arnold AFB Base March 30 to raise money for the annu- al educational fund. In addition to an assortment of literature, cookbooks and children’s books, the items included Arnold T-shirts, laminated audio books, movies and CDs. (U.S. Air Force photo/Deidre Ortiz)

3. Smoking Policy

Smoking is not allowed in any area where there are signs indicating that smoking is prohibited. Smoking is not allowed in any area where there are signs indicating that smoking is prohibited.

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HIGH MACH Arnold Air Force Base

Col. Scott Cain Commander Jason Austin Chief Public Affairs

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Use High Mach to market your products or services. Contact Renee at 931-454-6542 or renee@lakeway.com.
AEDC team members recognized for receiving 2018 Science, Engineering and Technical Management Awards

By Raquel March

AEDC Public Affairs

AEDC team members were recently recognized for their outstanding performance in management by receiving an AEDC 2018 Science, Engineering and Technical Management Annual Award.

AEDC Deputy Technical Director, Michael Gleeman, announced the winners through written communications to AEDC team members stating that the awards “provide annual recognition for exemplary contributions and dedication to the science, engineering and technical management community.”

Award winners, individuals and teams in their respective categories, are:

Junior Military Engineer/Scientist Award
Lt. Jack Cornelis, 746th Test Squadron, Holloman Air Force Base

Junior Civilian Scientist/Engineer Award
Kalyn Jones, 746th Test Squadron, Holloman AFB

Junior Military Engineer/Scientist Award
Donny Morales, 746th Test Squadron, Holloman AFB

Junior Civilian Scientist/Engineer Award
Kevin Joyce, 746th Test Squadron, Holloman AFB

Mid-Career Citizen Engineer Award
James Keith, 746th Test Squadron, Holloman AFB

General Bernard P. Randolph Engineering Team Award
Flight Systems Combined Test Force Analysis Team, Test Operations Division, Arnold AFB

Team Members:
Benjamin Mills
Michael Mills
Sarah Adams
Andrew Alexander
Wesley Brindall
Connor Cooper
Daniel Cowley
Joseph Gluffrida
Barrett Greenhiser

Members of the Tunnel 9 team are pictured with the electrical rectifier unit recently put into use. The unit, which was first delivered and installed in 2011, recently went into service to power the heater system.

“Being a new piece of equipment, the rectifier also adds an additional element of safety as it is equipped with its own High Voltage breaker, safety relays and emergency shut-off button,” Fredrick said.

switchgear that allowed operation of the existing, aging transformer to nurse that hardware along until funding could be secured to finish the new rectifier.

With the advent of SLEEP funding, Tunnel 9 continued with activation and validation until several staff vacations delayed activation,” Murken said.

“Now, with the help of some reach-back labor through TOS (Test Operations and Sustainment), the job was completed successfully.”

The original power pack at the facility was an alternating current (AC) unit, while the new rectifier is a direct current (DC) unit.

The rectifier converts 13.8 kV AC from the power grid and approximately 150 V DC at 5,500 Amps for the Tunnel 9 heater, according to Tunnel 9 Chief Facility Engineer Nicholas Frederick.

Kurits added, “We are now able to use the new power pack to power our heater system, which should ensure years of safe and reliable operation. We no longer have to rely solely on a piece of equipment that is over 50 years old.”

Integrating the new unit with the existence Tunnel 9 systems and processes was a multidisciplinary team effort, Kurits said. The said challenges faced included figuring out how to safely switch from AC to DC operation, how to integrate the new unit into the control system, and how to modify facility procedures to accommodate the upgrade.

According to the team at Tunnel 9, the upgraded rectifier has proven to be successful and has also boosted safety at the facility.

“Bring a new piece of equipment, the rectifier also adds an additional element of safety as it is equipped with its own High Voltage breaker, safety relays and emergency shut-off button,” Frederick said.

AEDC team members recognize for receiving 2018 Science, Engineering and Technical Management Awards
Be mindful of bees, and other stinging insects, this spring

By AEDC Safety

Each year during the change of season, these stealthy flyers make their presence known. Already, some of our AEDC teammates have been the victim of sneak attacks. They’re red wasps and yellow jackets, soon to be joined by hornets.

Unlike bees, hornets and wasps have the ability to sting victims repeatedly and are typically more aggressive since a sting does not mean their death. The first sting secretes a pheromone that signals danger and mobilizes the entire nest to attack in defense. Certain fragrances and flavorings can also trigger an attack.

1. Learn where they nest and take care to look before you touch: Be extra cautious when entering storage facilities and out buildings or when working outdoors. Warn coworkers and alert supervision if you find a nest in your work area.

2. Buzz off — if you can. Yellow jackets in particular are disturbed by buzzing noises, and lawn mowers are particularly bothersome to them. Wear long pants when cutting grass – even on a riding mower or bush hog. Tucking pants legs into socks or boots will help prevent the angry critters from crawling up your leg, stinging as they go.

3. Be neutral: Avoid sweet or fruity scents – perfumes, hair spray, some deodorants and sunscreen.

4. Keep it covered: Wait until just before eating to put out food for a picnic, and cover food and drinks when not eating. Use a straw when drinking to avoid a nasty surprise – it does happen. Cover trash cans and keep them as far away as possible from outdoor eating spots. Empty and clean them often.

5. Don’t swat: Sudden, quick movement makes wasps more aggressive.

6. Report a sting: Notify supervision if you are stung. Even people who have been stung repeatedly with only “normal” itching and swelling can develop a sudden severe allergy. Wasps and hornets are creative in their nesting sites. These can be in ground, under pallets, in any hole, under eaves or in trees.
The F-35 program has accomplished the final developmental test flight of the System Development and Demonstration phase of the program. The F-35 Integrated Test Force is based at Edwards Air Force Base, California, and Naval Air Station Patuxent River, Maryland.

"Completing F-35 SDD flight test is the culmination of years of hard work and dedication from the joint government and industry team," said Vice Adm. Mat Winter, F-35 Program executive officer. "Since the first flight of AA-1 in 2006, the developmental flight test program has operated for more than 11 years mishap-free, conducting more than 9,200 sorties, accumulating over 17,000 flight hours, and executing more than 65,000 test points to verify the design, durability, software, sensors, weapons capability and performance for all three F-35 variants. Congratulations to our F-35 test team and the broader F-35 enterprise for delivering this new powerful and decisive capability to the warfighter."

The final SDD flight occurred April 11, 2018 at Naval Air Station Patuxent River, Maryland, when Navy test aircraft CF-2 completed a mission to collect loads data while carrying external 2,000-pound GBU-31 Joint Direct Attack Munitions and AIM-9X Sidewinder heat-seeking missiles. From flight sciences to mission systems testing, the critical work completed by F-35 test teams cleared the way for the Block 3F capability to be delivered to the operational warfighter. More than 1,500 vertical landing tests on the F-35B variant. The developmental flight test team completed 183 Weapon Separation Tests; 46 Weapons Delivery Accuracy tests; 33 Mission Effectiveness tests, which included numerous multi-ship missions of up to eight F-35s against advanced threats.

"The F-35 flight test program represents the most comprehensive, rigorous and the safest developmental flight test program in aviation history," said Greg Ulmer, Lockheed Martin’s vice president and general manager of the F-35 program. "The joint government and industry team demonstrated exceptional collaboration and experience, and the results have given the men and women who fly the F-35 great confidence in its transformational capability."

Developmental flight test is a key component of the F-35 program’s SDD phase, which will formally be completed following an Operational Test and Evaluation and a Defense Department decision to go into full-rate aircraft production. While SDD required flight test is now complete, F-35 flight testing continues in support of phased capability improvements and modernization of the F-35 air system. This effort is part of the Joint Program Office’s Continuous Capability Development and Delivery framework, which will provide timely, affordable incrementally warfighting capability improvements to maintain joint air dominance against evolving threats to the U.S. and its allies. With stealth technology, advanced sensors, weapons capacity and range, the F-35 is the most lethal, survivable and connected fighter aircraft ever built. More than a fighter jet, the F-35’s ability to collect, analyze and share data is a powerful force multiplier that enhances all airborne, surface and ground-based assets in the battlespace and enables men and women in uniform to execute their mission and return home safe.
By Airman 1st Class Clayton Wear

VANDENBERG AIR FORCE BASE, Calif. (AFNS) – Local elected officials, key Vandenberg Air Force Base leaders, base affiliates and local media came together for the 28 megawatt solar photovoltaic array dedication, April 10 at Vandenberg AFB.

With a ceremonial switch in the fore-ground of the stage, representatives from SunPower, Defense Logistics Agency Energy, Vandenberg Air Force Base, and the Secretary of Air Force Environment, Safety and Infrastructure came together, each awaiting their turn to approach the podium.

“This is a really big event for the base, and for the community as well,” said Col. Gregory Wood, 30th Space Wing vice commander. “This solar farm represents a partnership and ability for us to explore renewable and clean energy for the base. What you see around you is capable of producing one third of all the power to this largest Air Force base that we have, so that we can continue our mission? Power systems provide that kind of resilience. If we were to be separated from the power grid in some way, shape or form, how would we be able to recover from that to continue our mission? Power systems like this provide that kind of resilience. The second thing we care about is cost. We have chumped up a little bit. It’s not all about saving money, it’s all about resiliency, but at the same time we can’t just pay whatever it takes to make that happen. Third thing from this Air Force perspective is that we are interested in clean power with a focus on renewable energy.”

Through the lens of these three focal points, the solar array is now a key provider of base power. “We understand the importance of energy when it comes to military operations and a need for a reliable and resilient power on a military installation,” said Frank Rechner, deputy director of supplier operations for Defense Logistics Agency Energy. “We are well aware that energy diversification is key both in operational and facility environments. As of January this large scale 28 megawatt direct current solar array became fully operational and is producing electricity. This is the largest solar array project in which all energy is produced and consumed by the Air Force.”

To conclude the dedication, each representative took an equal grip of the switch to officially signify the completion of the project. Joined by a SunPower subject matter expert, the group finished their visit with a tour of the newly installed solar panels to see, firsthand, the scale of this project.

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By Tech. Sgt. Robert Barnett

WASHINGTON (AFNS) – Vice Chief of Staff of the Air Force Gen. Stephen Wilson emphasized Airmen will continue leading the way in preparing for the future of war and highlighted the importance of speed, connectivity and innovation during the 2018 Future of War Conference April 9 in Washington, D.C.

Wilson said the goal is for the Air Force to be the best armed service to fight future conflict, deter, defend and win any future fight. The service is looking for new ways to do business and accelerate the transfer of ideas from the lab bench to the flight line to increase lethality and provide the joint force a technological advantage.

“Industrial-age speed won yesterday’s war. Digital-age speed will win tomorrow’s war,” he said. “It’s going to take all of us working together across academia, across government and across industry – we’re going to have to com- pete to win. That’s where I think we can come together.”

Wilson noted the general nature of war will not change, but the speed of connectivity will. The Air Force must be able to collect and decipher information and produce dilemmas for our adversaries at a rate they can never keep up with. It is not just speed in decision-making. It is also speed in budgeting, contracting, acquisition, defending the homeland and carrying the high ground in air and space. “Space is a contested domain that provides many capabilities to the nation, including indications and warning, missiles, communications, GPS and more – it must be defended,” Wilson said. “The service is building a defendable architecture to maintain the U.S. advantage in space. Air Force leaders are training space operators and working to speed up the acquisition process for building capabilities, partnering with industry; enabling milestone decision authorities and other transaction author- ities, all to advance space capabilities faster.”

Mission success starts and ends with people, he continued. “We start with really good people,” Wilson said. “We then make sure they’ve got the right education, training and experience; they’re confident and proud of what they do; they’re personally and professionally fulfilled. And, when we do that, we get mission success.”

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Final team wins $25 Services Gift Card AND
return as defending champ next month

ATTENTION

Drivers must follow Air Force requirements when operating a vehicle on Arnold Air Force Base

SEATBELTS ARE REQUIRED TO BE WORN

ANYONE OPERATING OR RIDING IN A MOTOR VEHICLE ON A MILITARY INSTALLATION ARE REQUIRED USE SEAT BELTS OR THE PROPER RESTRAINT SYSTEMS

Air Force Instruction 91-207

NO CELL PHONE USAGE ALLOWED WHEN DRIVING

OPERATORS OF MOTOR VEHICLES ON AN AIR Force INSTALLATION WILL NOT USE HAND-HELD ELECTRONIC DEVICES UNLESS THE VEHICLE IS SAFELY PARKED.

By Barbara McGuire

TULLAHOMA, TENN. – The May 3 meeting of the AEDC Woman’s Club will be at the Arnold Lakeside Center. The guest speaker will be Billy Kaufman, owner and operator of the Short Mountain Distillery in Woodbury, Tennessee.

Billy is a gardener, farmer, author, distiller and restaurateur living in Cannon County. Billy was instrumental in the creation of The Tennessee Whiskey Trail as well as other initiatives to help distillers in Tennessee. He serves on the board of the Arts Center of Cannon County and considers himself a graphic artist in waiting. He will be discussing the history of liquor in Tennessee, legal challenges, the Tennessee Whiskey Trail, Tennessee bourbon and the Distillers Guild.

The social hour of the April 5 meeting starts at 9:30 a.m., with the business meeting and program beginning at 10 a.m. Reservations must be made no later than noon April 26. Make reservations by calling (931) 393-2552 or (931) 636-4152.

Table donations will go to Hospice of the Highland Rim Foundation.

Will Rabb, a former AEDCWC scholarship recipient, spoke at the April 5 Club meeting where six students received scholarships. Rabb spoke about his winning a scholarship from the AEDCWC in 2007, his education at the University of Tennessee - Knoxville, working with ESPs in Louisiana, and working at the Cowan radio station sports network.

AEDC Commander Col. Scott Cain and his wife Michelle presented each scholarship recipient with a certifi- cate.

This year’s scholarship award winners from Coffee County Central High School are Michelle Dong and Caroline Hitchcock. Michelle is the daughter of Zia Zheng and Caroline Hitchcock. Roommate Dong wants to attend Belmont University with plans to pursue a pre-med and a business degree before attending medical school to acquire his medical doctoral degree. Hitchcock is the daughter of Joanne Dunne of Manchester and Wayne Hitchcock of Bell Buckle. Hitchcock plans to attend Tennessee Technological University in Cookeville where she will pursue a degree in civil engineering.

The scholarship award winner from Tullahoma High School is Oura McCloud, daughter of Frank and Leanne Turpin of Dickson. McCloud will study business administration with a concentration in music management at Belmont University in the University of Tennessee - Knoxville. Clemens, daughter of Mrs. Claire Clements of Tullahoma, will attend the University of Tennessee - Knoxville, majoring in marketing and economics with a concentration in international business.

The Franklin County High School scholarship recipient is Leanne Turpin, daughter of Frank and Leanne Turpin of Dickson. Turpin will attend Tennessee Technological University in Cookeville where she will pursue a degree in mechanical engineering. The scholarship award winner from Huntland High School is Emily Owens, daughter of Christopher and Karen Owens of Winchester. Owens will attend a university to pursue a B.S. in nursing and a master’s degree to become an anesthetist.

The AEDCWC meeting table donations of $115.00 went to St. Jude.

The AEDCWC meetings are open to the public and provide the opportunity to meet the members and become a member. You don’t need to have military connections or be involved with Arnold Air Force Base to visit and become a member.

For information about the AEDCWC, call the membership chairman at (931) 455-3569.

Disclaimer: This is a private organization which is not part of the Department of Defense or any of its components and has no governmental status.
Fighter pilot takes inspiration to new heights

By Emerald Ralston

55th Air Force Wing Public Affairs

J O I N T B A S E L A N G L E Y - E U S T I S , Va. (AFNS) – “I hear at times in my usual and about in daily life, ‘do they let women fly?’” said Lt. Col. Cheryl Buehn, the only female instructor pilot in the 71st Fighter Training Squadron. “I don’t think they realize they’re asking a female flying pilot. So I take a breath and I say, ‘Absolutely. They let women fly fighters, tankers, RFAs, everything.’ Both men and women fly a lot of different platforms, and everyone is important to the fight right now.”

Buehn has flown a number of aircraft in the Air Force, from the F-16 Fighting Falcon, T-38C Talon to the T-11 Battlefield Airborne Communications Node. She currently flies the T-38A in an adversary role to help F-22 Raptor pilots train for combat. She said she loves the opportunity to challenge outdated stereotypes and inspire younger generations, including her own children.

“My kids used to think that all pilots were soldiers since my husband is a pilot, too,” she said. “They’d ask (other parents) and say ‘what airplane do you fly?’ It was the coolest thing that my kids believed that anyone could be a pilot.”

Buehn’s interest in flight came in part from her love of a challenge and competing things other people said were too difficult. “My first true interest and drive in becoming a pilot began with my fascination with the Air Force Academy,” she said. “There were a few really unique and interesting aviation programs in which I was able to participate.”

The expectation at the Academy is to develop pilots, but she said the real excitement came from earning the chance to attend the training program she wanted most—the Euro-NATO Joint-Jet Pilot Training, where NATO allies send their candidates to develop them into fighter pilots.

“One of the newer aspects of that program is that you have representatives from other countries all together in the same class,” she said. “They’re proving their worth to represent their nation in a pilot training program that will serve throughout their professional aviation career.”

Buehn said being a part of this rigorous pilot training program further proved to her that tenacity, drive, determination and true passion were the main factors that contributed to success. It also showed her that the airplane is truly the greatest equalizer—pilot, race or background—none of those things matter in the cockpit.

There are different minorities throughout all facets of the Air Force, so I think the biggest factor you might have,” Buehn said. “You’re able to envision what you want to do, said Buehn. “You’re able to envision the future. I do the same job as your reality. I do the same job as the people that look like you doing something that you want to do,” said Buehn. “You’re able to envision that your dream can be fulfilled, I do the same job as my colleagues, but maybe I’ll inspire the next young aviator who didn’t make it or even see the equal opportunity, and that is important.”

Buehn credits those who came before her who made it possible for her to be an Air Force fighter pilot. “My first true interest and drive in becoming a pilot began with my fascination with the Air Force Academy,” she said. “There were a few really unique and interesting aviation programs in which I was able to participate.”

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