Testing at AEDC assists in further integration of the Advanced Short Range Air-to-Air Missiles

In February, missile manufacturer MBDA announced that the first Advanced Short Range Air-to-Air Missiles were delivered to the United States for integration and testing on the F-35 Joint Strike Fighter Lightning II. Store separation testing of the ASRAAM, or AIM-132, was conducted in the 4-foot transonic aerodynamic wind tunnel at the Propulsion Wind Tunnel facility at AEDC. The objective of the test was to investigate the separation characteristics of several armaments which included the AIM-132 as well as the AIM-9X, AIM-120C, and AIM-154 Joint Stand-off Weapon. (GDU-12 (1,000-pound Joint District Attack Munition and Paveway IV, from internal and external weapon stations of the Short Take-off and Vertical Landing and Carrier Variant versions of the JSF aircraft). Test data included store freestream, pseudo-freestream (i.e. aircraft model in tunnel), aerodynamic grid, captive trajectory and captive loads. Results from the test have supported internal and external weapons separation characterizations, evaluations and structural analyses for various aircraft weapons loadings.

According to the recent release by MBDA, the ASRAAM is intended for the Royal Air Force and Royal Navy’s F-35B’s and will provide Britain’s Lightning II’s with a highly capable, passive, and reactive weapon system. Separation testing of the ASRAAM, or AIM-132, was conducted in the 4-foot transonic aerodynamic wind tunnel at the AEDC Propulsion Wind Tunnel facility in 2008. Pictured is a test model of the F-35 with AIM-132 separating from the weapons bay. (AEDC photo)

AGM-154 Joint Stand-off Weapon, GDU-12 (1,000-pound Joint District Attack Munition and Paveway IV, from internal and external weapon stations of the Short Take-off and Vertical Landing and Carrier Variant versions of the JSF aircraft). Test data included store freestream, pseudo-freestream (i.e. aircraft model in tunnel), aerodynamic grid, captive trajectory and captive loads. Results from the test have supported internal and external weapons separation characterizations, evaluations and structural analyses for various aircraft weapons loadings.

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There’s always a cost

By Lt. Col. Tim Parcell
28th Operations Support Squadron commander

SCHREIER AFB, Neb. – The manager for AF 35-150 (AFS 35-150) – My 5-year-old son, Tim, wanted a skateboard for Christmas. We had talked it over many times and he was excited about it.

A couple days later, we were on the way to his piggy bank and asked if we could go to the store to see what was in stock. We were there about 15 minutes before closing, and when we got out of the car, he said, “Mom, I just assumed the hot task was mine.”

When we go to the front office, it’s easy to say, “I need you to do this,” but it is not what my son wanted. He went home with the full picture of what was needed, took it home, and told his mom, “It takes some work, but it is not what I want.”

The opposite of “no” is possible. The opposite of “no” is sometimes something not everything is possible. In this case, it was not possible to obtain a skateboard.

When we acknowledge what we can’t do and how it’s going to affect us, we can figure out what’s important. It’s important to go that route first, then if the situation isn’t dire, we can move forward. I encourage everyone to keep reminding myself that the simple in the moment.

As leaders and supervisors, we must understand the need to distinguish between critical and non-critical tasks. We must understand the need to make informed decisions. If we do not get it right, it will impact our mission, vision and priorities.

As Air Force members, we must understand that we are always there. We are always there. There are some people who may not understand that because they don’t understand the leader’s chain priorities, but it doesn’t end there.

As Air Force members, we must understand that we are always there. There are some people who may not understand that because they don’t understand the chain of command. We must understand the need to communicate clearly and open.

There’s an opportunity here to be honest and to communicate clearly and open.

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No ‘mower’ accidents

By AEDC Safety

Whether you find lawn care a boring or relaxing task or a dreaded chore, taking proper precautions can prevent these activities from ending with a room visit. According to the Centers for Disease Control and Prevention, lawn mowers are very easy to operate. Risks include:

• Results indicate 79 percent of consumers polled don’t wear, or rarely wear, ear protection, 44 percent have had contact with mower parts by running over an object, 24 percent said they had cut themselves while moving and 12 percent say they have cut their fingers while cutting. Considering these statistics, it’s no wonder why every year thousands of accidents happen. So, serious enough to require emergency room treatment.

• There are simple safety procedures before operating mowers, leaf blowers, chain saws, tillers or other outdoor maintenance tools to ensure safe, productive results:

  1) Wear properly fitted shoes. Close-fitting clothes and pants (without pant legs are shoes). Wear ear protection that muffles damaging sounds you can’t hear. Remember, sounds of loud noise are a sound that’s acceptable for proper job performance.
  2) Never refuel equipment while it’s running. At a minimum, refuel equipment in a well-ventilated area at least 20 minutes after the equipment has cooled down. Don’t refuel after you stop. Use a California approved gas, and cover open gas cap with a screw on cap.
  3) Turn off the engine when fueling.
  4) Remove any rocks, sticks, toys, hoses, sprinklers or other things that may be the common causes of yard work injury. Remove debris is the most common cause of yard work injury. Remove debris is the most common cause of yard work injury. Remove debris is the most common cause of yard work injury.

WINTON (from page 1)

I am doing something different each day. From law enforcement to habit management work to administrative duties, there is a wide variety of duty at the United States Air Force. I have been married for five years and have been blessed with a healthy family. A family with a foster child in the home, resides on the border of a state in an outport property.

The performance of the Be Active physical activity challenge.

The CyberPatriot VIII program marked a 55 per- cent increase in team regis- tration in this competition year and the CyberPatriot team from Tullahoma Com- mand received its highest ranking in the state of Tennessee.

CyberPatriot VIII was ranked second in the state in the All Service Plati- num category and Tullahoma’s team ranked second in the All Service Gold category. During the Cy- berPatriot competition, the teams were presented with finding and solving security vulnerabilities in simulated computer networks. Within the United States and U.S. territories, approximately 150 teams from the national competition which began with practice rounds in October 2015 and progressed to a se- ries of online qualifying rounds.

Teams were cited in their awards for their outstanding technical skill, problem solving and teamwork. The team award certificates were signed by Bernard Shook, CyberPatriot national commissioner.

The growth and ex- pansion of the CyberPatrio- tot program has been au- tomated and we couldn’t be more proud to be in-AEDC Safety

local CyberPatriot teams receive an overall outstanding technical skill, problem solving and teamwork. The team award certificates were signed by Bernard Shook, CyberPatriot national commissioner.

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By Tanya Bryan
Arnold Services Division

Rock-It Run comes to AEDC Arnold Golf Course May 21

AEDC Services is excited to announce Rock-It Run, a full day of activities for all ages, coming to Arnold Golf Course 11:30 a.m. to 6 p.m, May 21. This day includes a kid’s run and a 5K or 10K run plus other activities such as footgolf, Frisbee golf, cornhole, paintball, and for a small fee of $5 or $8, depending on age, Footgolf on Arnold Golf Course. Footgolf is similar to golf rules but played with a soccer ball. There will also be food and beverages available for purchase with Utopia rounding out the day with live music.

This day of fun is open to the public with something for runners and non-runners alike. The kid’s run is part of the Armed Forces America’s Kids Run for ages five to 13. Held every May in recognition of Armed Forces Day, this event is supported around the world. There is no entry fee for this event and everyone registered will receive an event t-shirt.

Registration is through www.amerikidsrun.org. From the home page, select the registration link on the left then select America’s Kids Run from the drop down and click on Get events. Check in begins at 11:30 a.m. with the run starting at noon. The 5K and 10K runs are for ages 14 and older with first place medals for both men and women in five age divisions – 14-19, 20-29, 30-39, 40-49, and 50 and older. Registration costs range from $25 to $38 depending on which race and how early you register. Everyone registered by May 1 will receive a moisture-wicking race shirt with logo. Include your shirt size during registration.

To register for the 5K or 10K go to www.amerikidsrun.org and search Tullahoma, ‘TN then click on Register. You can also click on the event title to get more details about the event, including course maps. Check-in opens for the 5K and 10K will be from 12:30 to 1:30 p.m. with a simultaneous start at 2 p.m. The course will be a closed and wooded roadway, which includes terrain of concrete, pavement, and packed gravel. The America’s Kids Run will be a 1/2 mile to 2 miles depending on age. The 5K will be once around the full course with the 10K going around twice. Times will be tracked electronically with the assistance of RACE Nashville and their Jaguar Timing System. This timing system uses a disposable chip attached to the runner’s race bib. Live web results are available and there will be a kiosk on site where runners can print a receipt of their finish time.

After seeing the race, RACE Nashville race director Kenneth Northcutt said, “This is the kind of race course runners will love. It’s close to traffic, it’s a wooded setting. Just beautiful.”

Awards will be presented for the 5K and 10K runs beginning at 3:30 p.m. Once the 5K winners are over Utopia will once again take the stage to finish out the event.

Three-time GigMasters Best of the Year award winner, Utopia specializes in legendary old school R&B, dance, music, modern hits, selected classics, rock, jazz and blues standards delivered with a distinctive, dynamic sound. Utopia front man J.T. Radley said, “We are excited about playing this one. We are excited to be bringing quality entertainment to add on to a great new event.”

Everyone is invited to enjoy the band, food, beverages and other activities throughout the day whether a runner or not. Services encourages runners to bring the whole family to support each other during the run events. Services also hopes that others will come just for the fun.

For questions, contact the Rock-It Run organizer at 931-454-3367, Services Marketing manager at 931-454-3126, or Services Commercial Sponsorship coordinator at 931-454-3171. Opportunities are still available for this and many other Services events. Information is also available on searching #rockitrun.

Rock-It Run Schedule of Events:

11:30 a.m. Event begins – activities, food, beverages
5K and 10K registration/check-in opens

Noon

Kids Run begins
12:30 p.m. 5K and 10K registration/check-in opens
1-1:20 p.m. Kids Run ends with awards/photos
1:30 p.m. Final check-in call for 5K and 10K
2 p.m. 5K and 10K begin
3:30 p.m. Awards and photos for 5K and 10K
6 p.m. Event ends

Eliminating sexual assault in the Air Force requires Airmen at all levels to be engaged all year, not just April.

Airmen are expected to embody the Air Force Core Values every day, whether on or off duty, uniformly dressed or not.

The Air Force has more than 110 SARCs, 70 full time 24/7/365 victim advocates, 50 special victims advocacy training and special advisors and junior counselors who dedicate 365 days/year to supporting victims and speaking sizer. The Air Force is also in the process of having 95% specified for primary prevention of violence across the Air Force. These dedicated helping agents are supported and empowered every day by 600,000 Total Force Airmen and their families.

Airmen are the Air Force’s best asset in preventing sexual assault. Professional, dedicated Airmen who take care of their Wingman every day of the year will help eliminate sexual assault from our ranks.

Commanders are charged with setting a professional atmosphere and enforcing the standards of the Air Force’s professional service at all times.

Survivors of sexual assault deserve the support of the Air Force and their Wingman every day.

AS AN AIR FORCE CITIZEN, WHERE CAN I FIND HELP?

Calling a Non-Direct Line

Hollering Center: 1-800-252-9555

AF Help Desk: 1-800-252-9555

Airmen help Airmen

At your Air Force Installation

At your Air Force Academy

At your Air Force Medical Center

At your Air Force Civil Engineering Center

At your local military justice

If you are in an emergency situation contact your local law enforcement or military police immediately.

#notjustapril

#DefendingAirWives

Sexual Assault Awareness & Prevention Month 2016
U.S. Air Force B-52 Stratofortress aircraft from Barksdale Air Force Base, La., arrived at Al Udeid Air Base, Qatar, April 9 in support of Operation Inherent Resolve, the operation to eliminate the Islamic State of Iraq and the Levant and the threat they pose to Iraq, Syria and the wider international community, and as needed in the region. The B-52 offers diverse capabilities including the delivery of precision weapons. (U.S. Air Force photo/Tech. Sgt. Nathan Lipscomb)

Airmen assigned to the 20th Expeditionary Bomb Squadron at Barksdale Air Force Base, La., inspect the bomb bay of a B-52 Stratofortress after arriving at Al Udeid Air Base, Qatar, April 9 to support Operation Inherent Resolve. The 19-nation air coalition consists of numerous precision strike aircraft and the B-52s will bring their unique capabilities to the fight against the Islamic State of Iraq and the Levant. The B-52 is a long-range heavy bomber that can perform a variety of missions including strategic attack, close-air support, air interdiction and maritime operations. (U.S. Air Force photo/Tech. Sgt. Nathan Lipscomb)

The coalition struck about 459 logistics buildings housing vehicle-borne improvised explosive devices, 776 tons of chemicals, and 1,341 mortar systems, 1,973 livestock herds, 1,341 livestock pens, 1,341 livestock feed, and 1,341 livestock feed storage areas. (U.S. Air Force photo/Rick Goodfriend)

By Air Forces Central Command Public Affairs

AL UDEID AIR BASE, Qatar (AFNS) – U.S. Air Force B-52 Stratofortress aircraft from Barksdale Air Force Base, Louisiana, arrived at Al Udeid Air Base, Qatar, April 9, in support of theater requirements and Operation Inherent Resolve, the operation to eliminate the Islamic State of Iraq and the Levant and the threat they pose to Iraq, Syria and the wider international community.

“The B-52 will provide the coalition continued precision and desired airpower effects,” said Lt. Gen. Charles Q. Brown Jr., the commander of U.S. Air Forces Central Command and Combined Forces Air Component.

“As a multi-role platform, the B-52 offers diverse capabilities including delivery of precision weapons and the flexibility and endurance needed to support the combatant commanders’ priorities and strengthen the coalition team.”

The 19-nation air coalition consists of numerous strike aircraft and the B-52s will bring their unique capability to the fight against ISIL.

The B-52 is a long-range heavy bomber that can perform a variety of missions including strategic attack, close-air support, air interdiction and maritime operations.

Crews will be available to carry out missions in both Iraq and Syria as needed to support air tasking order requirements.

“The B-52 demonstrates our continued resolve to apply persistent pressure on ISIL and defend the region in any future contingency,” Brown said.

This deployment is the first basing of the B-52s in the U.S. Central Command area of responsibility in 26 years. The B-52s were based in Saudi Arabia supporting Operation Desert Storm. The B-52s were last flown operationally during Operation Enduring Freedom in May 2006, and during Exercise Eager Lion, a U.S.-CENTCOM-led multilateral exercise in Jordan, in May 2015.

The coalition conducted more than 35,000 air power missions in support of OIR. Since the beginning of the operation, the
The synthetic oil would be more environmentally friendly because it is plant-based, which aligns with the Air Force’s initiative to use more sustainable materials and resources. “From the Air Force’s perspective, we are looking for an alternative fuel, more cost-effective and environmentally conscious effort,” Villara said. “Not having proper treatment could make or break the process.”

According to Handy, the bio-based oil is a full-synthetic oil produced from an agricultural byproduct including canola seed, soybean and synthetic polymers. “Bio-based motor oils are a huge drive in that they are providing new markets to the seed growers,” he said. "These manufacturers are looking for additional outlets for their products and are creating stimulus jobs in the United States," he said. "The oil developed is very stable and can withstand any change in the performance of any of the vehicles because they are all running on synthetic fuels," he said. "For the testing phase, Yallaly, the project manager, said that you are buying more green, sustainable products.” Handy said.

According to Brian Yallaly, the project engineer, providing samples to a third-party lab will determine how well the oil is sustaining and whether or not more miles can be added to the oil’s efficient life. The vehicles being tested at Malmstrom AFB will all be under command of the 341st LRS vehicle management flight for oil changes.

Malmstrom Air Force Base, Mont. (AFNS) – Malmstrom Air Force Base is one of four bases across the service force where the Air Force is testing the new bio-based synthetic oil in its vehicles.

â€œThis is being sponsored by the DLA and Office of the Secretary of Defense, and we have a select number of bases that we have chosen random vehicles from to participate in this project,â€ said Senior Master Sgt. Joel Villara, a 41st VSCOS team lead.

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Malmstrom mechanics testing new bio-based vehicle oil

By Airman 1st Class Michael Schulz, a 341st Logistics Readiness Squadron vehicle management flight mechanic, changes the oil of a government vehicle March 22 at Malmstrom Air Force Base, Mont. Schulz was one of two Airmen tasked with changing the oil of six vehicles which will be testing a new bio-based synthetic oil which could potentially help the Air Force’s initiative to use more sustainable materials and be environmentally conscious. (U.S. Air Force photo/Airman 1st Class Megan M. Reeves)
Arnold Outdoor Recreation recognizes AEDC commander spouses through boat naming

By Tanya Bryan
Arnold Air Force Base Services

Services Outdoor Recreation at Arnold Air Force Base has made a tradition of naming boats after current or previous commander’s spouses.

Two new 22-foot pontoon boats were added to the ODR fleet with an official christening ceremony March 30 at the Arnold Lakeside Center. All base employees were invited to attend and witness as Karen Todaro, wife of current AEDC Commander Col. Rodney Todaro, and Theresa Toth, wife of former AEDC Commander, retired Col. Raymond Toth, were honored and toasted as the most recent namesakes.

Guests participated at the ceremony in raising their glasses to toast to the Karen T. and the Theresa after hearing script of the tradition of vessels being named after women and referred to as “she” when set to water. The narrative continued, on a more lighthearted note, with more specific relevance to ODR rental boats.

“The moods of the waters of Woods Reservoir can be many, just like the Outdoor Rec staff that works here, from tranquil to rough. We ask that these vessels, and their caretakers, be given the strength to carry on and the foresight to remember to change the oil in a timely manner. May their rudders be strong and may they keep out the pressures of Woods Reservoir.

“We also ask the sailors of old and the mood of the lake to accept the Karen T. and the Theresa, to help them through their passages and allow them to return with their crew safely, which will help avoid a lot of safety paperwork for us,” according to the narrative.

With the crowd’s final toast of “To the Karen T. and the Theresa, to Woods Reservoir to the sailors of old, and to the lake,” it was time to christen the boats with the traditional champagne over the bow.

Being environmental stewards, the champagne was poured over the bow rather than the classic tradition of breaking the bottle as to prevent broken glass in the area.

The event concluded with a social at Arnold Lakeside Center where all present could celebrate with these ladies, the newest celebrities of Woods Reservoir.
By Tech. Sgt. Joshua DeMotts

The military’s ability to accomplish its missions – whether executing a day’s fight or training for future ones – is dependent on electricity that powers installations. The Army and Air Force have identified energy resilience as a critical objective, advancing the capability for their systems, installations, and personnel to respond and recover from unexpected disruptions.

The Air Force recently established its Office of Energy Assurance, which will develop an integrated facility energy portfolio. The Army’s Energy Initiative Task Force was established in September 2011, and became an enduring organization, the Office of Energy Initiatives, in October 2014. The OEI serves as the central management office for implementing large-scale renewable and alternative energy projects, while leveraging private sector financing.

Now, both offices will share support staff, business processes and best practices.

The services formalized this partnership April 6 during a ceremony at the Pentagon. The memorandum of agreement, signed by Katherine Hammack, the assistant secretary of the Army for installations, energy and environment; and Miranda Ballard, the assistant secretary of the Air Force for installations, environment, and energy, shows the importance both services place on clean, reliable and affordable energy.

Hammack stressed this partnership was vital for the Defense Department and would continue to push the Army’s energy goals.

“The Departments of the Army and the Air Force share a common commitment to securing our installations with energy that is clean, reliable and affordable,” Hammack said. “I am pleased that through this agreement, we can share lessons learned and leverage the relationships we have developed with government, industry and utilities for the benefit of both our services.”

See ENERGY, page 11
While the establishment of the Air Force OEA cemented the Air Force’s focus on energy resiliency and strategic energy agility, Ballentine said this partnership would advance that capability.

“This Army-Air Force partnership will accelerate our goal of providing mission assurance through energy assurance,” Ballentine said. “The Air Force, Army, and Navy fight the fight together; we are one joint force, and our jointness is what makes us formidable around the world. Installation energy projects are another area where a joint-approach and strong collaboration can help us do more, faster.”

Lt. Gen. John Cooper, the Air Force deputy chief of staff for logistics, engineering and force protection, also signed the memo and said the Air Force is a globally networked force with critical missions and operations that are reliant on access to energy to accomplish the mission.

“We execute almost all our missions from our air bases, so building partnerships like this will ensure our resources and approaches are focused on mission assurance and resiliency,” he said.

Lt. Gen. David Huber, the Army assistant chief of staff for installation management, also signed the memo on behalf of the Army.

“This agreement is a framework for collaboration between the Army and the Air Force on policies, procedures and partnerships that support our energy missions,” Huber said. “We are excited to work with the Air Force in this effort. This partnership will identify and expand potential renewable energy opportunities across Army and Air Force installations.”

According to the memo, the partnership provides a framework for cooperation and support in the development of renewable energy projects, establishes the expectations and requirements of each service, and demonstrates both services’ focus on achieving energy assurance.