Space is a harsh and unforgiving environment, one that exposes satellites and space craft to powerful radiation, extreme temperatures and shock of other potentially destructive forces and phenomena.

This is why it is so important to rigorously test satellite, space vehicle and launch systems, materials and components before flight.

An essential aspect of ground testing in accuracy, and that is where Arnold Engineering Development Center’s Precision Measurement Equipment Laboratory (PMEL) comes into the picture.

“Part of our job at the PMEL is to calibrate cryogenic sensors for testing in space chambers, rocket motor test cells and other environments testing cryogenics,” said Dave Compton, director of Arnold’s PMEL. “We have a cryostat for that purpose and a vacuum chamber.

So, what is a cryostat and how does it contribute to the mission?”

According to Compton, a cryostat is a vacuum, similar to one found in a vacuum flask or thermos, used to maintain extremely cold temperatures.

At AEDC, cryostats are used to subject sensors that measure temperatures in the cryogenic range to precise temperature loads for calibration.

These sensors measure the temperature of fluids and gases that are used in hypersonic test cells, vacuum space chambers and rocket test cells to simulate conditions of space or in the case of rocket engine testing, fuel for launch.

Clark, an ATA engineering specialist in the test IT Branch, recalled how PMEL used their cryostat to calibrate sensors for testing rocket engines with cryogenic fuel in the J-4 liquid-propellant rocket test facility.

“In that case, the sensors were Reuss—those sensitive Temperature Devices (RTDs) and they were used to measure the temperature of the propellant, liquid hydrogen and liquid oxygen (LOX),” he said. “Measure- ment accuracy of the temperatures of these propellants is critical to the test program because the density of the propellants is very dependent upon the temperature and pressure of these fluids,” he explained.

“The density of the propellant factors directly into the calculation for the mass flows rates of the propellants and the mass flow rates of the propellants are direct contributors to the measurement of the performance of the rocket engine. Inaccuracies in the measured temperature would lead to inaccuracies in the engine performance, which could ultimately lead to payloads inserted into improper orbits.”

PMI chapter honors ATA

By Shawn Jacobs
AEDC Public Affairs

Aerospace Testing Alliance (ATA) is being honored for encour-aging continuing education among its project managers. The Nashville chapter of the Project Management Institute (PMI) has named ATA Project Sponsor of the Year for 2009.

PMI is widely recognized as one of the foremost organizations in the area of project management, providing monthly education programs and allowing project managers from various disciplines to interface with each other.

“There are several components of the annual Corporate Sponsor of the Year award that development is a big factor, and, over the course of 2009, ATA personnel demonstrated they were committed to the professional development of our Project Manager, Chapter President Charles Lebo said.

“When you have a 33-hour course,” according to Sharon Dye, deputy director of Projects and Design Engineering. “You have to have 200 hours?”

And we realize that those achieving PMI certification are probably going to be the ones that will continue to advance within the Project Management organization,” Lebo said.

See PMI, page 7

Global Hawk engine at AEDC

By Greg Holcomb
AEDC balance calibration engineer, watches as Michael Sain, ATA instrument technician for PMEL, prepares to lower a metal sleeve over the cryostat to allow them to bring the temperature down to conditions similar to those found in space. Another cryogenic sensor that has been calibrated to National Institute of Standards and Technology standards is installed in the cryostat to make a proper comparison. (Photo by Rich Goodheart)

The Rolls-Royce AE3007H growth engine, the power plant for the RQ-4 Global Hawk unmanned aircraft system (UAS), is now being tested at AEDC under the eye of 776th Test Squadron. Project Manager 2nd Lt. Jamie Gurganus, and ATA Project Engineer Andrew Jackson. The engine has upgraded turbine hardware and an improved combustor that, if validated by this engine, will enable the engine to have greater service life. (U.S. Air Force photo by Rich Goodheart)

March raises money for dedication plaque

Arnold’s Company Grade Of- ficers (CGO) donated weighted suckers and marched on April 9 to raise money for a memorial plaque.

Nineteen enlisted officers and NCOs participated in the March to Remember, carrying a total of 528 pounds for 4.6 miles, followed by 180 pushups.

“Thanks to everyone’s support the CGO March to Remember was a huge success,” said 2nd Lt. Jason Lackey. “We raised $1,278 for the dedication plaque for the F-16 and, thanks to the Air Force Sergeants’ Association, we will meet our goal of $1,700.”

To reach the money needed, the CGO asked sponsors to pay $2 per pound of weight carried, up to 35 pounds per Airmen. Any additional money collected was converted into “pucks-plaques.”

The plaque will be in honor of our Vietnam veteran, Hap Lipps, who died when the F-16 he was piloting crashed during a training mission near Tyndall AFB out- side of Mobile, Spain, Dec. 5, 1986.

General Hapke, the most senior veteran to die while flying an F-16, commanded the 16th Air Force at the time of his death and was a Vietnam veteran.

The memorial plaque is sched- uled to be installed in July in front of the F-16 display area outside Gate 2. Of the six aircraft on display at Arnold, the F-16 is the only aircraft that has not been dedicated.

March 9, 2010

Vol. 57, No. 8

Arnold AFB, Tenn.

April 23, 2010

New publisher named

By Shawn Jacobs
AEDC Public Affairs

This issue of High Mach is the first by the newspaper’s new publisher, The Tullahoma News.

This publisher will advertise- ing for the cost of printing, distributing and mailing the newspaper.

“I am excited about this new opportunity to publish the AEDC newspaper, High Mach,” The Tullahoma News Publisher Jeff Lofman said. “I understand the importance of AEDC to our country because of the testing done at the center and its unique facilities. Arnold Air Force Base is also important to the economy of Middle Tennessee.”

High Mach started in April 1945 and became a commercial publication in 1992.

The Tullahoma News is owned by Lakey Publishers, Inc. and began printing in 1881.

“I use that (publishing High Mach) in another way to promote AEDC and the people who work in the world-class facilities,” Lofman said.

Come to publishers website in High Mach, contact Sherry Pollock at 455-4545.

Cryostat. What’s that?

Success or failure can rest on a millisecond

By Shawn Jacobs
AEDC Public Affairs

Cryostat. What’s that?

By Shawn Jacobs
AEDC Public Affairs
Event retreats and what they mean to me

Sheppard AFB, Texas

By Col. Michael Parani

Somehow the idea of how special an event was to me means to me recently.

I had the privilege of attending a Wingman retreat, a non-military training leader and a non-military training wing in the Air Force every Tuesday. I am responsible for assembling a core of 200 Airmen attending training sessions and the final retreat ceremony. This is actually a very busy production. By Col. Michael Parani

Air Force

Smoking Policy

Line in one of three ways: via the AEDC intranet home page, phone or visit the AFB, Arnold AFB, Tenn., 37389.

AEDC Commander

Col. George 'Bud' Day. “It means, "I will do my best to serve and take care of my family than you'll find in a family."

Bob Ebel

24th Air Force

The numbers are stag -

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24th Air Force
People who watch TV shows like “NCIS” or “Law and Order” are accustomed to seeing crime shows that have become a television phenom. In many ways, the television sets the standard to which real-life crime-fighting experts aspire to meet. However, to put the new crime-fighting technology into perspective, said it is important to realize that the technology to analyze crime video evidence and process fingerprints and DNA samples. The Arnold Police Department in Arnold, Missouri, has installed a video forensic analysis system capable of processing and enhancing video and still photography criminal evidence. Margaret Kyne, ATEC systems administrator for the Arnold Police Department, said it is important to put the new crime-fighting asset into perspective. “The average television viewer strictly relies on what they have seen in those so-called TV crime shows, and unfortunately most of the advanced technology schemes the shows tend to portray is unrealistically,” he said. “There is some truth to what they use, but much like TV crime shows, the forensic detective must be ‘stretched’ some to make it more entertaining. On TV, one must clean up the crime scene.” Soldiers and sailors work to put the system to its best use. “We are able to define and clean up the crime scene to make it more realist,” he said, adding, “That is the way “Law and Order” tends to make the most realistic of the TV crime shows.”

Steve Luttrell, Arnold Police Department’s detective, described how the new system works. “Basically what it does is take a video of a crime scene – a robbery, homicide, even a theft – and we have a video we can’t directly make out some of the critical features of a person’s face, a car, a tag number, or a description of the car. We can use this system to enhance that video to clean it up and make the material legible, so we can determine who it is, what color it is, to have evidence for the case.”

Commander signs new charter

The Tennessee Section of the American Institute of Aeronautics and Astronautics (AIAA) will host a luncheon meeting at the Arnold Lakeside Center May 12. Leland Kelley, IT department instrumentation engineer, said the sensors indicate the relative ‘coldness’ of the oxygen, and the relative ‘warmth’ of the nitrogen, at a certain location in the system.

To the critic who claims that maintaining a liquid flow throughout the system, it is important to have a sensor that is known to be good, he said. “The initial calibration is an important indicator that the Resistance Temperature Device (RTD) manufacturer’s specs and will perform as expected before it is installed on the system.”

Kelley said the lab’s role is crucial to efficient and financially sound operations at AEDC. “We rely on the Precision Measurement Equipment Laboratory to ensure we do not put in a bad or deteriorating sensor at any time,” he said. “This can be due to the initial installation when where PMEL did not do an acceptance test on the Resistance Temperature Device (RTD) manufacturer’s specs and will perform as expected before it is installed on the system.”

The Ocean Systems (Dynamic Technologies, Inc.) ClearID forensic video analysis system uses the company’s patented software program “Pattern Remover” to remove background clutter from a photograph of a suspect’s fingerprint on a paper towel. “This particular software and hardware package is one of the most advanced available and should serve Arnold and the community extremely well,” he added. “By the way, “Law and Order” tends to be the most realistic of the TV crime shows.”

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The newly remodeled Medical Aid Station lot was completed Wednesday. The sidewalk and walkway were repaired to comply with Americans with Disabilities Act guidelines and a new canopy was installed over the walkway. The slope of the old walkway was too steep, and there were cracks and unlevel ground. The new walkway provides a safer path to the front door, and additional space for a less rainy take-up of the sidewalk to keep rain out far from the walkway. The slope of the old walkway was too steep, and there were cracks and unlevel ground. The new walkway provides a safer path to the front door, and additional space for a less rainy take-up of the walkway. The slope of the old walkway was too steep, and there were cracks and unlevel ground. The new walkway provides a safer path to the front door, and additional space for a less rainy take-up of the walkway.
Empowerment, competence, acceptance and joy

More than 300 athletes from five counties participated in the events of the 2010 Special Olympics 32nd Summer Games for Tennessee Area 13.

Tullahoma’s Dustin Bell served as the torch bearer and Franklin County’s Jonathan Gilliam started the events off as the flag bearer. The AEDC Color Guard topped off the opening ceremony and AEDC Vice Commander Col. Eugene Mittuch led the Pledge of Allegiance.

Five athletes will compete in the National Summer Games in Lincoln, Neb., and two coaches were selected to go as well.

There were 356 people, 53 from AEDC, who volunteered their time to ensure a successful event.

The counties represented were Bedford, Coffee, Franklin, Lincoln and Moore.
AEDC Commander

By Col. Michael Panarisi

and endurance are improv-

along, it’s a good bet that

if you’ve been following

over the past few months

where when you are only

week prior, to the point

day. Then slow down every

your toughest workout about

beats all out rest.

you are consistently includ-

Harder, Rest HARDEST!),

trilogy? Train Hard, Race

hard (remember the holy

taper! If you are training

of the ER.

the most out of your hard

these ideas will help you get

up to a local 10K, the Mach

apply to a wide variety

but 50 of you, trust me, the

a "test."

The older you get, the

little less than you did when

we started in November. So

what do we do with all that

we've started to see?

For the USAF fitness
test, I'm in total rest mode

for three full days prior to

making a good night's

sleep for the "super hard" test.

You may have already

been informed of the

"Harder, Rest HARDEST"

without knowing it. Did you

ever miss a workout due to

minor injury or illness? The

"fledgling legs" feeling:

when you get back into your

routine is the clue.

The older you get, the

more important this final

phase of the "preparation"

routine is for those of us

with lactic acid build up, and

aim to peak between the

first few reps. Accelerate

to muck it up, but one word

of caution.

If things are going well,

you'll get over the shiv-

er's half way through the

first lap, and from then on,

the distance and intensity

will shave seconds off every

lap.

If you are like me (scary

thought, I know), I eat a

light, carb-biased breakfast

about two hours prior to

show time. And I’m in the

"super hard" mode. I’m

treading the kilometer to get

rid of whatever I don’t need

with lactic acid build up, and

nothing in the legs is intended
to invade an injury. If things

are going well, you'll take

about 15 "licks" to work up and

back down.

This will cover nearly a mile

of poppy seed for the 1.5

miles, I can hear you already

"All that work will just tie

me out for the run!"

Remember, the time to

figure that out is in training,

so budget some training
days to experiment. But as

you stay in the "smart" mode,

this short run warp puts money

towards the 10K goal. If you’ve

ever felt "trapped" or a "super

hydrated" runner, you know

what I mean:

Remember, properly
	trained (and fueled!) muscles

store about 30 minutes of

glycogen, so even 20 min-
utes of mid-tempo running

will be just awful. Runners

who don’t train and feed

aren’t ready … either get

rolled over or let yourself

in training. It just doesn’t

work in training, so budget

some training time. This

training will help you get

ready for the 1.5 mile event.

The older you get, the

more important this final

phase of the "preparation"

routine is for those of us

with lactic acid build up, and

aim to peak between the

first few reps. Accelerate

to muck it up, but one word

of caution.

As the pace picks up,

I focus on proper stride

execution, foot placement,

and deliberate, controlled

breathing. Along the way,

lanes in some laps. If some-

thing feels tight or ugly, and

you aren’t ready … either get

rid of whatever I don’t need

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breathing. Along the way,
The American Cancer Society Relay For Life is being held at the Coffee County Fairgrounds in Manchester starting at 6 p.m. tonight. The event will continue through the night and will end at 6 a.m. tomorrow. This year there are three teams comprised of people who are affiliated with the base. All teams are looking for members interested in joining the team or making a donation toward the cause. Team members do not have to work on base; friends and family members are encouraged to participate.

Team and team captains are as follows: Big Cheese and the Banditos - Team Captain Greg McCreary; Chair Force - Team Captain Jack Amphitheater; and Coins 4 A Cure - Team Captains Heather Fair and Kristi Deaton.

For more information, contact Dee Wolfe at 454-4313 or by e-mail at dee.wolfe@arnold.af.mil or Shawn Wolfe at 454-6500 or by e-mail at shawn.wolfe@arnold.af.mil.

There are no shortcuts for being safe

Regardless of your job, some basic safe work practices should be observed by everyone in the workplace. The objective of the safety program is to prevent injuries and to allow you to perform your job efficiently and safely. It takes effort to support the safety program by reporting all unsafe conditions or practices to your supervisor or on a Safety Observation Report (Form GC-1710), but it is all about your safety and the safety of others. And it’s definitely worth the effort!

The vast majority of work related injuries are the result of workers performing unsafe acts. When we take shortcuts, violate safety regulations, or simply don’t take safety seriously, injuries will most likely occur. Each of us has the responsibility and obligation to comply with all safety regulations to ensure the safety of ourselves and our co-workers.

Often, there’s a “recommended safe way” of doing a task and a way that seems quicker but is more hazardous. Many people use the more dangerous shortcut to save time in the past.

However, timed studies show that the time invested in doing a task safely is quite insignificant, especially when compared to the costs of injuries or possible death that could result from the extra hazards involved in the shortcut.
In later February, students from Tullahoma’s Bel-Aire School visited AEDC as a part of the Commander’s new educational outreach initiative, Spark. Spark is designed to introduce elementary school children to the work conducted at the center. The children participated and toured facilities during their visit. The students wrote letters to Col. Panarisi and the PA staff expressing their gratitude for their visit.

A Bel-Aire third grader participates in an experiment during a recent visit to AEDC.
Tim McNeese finds AEDC a place where family matters

By Philip Lorenz III

McNeese Writer

By the time Tim McNeese was 23 years old, he was working as a journey- man electrician in Natchez, Mississippi, where he was raised. Married for a little more than a year, McNeese, who had wanted to work at AEDC since he was 17, finally realized his dream when he started work at AEDC in 2005.

“My father and grandfather both worked on construction here when they first started building AEDC, when it was still coming out of the ground,” recalled McNeese who is an electrical systems operator. “I had always heard my father before him, Curtis worked in construction at AEDC when the complex was being built. I was working as an electrical intern, taking an electrical systems class and majoring in electrical engineering at the University of Southern Mississippi when a recruiter for AEDC came by my dorm and I took him up on the offer. I signed up for a co-op job in 2003 and got my 90 days in.”

“When an engine test is being conducted in AEDC’s engine test cells, the noise level is unmistakable. However, what goes on behind the scenes is what has McNeese’s attention. “The run has already started when we come in—we’re on second shift,” he said. “Shift start is at 6 p.m. We’re the ‘go-to’ people for stress fractures on piping branch welds – check for stress fractures on piping,” Justin said, adding, “It’s a privilege to work here and always good to hang with my family.”

McNeese referred to his family as “like family to him. They X-ray pipe welds and branch welds – check for stress fractures on piping,” Justin said, adding, “It’s a privilege to work here and always good to hang with my family.”

McNeese, who is also one of the “go-to” people when a crane operator is needed on base, feels fortunate being like family to him. His first assignment was in the Aerospace Propulsion System Test Facility at AEDC. “The first two motors you walk up to are 52,000 horsepower apiece,” McNeese said. “I had seen buildings that size. I was in awe. I didn’t think I’d ever get my feet in that door.”

“McNeese referred to his family as ‘like family to him.’

The supervisor in charge of the machines has already come online. “I run the exhaust system whenever testing is going on,” he continued, explaining that where he sits at the control station determines what he will monitor and adjust for that shift. 

“Primary station, that’s where you are on the test cell, what they want – the pressure and temperature coming in plus the pressure they want leaving the test cell,” McNeese, who is also one of the “go-to” people when a crane operator is needed on base, feels fortunate being like family to him. His first assignment was in the Aerospace Propulsion System Test Facility at AEDC. “The first two motors you walk up to are 52,000 horsepower apiece,” McNeese recalled. “I had seen buildings that size. I was in awe. I didn’t think I’d ever get my feet in that door.”

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Tim McNeese took some time recently to show his son Justin some changes at the B-Plant control room. (Photo by Philip Lorenz III)

After his house burned down a few months ago and almost before he could fully react, word had already gotten around to his coworkers on base.

“It was very devastat -

ing,” McNeese recalled.

“We were at church at the time it caught on fire. My wife was home sick and she called me as I was leav-

ing the building. And the next day when I called my supervisor and told him I wouldn’t be in, well, it was already all over the base. People were already calling my cell phone, wanting to know what they could do to help.”

His coworkers on sec-

ond shift share his point of view.

“It’s like everybody’s family after you’ve known them two or three years, especially for 20 years,” said Darrell Booher, an ATA base operations elec-

trical lead.

“You get to where you can rely and depend on them, you don’t have to think twice about it and know they’re going to do their job and do it right, correctly. So, it’s family.”

Jim Waggoner, another coworker, is hoping his son, who is currently deployed overseas, will be able to join AEDC’s work force after completing his time in service.

F-15 takes off...

Shelter-In-Place knowledge could save your life

What would you do if you were at work and there was an explosion near your building? What would you do if you received a pack-

age in the mail that you considered suspicious?

What if you received alerts indicating an acciden-

tal HAZMAT re-

lease? What protective actions could you take?

Shelter-In-Place (SIP) may be the only option. Most incidents requir-

ing SIP actions will likely involve accidental releases of industrial materials such as toxic industrial or agri-
cultural chemicals. They may also involve releases of biological or radiologi-
cal material. Some may be the result of malicious acts such as terrorism. These incidents will likely occur with little or no warning and require individuals and groups to quickly imple-

ment protective actions based upon their assess-

ment of the situation or directions from emergency response personnel.

SIP creates a barrier between yourself and the potentially contaminated air outside. SIP actions can provide short-term (one-to-
two hours in most cases) protection to the occupants and are most effective when building occupants plan and practice their actions in advance. Most are simple, low or no-cost actions. Sheltering in-place is not the solution for every situ-

ation. However, it may be the only practical method to provide protection. Other types of sheltering used on the installation are storm shelters for tornadoes and active shooter. Actions for these vary and should not be confused with SIP. If you are outdoors, you should:

• Seek shelter indoors immediately in the nearest undamaged building.

• If appropriate shelter is not available, move away from the hazard in upwind direction.

• Listen for official in-

structions and follow di-

rections.

[An F-15 Eagle from the 3rd Wing at Elmendorf AFB, Alaska, takes off April 7, 2010, for a live-fire training mission over an Alaskan gunnery range. (U.S. Air Force photo/Staff Sgt. Brian Ferguson)]
Nellis AFB, Nev. (AFNS) - The head of the Federal Aviation Administration was given the opportunity to see the other side of flight safety when he flew with the U.S. Air Force Thunderbirds.

Randy Babbitt, who is responsible for the safety of more than 30,000 aircraft and has accumulated more than 14,000 flying hours, got his first ride in a fighter jet.

“There are not enough words to describe it,” he said. “I have a new appreciation for the fighter aircraft’s capabilities and the people who work with them.”

The U.S. military makes up a large percentage of the daily flights FAA representatives monitor. Babbitt’s familiarization flight with the demonstration team gave him a more in-depth look at the safety preparations that go into a Thunderbird performance and the amount of interaction that occurs between the Air Force and the FAA.

“Everything we do, from the beginning to the end of a flight, must be coordinated with the local authorities, so it’s important for (Babbitt) to see how we interact with the civil and commercial air industry,” said Lt. Col. Derek Routt, USAFADS operations officer and Thunderbirds No. 7, who flew Babbitt in the red, white and blue F-16D Fighting Falcon.

During his flight, Babbitt experienced every maneuver flown during a Thunderbird air show performance. He also earned the coveted 9-G pin after experiencing 9G’s.

“To show him our Air Force and to share our story with someone at his level was amazing,” Colonel Routt said. “We have a common bond when it comes to commitment to safety, and I am honored that I was able to share this experience with Mr. Babbitt.”

In addition to safety, FAA officials and the Thunderbirds also share the same goal of keeping the spirit of aviation alive.

“The Thunderbirds inspire so many young men and women,” Babbitt said. “Through them, we hope to motivate the next generation of aviators.”
Air Force Chief of Staff Gen. Norton Schwartz delivered this new C-130J Super Hercules April 16, 2010, to Dyess Air Force Base, Texas. This was the first of 28 C-130Js to be delivered to the 317th Airlift Group. (Photo Staff Sgt. Desiree Palacios)

Dyess AFB, Texas (AFNS) - The Air Force’s top military leader flew and delivered a new C-130J Super Hercules April 16 from Little Rock AFB, Ark. to Texas. Opening a new era in tactical airlift for Dyess AFB, Air Force Chief of Staff Gen. Norton Schwartz spoke to a crowded hangar of distinguished visitors and service members about the airlifter and the Airmen who will operate it.

“We must bring the best that we possibly can to the joint fight; we are doing this by modernizing our inventories,” General Schwartz said. “The delivery of this C-130J is a step toward modernizing our airlift inventories and we will continue to make progress. But that alone will not guarantee success; our people who permit us to use these machines to best effect are our number one asset.”

He presented a ceremonial key to the aircraft’s crew chief, Staff Sgt. Ryan Flores, who was Air Mobility Command’s crew chief of the year.

“The aircrews from the 317th Airlift Group are deployed in support of ongoing operations around the world, and are serving as reliable and trusted teammates to our joint and coalition partners,” the general said.

The general said that the men and women of the 317th have been deployed more than 2,200 continuous days, with missions in Haiti, Iraq, Afghanistan and the United States. Dyess aircrews also accumulated more than 17,000 flying hours last year, an amazing accomplishment.

The group commander responsible for executing that demanding schedule said the delivery of the C-130J is the beginning of a new capability for the group and the continuation of a long history of Abilene airlift. C-130s have been flying here since 1961.

“Today marks the day where the capability of the 317th Airlift Group, Air Mobility Command and the U.S. Air Force has significantly increased,” said Col. Dan Dagher, commander of the 317th AG, “and starts another 49 years of C-130 presence in Abilene.”

Colonel Dagher said the base would receive 27 more aircraft and, by 2013, ultimately becoming the largest C-130J base in the world. Currently, a unit in England has 24 C-130Js.

The chairman of the Abilene Military Affairs Committee, Dr. Jim Webster, said the delivery of the new airlifter was a welcome upgrade, noting that the busiest C-130 in the Air Force had the oldest model.

Named the “Pride of Abilene,” the first new Dyess airlifter reflects the unique relationship between the base and the community around it.

Texas Congressman Randy Neugebauer, who participated in the delivery of the aircraft from Little Rock, also spoke at the arrival ceremony and highlighted the exemplary relationship the community has with the base. He noted that the AMC award that honors community support was renamed the “Abilene Trophy” after the city won it so many times.

The new Dyess C-130J rolled off the production line only two months ago at the Lockheed Martin plant in Marietta, Ga. C-130Js entered the Air Force in 1959 and incorporate state-of-the-art technology to reduce manpower requirements, lower operating and support costs and provide life-cycle cost savings over earlier C-130 models. Compared to older C-130s, the J model climbs faster and higher, flies farther at a higher cruise speed and takes off and lands in a shorter distance.

Winds of Energy

The biggest and newest (left) of two types wind turbines at F.E. Warren AFB, Wyo. faces the wind coming across the high plains and push against the clouds that later dropped light snow on the base and surrounding city of Cheyenne on April 6. The larger wind turbine was completed and online early in 2009 and is rated at 2 megawatts of electrical energy that goes directly into the base power grid. The other two smaller wind turbines produces a combined output of 1.3MW.

(by Janie Santos Defense Media Activity-San Antonio)

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A panel of judges from the five U.S. military branches views a performance by the U.S. Air Force Honor Guard Drill Team during the 3rd Annual Joint Service Drill Team Exhibition April 10, at the Lincoln Memorial in Washington, D.C. The event featured drill team performances from all five military branches. (U.S. Photo by Staff Sgt. Dan DeCook)

Barksdale Airmen restore B-17G for 8th Air Force museum

This B-17G static display honors Maj. Gen. Lewis E. Lyle at the 8th Air Force Museum April 5, at Barksdale AFB, La. Barksdale AFB Airmen, volunteers and contractors are in the process of restoring the B-17 and painting it to resemble one that was flown by General Lyle on a bombing mission during World War II. (Photo by Staff Sgt. John Gordinier)
Camp Adventure returns June 1-Aug. 6
Camp Adventure is a day camp for children whose families completed kindergarten through age 12. The camp is sponsored by 79th Services and run by skilled professionals through the University of Northern Iowa.

Activities are held Monday - Friday at the Youth Center, building 3055 from 9:30-3:30. Children may attend any or all weeks but attendance information should be completed at time of registration. The activities and programs are designed to include that week's theme and to involve the children in outdoor activities.

Window and morning snacks and beverages will be provided. Parents must supply their child with a daily sack lunch (no nuts and no dairy beverages of any kind). Ensure that lunches are fresh and that the child does not bring nuts (such as peanuts or tree nuts) for educational purposes. The child can be accommodated in the central refrigerator; however, meals will not be heated.

Workshop: June 1-14 Zooparty Project
Lions and Leopards and Me, oh My! registration is the same as all other camps, $50 for 30 members or families. Your child will have the opportunity to get their first exposure to the Arctic. When the trip starts your child will have a complete understanding of the alpaca, the polar bear and the Alaskan brown bear.

Workshop: June 17, 20-14 Space Raiders & Cosmic Invaders
This week will include trips to local sites. Let your child experience the excitement of being on Mars and space exploration. Local sites include the Lincoln Park Zoo, Science Museum, Fermi National Accelerator Laboratory, Timmerman Planetarium, and a trip to Madison to visit the University of Wisconsin and the Wisconsin Electric Company power plant.

Workshop: June 21-25 Rangers, Robbers & Toys Transformers

Outdoor Recreation is planning a trip to The Lost Sea Adventure May 15. Sign up deadline has been extended to April 30 for this all day trip to Sweetwater, Iowa. The trip will include a guided tour of the underground lake in America. Two tours will be available, a 2:30 pm and a 4:30 pm tour. The trip fee is $20 per person and includes round trip transportation, and lunch. The trip fee is covered for all participants. There are no additional costs associated with the trip.

Outdoor Recreation has a field trip to the Arnold Lakeside Center June 6. The trip fee is $7 and includes round-trip transportation and a picnic lunch on the beach. The ARNOLD LAKESIDE CENTER

Arnold Lakeside Center now serves Breakfast, Lunch and Dinner daily. The new menu plan includes a variety of choices and includes many local, seasonal products. Menus include sandwiches, salads, soups, desserts and beverages. Menus are available at the reception area or by calling 345-3350. Menus are also posted on the Arnold Lakeside Center website, www.arnoldlakesidecenter.com.

Arnold Lakeside Center also provides a variety of activities for all ages. The resort includes two swimming pools, a tennis court, a 18-hole golf course, and a fitness center. The resort also provides a variety of water sports such as water skiing, wakeboarding, and jet skiing. The Arnold Lakeside Center also offers a variety of boating and fishing opportunities. The resort is located in the heart of the Wisconsin Dells and is a perfect place for a family vacation or a weekend getaway.

Camp Adventure is an accredited member of the American Camp Association and the American Camp Association's Gold Standard for Safety. The camp is designed to provide a safe and fun environment for children of all ages. The camp offers a variety of programs and activities, including swimming, boating, and sports. Camp Adventure is located on the Arnold Lakeside Center, a 150-acre lakeside resort located on the shores of Lake Mendota. The camp is open to children of all ages and is operated by the University of Wisconsin-Madison Extension. For more information, visit the camp’s website at www.campadventure.org or call 345-3350.

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May 2010

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

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Sign up for Outdoor Rec Gatlinburg Trip by April 30, 454-6084.


Friday night din- ing is available with a menu from 5-9 p.m., at Damon and Morgan. First Friday night runs 10-5 p.m. Damon and Morgan is located at 904 Church St. Damon and Morgan is owned and operated by John Tyree, a member of the Mountview Elementary School PTA.

Licensed by Longaberger Basket Company, the Damon and Morgan ribbon store is located at 3205 S. Acadian Home St. Damon and Morgan is open Monday through Friday from 9 a.m. to 5 p.m., and Saturday from 9 a.m. to 2 p.m. Damon and Morgan is owned and operated by John Tyree, a member of the Mountview Elementary School PTA.

Wednesday Lunch is available for dine-in from 11 a.m. to 1 p.m. Call ahead to 454-5555 to place your order ahead of time. For better service call before 3:00 p.m. on any day and pre- order. Damon and Morgan’s Half-Pizza menu is available for dine-in all day and can be ordered in advance by phone.

Spring Chess Club competition will be held this Thursday, May 27 (for all ages under 18) and this Saturday, May 30 (for current participants). Play format is open to all skill levels and is not structured. Players are required to bring their own chessmen and a time clock. All players are encouraged to enter this tournament. The Spring Chess Club special could include items such as new chess boards and chess clocks. For more information call 337-8787.

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Family Members and Youth Programs

Air Force Space Command Base Community Center will be open on Tuesday and Thursday, May 17-25, from 5-9 p.m. at the US Space and Rocket Center. May 23 - Huntsville, Ala. PGT-13 starting Mart Darnell and Joe Freeman. The true story of how Nelson Mandela joined forces with other South Africa’s rugby team to help unite their

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