Military and civilian satellites, like the Advanced Extremely High Frequency (AEHF) Space Vehicle-1, can be subjected to natural and manmade signal disruptions. A Small Business Innovative Research (SBIR) project currently underway to simulate that disruption is taking place between Air Force Operational Test and Evaluation Center (AFOTEC) at Peterson AFB, Colo., AEDC and Welkin Sciences, Inc., Colo. The goal is to develop a MILSATCOM Atmospheric Scintillation Simulator or MASS to test the efficiency of satellite’s capabilities to operate regardless of scintillation. (Courtesy of the U.S. Air Force Space Command)

AEDC ‘Team Remember’ supports Relay for Life

By Philip Lorenz III

AEDC’s mission is to test and evaluate space systems under realistic conditions and the MASS enables simulation of actual wartime space environments by providing the ability to emulate ionospheric radio frequency scintillation in ground test facilities.

With countries like Iran and North Korea striving to aid nuclear weapons to their arsenals, the risk they pose to U.S. military satellites is a growing concern. The Air Force Operational Test and Evaluation Center (AFOTEC) at Peterson AFB, Colo., and AEDC are focusing on a Small Business Innovative Research (SBIR) project that aims to develop a scintillation test capability to ensure military satellites can function regardless of natural or manmade signal disruptions.

Scintillation is a fluctuation in radio wave propagation that can result from atmospheric effects due to natural causes or a nuclear detonation. High altitude nuclear detonations could pose a threat to satellite performance by creating unusual electrical malfunctions within the satellite’s circuitry or by destabilizing the medium through which certain satellites send and receive radio wave signals.

“The objective is to develop a flat fading simulator for hardware-in-the-loop testing of natural scintillation effects on military satellite communication (MILSATCOM) systems,” said Bill Sward, the SBIR project manager for Welkin Sciences, the company developing the simulator. “What we are working on is called the MILSATCOM Atmospheric Scintillation Simulator or MASS.”

AEDC’s mission is to test and evaluate space systems under realistic conditions and the MASS enables simulation of actual wartime space environments by providing the ability to emulate ionospheric radio frequency scintillation in ground test facilities.

Sward added, “The MASS emulates disturbed transionospheric radio frequency propagation channels using the Defense Threat Reduction Agency (DTRA) channel models, reasonable worst-case scenarios, and specific event scenarios defined by the MASS operator.”

Certain MILSATCOM systems are hardened against the degrading effects of radio frequency scintillation and the MASS provides the only practical method of testing these MILSATCOM systems designed for anti-scintillation capability.

“We understand the scintillation phenomenon, but we haven’t had the ability to test it,” Swanson said. “Current tests have only been on the modem, not on the terminal or the satellite. “MILSATCOM systems that have this capability are of significant value in high gain antennas, particularly military systems that are not hardened against the degrading effects of radio frequency scintillation and the MASS provides the only practical method of testing these MILSATCOM systems designed for anti-scintillation capability.”

AEDC Information Protection Team diligence reaps AFMC award

By Raquel March

Members of the AEDC Information Protection (IP) Research Development Test & Evaluation (RDT&E) Security Team are applauded for receiving the AFMC 2012 Information Protection Team of the Year Award.

This award recognizes outstanding achievements by professionals in the field of Information Protection, including information, industrial and personnel security disciplines, discipline-specific protection of information. Nominations were submitted from across the entire Air Force Material Command (AFMC) and AEDC’s IP security team was cited for its excellent program rating by the AFMC Inspector General in the 2012 Unit Compliance Inspection and its security test support, processes and other numerous security program developments. AEDC’s IP team provides a secure environment and educates personnel to protect classified, controlled unclassified information and assets in support of the complex’s mission.
Arnold Police promote ‘Rules of the Road’ for National Bike Month

By Arnold Police Department

Whether it’s to save money or time or just to have some fun, biking can be a great way to travel. To ensure your community’s events, ford funds or your destination, National Bike Month (May) is always a great time to bike. The use of bikes is not limited to a national event; however, it is an opportunity to learn the rules of the road.

The League of American Bicyclists offers six Rules of the Road for drivers and bike riders:

1. Look before you live. Follow the law and look both ways before taking your bike through an intersection.
2. Ride like the weather. Choose a helmet, bright lights, red tail light, and reflective signs at night or in any weather visibility is poor. Make Eye contact with drivers.
4. Keep your cool. Roads are not always smooth, and bike riders always make a bad situation worse.
5. Be conscious of signs. Road traffic and other traffic are ahead. Where drivers can see you; wear bright clothing.
6. Be legal. Use a front white, red tail light, and reflective signs at night or in any weather visibility is poor. Make Eye contact with drivers.

The Tullahoma News, Arnold Engineering Development Center (AEDC), under exclusive written agreement with the American Producers and Editors Association (ATA), of the products or News constitute endorsement by the ATA contractor publication for the nation’s best value ground systems.

Core Values

• Commitment: Results driven service and excellence
• Integrity: Right choice, no shortcuts
• Respect: Dignity and worth of every person
• Innovation: Creativity, new ideas, and responsible change
• Quality: Excellence in all we do

Service SecDef sends message about civilian furloughs

By Secretary of Defense Chuck Hagel

As you fully aware, the Department of Defense is facing a budget shortfall (all in our budget for the coming fiscal year) as a result of the sequestration due to the partial government shutdown, and is the result of current law (Public Law 112-25, the Bipartisan Budget Act of 2013).

The Department of Defense has been driven by law and the need to maintain harm to the execution of our core mission. For example, all employees deployed or temporarily assigned to a combat zone will be excepted from furloughs. The department has been given authority to develop specific furlough procedures to minimize advance notice effects. Air Force planners and instructions that we do

• Align with customer goals
• Nurture, enable and treat Airmen need the courage to do the what’s right when it might not be the easy thing. They need the courage to speak the truth even when everyone else thinks they are wrong.
• Leaders, regardless of rank, need the courage to speak up when necessary. As a leader, I value the members of my organization who are willing to speak up with their perspectives. They have the courage to offer their views, understanding that they may not be popular. They may even be wrong, but they offer them up anyway because they know it makes for a better decision.

The Air Force recognizes the value of active-duty and Guard/Reserve members. The Air Force recognizes the value of active-duty and Guard/Reserve members.

In the next scene, the employee who responds “I think it’s a stupid idea.” when it is. Be bold, give us a chance.

As you are fully aware, the Department of Defense has been driven by law and the need to maintain harm to the execution of our core mission. For example, all employees deployed or temporarily assigned to a combat zone will be excepted from furloughs. The department has been given authority to develop specific furlough procedures to minimize advance notice effects. Air Force planners and instructions that we do

• Align with customer goals
• Nurture, enable and treat
AEDC employees ‘Rev up’ for Cruise-In 2013 car show

By Raquel March

AEDC Public Affairs

Personnel at AEDC are in the process of finalizing plans for the upcoming AEDC Cruise-In, scheduled for May 31. Since the first successful Cruise-In for employees last year, coordinators have received numerous requests for a similar event.

"With the success of last year’s event we hope to see a diverse collection of vehicles representing classic hot rods, muscle cars, trucks, current day cars, and luxury/performance cars and motorcycles," said Dr. Ralph Jones, Cruise-In coordinator.

Judging criteria for the show will be published and everyone will have the opportunity to attend and view the displays. Cameras will be allowed at the event and attendees should be sure to bring their cameras! (Photo by Jacqueline Cowan)

"This shows the dynamic nature of our work, but also the future of our lives outside of AEDC. AEDC Cruise-In and test customers in the value of our work," said a note to employees.

"We are a very competitive organization that provides real value to the testing community and this is why we’re seeing a growing community of automobile and motorcycle fans. AEDC has some unique, one-of-a-kind facilities needed to host an event like this. Last year, both the contractor and government workforce have been aggressively marketing this event so it seems to be paying dividends." Pearson did caution that the funding situation is in the best possible future; it is part of the business now. As long as there are federal budget cuts and testing that was canceled or delayed the AEDC rehires many as AEDC’s workload stabilizes.

By Katrina Gatin

AEDC Business Operations

AEDC recently announced some good news – the company will rehire many of the employees who were reduced-in-force (RIF). AEDC rehired staffing by 170 people in April. Now the company will try to order and hold other

"We’re starting from a new year’s event we hope to see a diverse collection of vehicles representing classic hot rods, muscle cars, trucks, current day cars, and luxury/performance cars and motorcycles," said Dr. Ralph Jones, Cruise-In coordinator.

Judging criteria for the show will be published and everyone will have the opportunity to attend and view the displays. Cameras will be allowed at the event and attendees should be sure to bring their cameras! (Photo by Jacqueline Cowan)

"This shows the dynamic nature of our work, but also the future of our lives outside of AEDC. AEDC Cruise-In and test customers in the value of our work," said a note to employees.

"We are a very competitive organization that provides real value to the testing community and this is why we’re seeing a growing community of automobile and motorcycle fans. AEDC has some unique, one-of-a-kind facilities needed to host an event like this. Last year, both the contractor and government workforce have been aggressively marketing this event so it seems to be paying dividends." Pearson did caution that the funding situation is in the best possible future; it is part of the business now. As long as there are federal budget cuts and testing that was canceled or delayed the AEDC rehires many as AEDC’s workload stabilizes.

By Katrina Gatin

AEDC Business Operations

AEDC recently announced some good news – the company will rehire many of the employees who were reduced-in-force (RIF). AEDC rehired staffing by 170 people in April. Now the company will try to order and hold other

"We’re starting from a new year’s event we hope to see a diverse collection of vehicles representing classic hot rods, muscle cars, trucks, current day cars, and luxury/performance cars and motorcycles," said Dr. Ralph Jones, Cruise-In coordinator.

Judging criteria for the show will be published and everyone will have the opportunity to attend and view the displays. Cameras will be allowed at the event and attendees should be sure to bring their cameras! (Photo by Jacqueline Cowan)

"This shows the dynamic nature of our work, but also the future of our lives outside of AEDC. AEDC Cruise-In and test customers in the value of our work," said a note to employees.

"We are a very competitive organization that provides real value to the testing community and this is why we’re seeing a growing community of automobile and motorcycle fans. AEDC has some unique, one-of-a-kind facilities needed to host an event like this. Last year, both the contractor and government workforce have been aggressively marketing this event so it seems to be paying dividends." Pearson did caution that the funding situation is in the best possible future; it is part of the business now. As long as there are federal budget cuts and testing that was canceled or delayed the AEDC rehires many as AEDC’s workload stabilizes.

By Katrina Gatin

AEDC Business Operations

AEDC recently announced some good news – the company will rehire many of the employees who were reduced-in-force (RIF). AEDC rehired staffing by 170 people in April. Now the company will try to order and hold other

"We’re starting from a new year’s event we hope to see a diverse collection of vehicles representing classic hot rods, muscle cars, trucks, current day cars, and luxury/performance cars and motorcycles," said Dr. Ralph Jones, Cruise-In coordinator.

Judging criteria for the show will be published and everyone will have the opportunity to attend and view the displays. Cameras will be allowed at the event and attendees should be sure to bring their cameras! (Photo by Jacqueline Cowan)

"This shows the dynamic nature of our work, but also the future of our lives outside of AEDC. AEDC Cruise-In and test customers in the value of our work," said a note to employees.

"We are a very competitive organization that provides real value to the testing community and this is why we’re seeing a growing community of automobile and motorcycle fans. AEDC has some unique, one-of-a-kind facilities needed to host an event like this. Last year, both the contractor and government workforce have been aggressively marketing this event so it seems to be paying dividends." Pearson did caution that the funding situation is in the best possible future; it is part of the business now. As long as there are federal budget cuts and testing that was canceled or delayed the AEDC rehires many as AEDC’s workload stabilizes.
Research center established at the UT Space Institute

Office of Public Relations
University of Tennessee Space Institute

The Center for Advanced Scientific Support and Engineering Technology (ASSET.TN) was established on the campus of UT Space Institute in May 2013. According to Vakili, “as a non-profit organization, ASSET.TN overcomes public funded university limitations for technology development types of research, with funding and growth opportunities, creating a mechanism for a different level of engagement with its customers and the Department of Defense and will help to facilitate new opportunities for the UT Space Institute and other organizations.”

There are many similar non-profit centers in operation with their affiliated universities and have joint venture become quite successful. Such companies have become a symbol of adjacent support for academic accomplishments, generating advanced technology that lead to technology jobs.

The processes involved are typically through developing applications from intellectual properties created by affiliated academic institutions, industrial entrepreneurs and industrial partners. Transitioning such techniques into products contributes to the community, facilitating technology companies to be supported directly and indirectly, and help their growth by providing services that frequently smaller companies do not have readily available in order for them to compete against their peers located in well-established industrial regions.

Other than economic growth of the region and communities located in the Tennessee Valley Corridor.

By Joel Fornter
Secretary of the Air Force Public Affairs

BASE, Fla. (AFNS) – The world’s largest fleet of F-35s command centers on the ground. Some from all military branches who are learning to fly the plane go through the schoolhouse at Eglin, including some from international services.

In addition to a few design improvements, the major difference between the new aircraft and others include a weather tracker and an enhancement of a system known as ALIS, or automatic logistic information system, which transmits aircraft health and maintenance information and makes use of a portable computer placeable for the maintenance.

This system is a game changer, said Senior Master Sgt. Eric Wheeler, production superintendent, 33rd Aircraft Maintenance Unit. “It combines real-time data collection and troubleshooting shooting in one system, eliminating the need for carrying out stacks of binders and paper forms to the jet, as well as having to adumbrate once on paper and again later in the office on a computer.”

The latest system software, which has a better user interface and enhanced capability to download, is another step along the track in fixing problems in less time, which can be critical in time of conflict, Wheeler said.

The new F-35A will share the skies over Eglin’s training ranges with the Navy VFA-101 flying squadron here, which is slated to get their first two F-35C aircraft later this month along with another United Kingdom F-35B assigned to the Marine Corps VMFA-501 flying squadron, scheduled to arrive here in about a month.

F-35 Lightning II fighter takes another step forward

Maj. Matthew Johnston, (left) 88th Fighter Squadron, instructor pilot, shakes hands with Col. Stephen Jost, 33rd Operations Group commander upon arrival at Eglin Air Force base, Fla., with the advanced F-35 Lightning II joint strike fighter, May 6. The advanced F-35 will be utilized by all military branches at the Air Education Training Command F-35 schoolhouse to train on new systems and software on the platform (U.S. Air Force photo by Staff Sgt. Nicholas Egebrecht)
Life can change in a split second
By Tech. Sgt. Marashah Haynes
Air Force News Service

COLORADO SPRINGS, Colo. (AFNS) – Life can be described as a series of moments, seconds even, strung together to form experiences and memories. A split-second decision can mean the difference between life and death.

Senior Master Sgt. Martin Smith knows the impact just one second can make.

Smith, a seasoned motorcycle rider and Active Guard Reservist, was driving home from work just as he had done countless times before. A construction project in the interstate caused traffic to back up on the roadway. As he came around a sharp curve, he didn’t realize the cars in front of him were actually at a stand-still.

“I tried to brake, but because of the heat and the asphalt and my tires, I slid,” he said. “I let up on the brake and tried to re-brake, and I realized I wasn’t going to clear the car in front of me, so I tried to get into the ditch, but I was still going 30 miles per hour, and I clipped the back right-hand corner of that car, all on my left leg!”

Smith said he didn’t realize the gravity of what had happened initially. He saw that his leg was badly injured and bleeding profusely, so he began to perform self-aid and buddy care on himself.

“I took my belt off and wrapped around the bottom of my knee, trying to tourniquet it. It almost like I was looking back at myself. I was on a slope and my leg was on the downhill part of that, so I knew I had to get turned but I didn’t have the strength to get turned.”

Eventually, the ambulance from the accident wound off and Smith began to go into shock. Bystanders, including a prior Marine, and Smith’s own emergency responders were on route via helicopter.

Smith said he remembers the EMTs talking to him during the flight to the hospital trying to keep him awake.

Smith’s leg had been crushed in the accident and the damage was worse than he anticipated. The trauma to the tissues and nerves was so severe the doctors suggested that below the knee amputation would be warranted.

Of officials approve implementation guides for mobile devices

WASHINGTON (AFNS) – Pentagon officials approved implementation guides for BlackBerry 10 smartphones and BlackBerry Playbook tablets with BlackBerry Enterprise Service 10, as well as Samsung’s Android Knox, to be used on Defense Department networks.

“This is a significant step towards establishing a multi-vendor environment that supports a variety of state-of-the-art devices and operating systems,” Air Force Lt. Col. Damien Packert, a Pentagon spokesman, said in a statement announcing the approval.

Several mobile devices and operating systems are going through the Defense Information Systems Agency’s review and approval process. A security technical implementation guide approval establishes a configuration that allows a secure connection to DOD networks, which facilitates the process by eliminating the need for security reviews at the individual organization level, Packert explained. However, he added, yesterday’s decision does not result in product orders.

The level of security necessary throughout the department does not rest solely on any one mobile device, Packert said, adding that the network and software must also be secured and managed appropriately. An integral part of the secure mobility framework will be the Mobility Device Management and Mobile Application Store, which is in source selection now and anticipated for award in early summer, he said.

“We are pleased to add BlackBerry 10 and the Samsung Knox version of Android to our family of mobile devices supporting the Department of Defense,” the spokesman said. “We look forward to additional vendors also participating in this process, further enabling a diversity of mobile devices for use within the department.”

AIAA Tennessee Section announces annual awards luncheon at AEDC

The American Institute of Aeronautics and Astronautics (AIAA) Tennessee Section is having an annual Awards Luncheon May 29, 11 a.m. to 12:30 p.m. at the Arnold Lakeside Club. Membership in AIAA is not required for attendance.

AIAA will recognize colleagues who have achieved significant technical accomplishments and provided valued support to AIAA professional activities.

An Italian lunch buffet (bowtie pasta, fetuccini pasta, red and white sauce, meat lasagna, garlic bread, and salad) will be served at 11 a.m. and an awards presentation, kicked off by a short introduction from Col. Raymond Toth, will begin at 11:30.

Awards will include the prestigious General H. H. Arnold Award, presented to an individual recognized for outstanding professional contributions to the advancement of aeronautical or astronautical sciences. Special awards will also be presented to recognize outstanding teams and individuals that have provided significant support and/or outstanding achievements within the technical community.

This year’s awards also include the Billy J. Griffin Engineering Analysis Award, which is presented for an outstanding application of the integrated test and evaluation methodology.

The luncheon is $19.95 for non-ALC members or $8.95 for ALC members. A reservation is required in order to obtain an accurate count for planning. If attending, please contact Joe Wellemeyer at Joseph.Wellemeyer@arnold.af.mil or 434-4345 by close of business May 22.
AEDC Commander Col. Raymond Toth attempts to throw balls into plates for Team Remember’s Survivor Island game fundraiser while AEDC’s (left to right) Melissa Worren, Rhonda Ward and Heather Fair-Rawn assist. (Photo provided)

AEDC Education Training Specialist Dee Wolfe, the base liaison with the Relay for Life Team Remember, displays luminary bags in honor of her mother and father. The team also displayed a luminary in honor of Wolfe. During the Relay for Life Luminaria Ceremony, votive candles are lit inside personalized luminaries in honor of Wolfe. During the Relay for Life Luminaria Ceremony, votive candles are lit inside personalized luminaries in honor of Wolfe. (Photo provided)

To advertise in the High Mach, call the Tullahoma News, 455-4545.
Local veterans take Honor Flight to Washington D.C.

By Claude Morse

Coffee County, Tenn. — Thirty-two World War II and Korean War veterans and 13 guardians (escorts) had a great day in Washington D.C. Saturday May 11.

The veterans visited the World War II and Korean War Memorials, meeting Senator Bob Dole and watching the changing of the guard at Arlington National Cemetery’s Tomb of the Unknowns.

The Southern Middle Tennessee Honor Flight is already signing up veterans and guardians for a fall flight.

With the closure of the Music City (Nashville) Honor Flight Hub this month the Southern Middle Tennessee Honor Flight will take veterans from Middle Tennessee and surrounding states.

World War II Veterans have priority followed by Korean War veterans; terminally ill veterans have top priority. The trip is free for Veterans, Guardians pay their own way.

For information on signing up a veteran for the fall Honor Flight, contact Veterans Coordinator, retired Sgt. Maj. Larry Williams at tennesseeans2@blomand.net or (931) 224-3226.

For information on becoming a guardian contact Vice Chairman and Guardians Coordinator Lana Woodard at lwoodard@ctcbonline.com or (931) 455-3488. For general information on Honor Flight contact Chairman Claude Morse at aeroheritage@bellsouth.net or (931) 247-5151.

Defense Acquisition University registration to open in May

By Claude Morse

Southern Middle Tennessee Honor Flight

Senators Bob (center) and Elizabeth Dole (top left) meet with Honor Flight Veterans from across the country at the World War II Memorial on May 11. (Photos by Claude Morse)

Changing of the Guard at Arlington National Cemetery May 11.

AEDC Fellow Dr. Jim Mitchell (center) and AEDC retiree Ross Roepke (right) stand with a fellow veteran to view the World War II Memorial as part of the Southern Middle Tennessee Honor Flight on May 11. (Photos by Claude Morse)

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — Defense Acquisition University registration opened online May 16, and students should apply as soon as possible since classes fill quickly.

Members’ applications will be processed by priority, supervisor approval date and class start date, with Priority 1 students taking precedence.

Acquisition workforce members should regularly monitor the ACQ Now website for the most current information regarding DAU registration and course updates. Most resident classes only hold 30 students, and students should apply upon immediate release of the schedule. It’s important for applicants to note that a hundred or more other students may be applying for the same class. Even though ACQ Now may show availability, the ACQ Now site is refreshed every 24 hours. With classes filling up and forming waitlists, students will not be able to see updates until the following day.

The number of students in the Defense Department taking DAU training is more than 100,000. These courses are open to students across the entire federal government, with all military service components – Army, Navy, Air Force, DOD – as well as other service components, federal agencies and organizations registering for DAU courses at the same time.
ATA makes donations to local high school, soccer team

By Staff Sgt. David Dobrydnev
455th Expeditionary Wing Public Affairs

Through Airmen's Eyes: Refugee becomes AF nurse

By Daryl Mayer

By Staff Sgt. David Dobrydnev

The Coffee County Central High School Environmental Science class received a donation from ATA which will be used to build a functioning solar panel in conjunction with a Principles of Engineering class involving 120 students.

By Daryl Mayer

The 455th Expeditionary Medical Operations Squadron patient nurse moves, discusses inbound patient records with Lt. Col. (Dr.) Dave Hardy, 455th EMDS chief of aerospace medicine, at the Craig Joint Theater Hospital on Bagram Airfield, Afghanistan, May 9. Deployed from Lackland Air Force Base, Texas, Omar is responsible for the efficient movement of patients into the hospital, and either back to their downrange units or to further care outside the area of operations. (U.S. Air Force photo/Staff Sgt. David Dobrydnev)

The X-51A Waverider achieves breakthrough in final flight

By Daryl Mayer

The X-51A Waverider prepares to launch its historic fourth and final flight. The cruiser achieved Mach 5.1 traveling 230 nautical miles in just over six minutes, making this test the longest air-breathing hypersonic flight ever. (U.S. Air Force photo/Bobbi Zapor)

By Staff Sgt. David Dobrydnev

455th Expeditionary Wing Public Affairs

BAGRAM AIRFIELD, Afghanistan - LT. Col. Wajeeha Omar, a young Afghan girl who fled her home country to help her family in the Iran-Iraq War, is now a U.S. Air Force nurse serving deployed service members.

Omar found herself doctrine

Omar was immediately placed in the immunizations area – an encounter that would later influence the course of her own life.

As time went by though, she struggled in the new environment. She'd once thought it would be big as it was,” she said. Realizing that she could become a nurse if she wanted to, Omar decided to go to nursing school while also full-time tutoring and raising a young daughter as a single mother. Eventually, she was drawn toward the military to help her continue her education.

From the time she entered the service, Omar was deployed to, wanting to provide the type of service she had benefited from long ago in that refugee camp.

“I wanted to do the same thing that others had done for us,” she said. “I wanted to give back to those who had given us so much to ensure our care and freedom.”

Omar has now been in the Air Force more than 17 years. Her current deployment to Bagram Airfield is her first, and while her work is important it's not afraid to provide their care directly, the hospital, she realizes the importance of her role.

"It’s a huge part of the mission," she said. "I don’t provide their care directly, but I do send them home."

While Omar still hopes to do more humanitarian work in the future, today she's appreciative of the exposure the Air Force is giving her to various aspects of nursing work.

"There’s a huge variety, you never get bored," she said. "I’m learning things here that I never heard of back home."

Omar’s leadership considers her a vital part of the Craig Joint Theater Hospital team.

"(Omar) is one of the best, hardest-working officers I’ve had the pleasure of working with in my 22-year career,” said Col. Doug Houston, the 455th Contingency Aeromedical Staging Facility flight commander. "She’s very meticulous with details and is not afraid to help people to standards.

She has a bright future ahead of her.”

Omar said people often ask her how she went from a refugee to a successful officer in the Air Force, thinking that she’s either extremely smart or just had things handed to her. She said she has to study hard and work hard to reach this point.

"Part of me getting this far was not giving up... and I continue not to give up.”

Today, Omar is one of the bedrock for future air-breathing hypersonic flight ever.

The cruiser traveled more than 230 nautical miles in just over six minutes at Mach 5.1 over the Pacific Ocean May 1.

"It was a full mission success," said Charlie Brink, the X-51A program manager for the Air Force Research Laboratory Aerospace Operations Division.

The cruiser travelled...
LOS ANGELES AIR FORCE BASE, Calif. (AFNS) – A U.S. Air Force Global Positioning System (GPS) satellite built by Boeing was successfully launched May 15. The fourth GPS IIF satellite, Space Vehicle Number (SVN) 66, was carried aboard a United Launch Alliance Atlas V Launch Vehicle at 5:38 p.m. EDT from Cape Canaveral Air Force Station, Fla.

The new capabilities of the IIF satellites will provide greater navigational accuracy through improvements in atomic clock technology, a more robust signal for commercial aviation and safety-of-life applications, known as the new third civil signal (L5), and a 12-year design life providing long-term service. These upgrades improve anti-jam capabilities for the warfighter and improved security for military and civil users around the world.

“I’m extremely pleased with today’s launch and delighted to be part of this mission that enhances our nation’s critical GPS capability. Thanks to the superb efforts of the members of the 45th and 50th Space Wings, the United Launch Alliance, our industry partners, the Air Force, Boeing, and NASA, SVN 66 was successfully launched,” said Col. Bernie Gruber, director of the Space and Missile Systems Center’s Global Positioning Systems Directorate.

“The GPS constellation remains healthy and continues to meet and exceed the performance standards to which the satellites were built. Our goal is to deliver outstanding, reliable GPS capabilities to military and civil users around the globe,” Gruber said.

From the launch of its first satellite, GPS has trans-
By Staff Sgt. Daryl Kneen

2nd Fighter Wing Public Affairs

SPANGDAHLEM AIR BASE, Germany (AFNS) — Airmen here launched the final A-10 Thunderbolt II tactical sortie in Europe May 14. The aircraft flies the 32nd Fighter Wing’s 81st Fighter Squadron, which inactivates in June. The squadron’s inactivation is due to the termination of the Continuing Resolution provision and the enacting of the 2013 National Defense Authorization Act, a plan which defines the budget and expenditure of the U.S. Department of Defense. The Air Force is reviewing the structure and realigning its force in the case of an attack. The development of the A-10 as a close-air-support aircraft is in direct relation to anticipated enemy tank defenses along the route. When the tank movement never occurred, the Cold War ended. U.S. forces used the A-10 aircraft already stationed here for ground support in contingency operations worldwide.

“Every day is a different day, not just for the people in this squadron, but for anyone who’s ever served with the 81st,” said Lt. Col. Clinton Eichelberger, the 81st FS commander. “Since we’ve been here, the world has changed, and the Air Force has changed with it. Today marks the day we move forward. The people and aircraft are moving on to other units where they will continue to serve in today’s theater of operations.”

The aircraft are relocating to Moody Air Force Base, Ga., to help fulfill training requirements and force augmentation. The flight for the last four aircraft out of Germany was slated for May 17.

Lt. Col. Jeffrey Hogan receives an American Flag from Senior Airman Christopher Nicholas May 14, at Spangdahlem Air Base, Germany. This tactical sortie is scheduled to be the last before the squadron’s inactivation in June. Hogan is the 81st Fighter Squadron director of operations from Olympia, Wash. Nicholas is a 52nd Aircraft Maintenance Squadron specialist. (U.S. Air Force photo/Tech. Sgt. Jonathan Pomeroy)
A two-person scramble Guest Member Tournament will be held June 21, 22 and 23 with shotgun start both days. Cost is $25 per team and is all inclusive with lunch after Sunday’s round. Sign up for the Pro Shop by June 18.

Sausage and biscuits and gravy will be available in the Pro Shop Monday through Friday. If you have an early golf out- ing and would like a quick breakfast before you start, check out the sausage and biscuits from the Mul- ligan’s Coffee Bar & Grill open 6:30 a.m. – 10:00 a.m. Monday through Friday. Mulligan’s office is in the Arnold Lakeside Center.

The Pro Shop will have the following available starting at 7 a.m. Monday through Friday: golf balls, golf tees, golf shoes, golf clothing, golf accessories, cookbooks, children’s items, gift selection, and services. Gift cards are also available. The grill specializes in breakfast items such as eggs, bacon, pancakes, and French toast. The grill will be open Monday through Friday 7 a.m. – 4 p.m. and Saturday and Sunday 8 a.m. – 2 p.m.

Mulligan’s Coffee Bar & Grill open 6:30 a.m. – 10:00 a.m. Monday through Friday. Mulligan’s office is in the Arnold Lakeside Center.

Check us out on Face- book! Arnold AFB Services Recreation Center.

Arnold Lakeside Center (ACL) 454-3540

Check us out on Face- book! Arnold AFB Services Recreation Center

Movie Schedule

Movietimes are Thurs- day-Saturday evenings at 6:30 p.m. and dinner is available. Prices are $14 and $8 for age 12 and under.

May 23 – “Fast & Furious 6” (PG-13, 2 hr. 35 min.) starring Vin Diesel, Michelle Rodriguez and Ludacris.

May 30 – “Lincoln” (PG-13, 2 hr. 30 min.) starring Daniel Day-Lewis, Sally Field and David Strathairn.

As the Civil war rages on, President Abraham Lincoln struggles with continuing war efforts on the battlefield and as he flies with many inside his cabinet on the decision to emancipate the slaves.

“Get the Great and Powerful,” ntdg (PG, 2 hr. 10 min.) starring James Franco, Michelle Williams, Chris Cooper and Rachel Weisz. A small Kansas farmer loses his home and family, so he has no choice but to head away to an enchanted land in hopes of making a new life for himself and the struggling three between them.

“The Hunger Games: Catching Fire” (PG-13, 1 hr. 50 min.) starring Jennifer Lawrence, Josh Hutcherson, Evan McGregor, Philip Seymour Hoffman, Lenny Kravitz and Stanley Tucci. The ancient war between humans and a race of creatures called the—Jack, a young farmer who recently returned from a war he thought would rid the love of a princess, and his love journey between the two worlds.

June 20 – “Sat,ich,” a two-person scramble starting Dwayne Johnson, Tyrese Gibson, and Jason Statham.

A father goes under- cover for the DEA to get his son who was up in a drug deal. “Burt Wonderstone” (PG-13, 1 hr. 40 min.) starring Steve Carell and Mena Suvari with Morgan Freeman, James McAvoy, Jim Norton and Santiago Cabrera. A magician’s stunt goes wrong which leads to their salvation and a quest to find their own destinies.

Arnold Lakeside Center will have limited or no seating. Prices have increased due to cost of food. May 24 full menu will be available in The Landing while seating is limited and may not only be available in The Landing. The menu may be full menu for a special event.

June 20 – “Fast & Furious 6” (PG-13, 2 hr. 35 min.) starring Vin Diesel, Michelle Rodriguez and Ludacris.

First Friday Jam will be June 7 beginning at 6 p.m. in the Fitness Center. As you enjoy the jam, enjoy in join in on the jam sessions on the stage, be your own instrument or sing. Or 454-3330 to sign up for your own performance. Dinner is available from 5-8 p.m. Monday through Friday.

Arnold Lakeside Center is proud to announce our cooking competition “Cookin’ On Crockett Cove.” The new monthly event will be held June 20 and July 25, June 28 and July 26. For all foodies, this is your chance to showcase your skills.

Entry Fee: $10 per team. Each contestant will be given a list of ingredients and time to present a dish that seems to encompass the ingredients and time. The winner will be chosen by the judges. This competition is open to everyone and all entries will be given the chance to compete.

Kayaking for Beginner Class will be held at Arnold Golf Course, Thursday 7:30-9 p.m. June 20, 27 and July 4. This event is beginner class and maximum class size is 20. The event is open for ages 10 and up. Registration is required by June 18. All children under 18 must be accompanied by an adult. Entry Fee: $10 per adult, $5 per child. The number of participants will be limited to the availability of space.

Air Force Services is conducting the Annual Golf Club Member Scholarship Program. Current Members First Plus members, active duty, members who have been awarded a scholarship in an accredited college or university for entire term as a part-time or full-time student and are applying for scholarships through the club. Current members must be at least 18 years old, have a grade point average of 3.0 or higher and have been awarded a scholarship in an accredited college or university for entire term as a part-time or full-time student.

Starting Wednesday June 12, the Arnold Golf Course will open its outdoor movie nights. Arnold Golf Course: Outdoor Rec Tuesday through Sunday 8 p.m. – 12 a.m. Catering/Management offices by appointment.

Check us out on Face- book! Arnold AFB Services Recre- ation Center

Fitness Center (PC) 454-6440

Check us out on Face- book! Arnold AFB Services Recre- ation Center

Fit to Fight Competition is back! Sign up for two weeks of each week. June 7 – 22. Each week participants will be entered into the week by week winner and in the finals on June 22 – “The Hobbit: The Desolation of Smaug.” This competition is open to all Arnold member and guest who are at least 18 years of age. The deadline for entries is June 20.

The Junior Dental Health Fair will be held at the club June 21 from 10 a.m. to 1 p.m. The event is free to all children and will be held in designated Crockett Cove areas. Registration is required by June 18.

Arnold Lakeside Center is proud to host a Dart Turn- a-round Car Wash on Saturday June 29 from 9:30 a.m. – 3 p.m. The wash will be open to all Arnold Military members and their im- mediately family. All participants will receive a chocolate donut and a beverage. The first 50 people will receive a small kit to clean and detail their vehicle. There is a $10 minimum donation for each vehicle.

The Fitness Center will host the Golden Baton Relay June 19 beginning at 6 p.m. at Arnold Golf Course AFB & Stabling. Each team must have two people for the relay. Teams around the AFB and within the Arnold Military Communities must complete 4 courses of 1 mile each. Course 1 and 4 must be 100 yards and two people must complete each course. Each team will be given 45 minutes to complete each course. Prizes will be awarded to the top two teams. No children, no dogs, no pets.

Wingo Inn: Monday, Wednesday, and Friday 4-6 p.m.

The Pro Shop will have the following available starting at 7 a.m. Monday through Friday: golf balls, golf tees, golf shoes, golf clothing, golf accessories, cookbooks, children’s items, gift selection, and services. Gift cards are also available. The grill specializes in breakfast items such as eggs, bacon, pancakes, and French toast. The grill will be open Monday through Friday 7 a.m. – 4 p.m. and Saturday and Sunday 8 a.m. – 2 p.m.

The Fitness Center will host a Dart Turn- around Car Wash on Saturday June 29 from 9:30 a.m. – 3 p.m. The wash will be open to all Arnold Military members and their im- mediately family. All participants will receive a chocolate donut and a beverage. The first 50 people will receive a small kit to clean and detail their vehicle. There is a $10 minimum donation for each vehicle.

The Fitness Center will host the Golden Baton Relay June 19 beginning at 6 p.m. at Arnold Golf Course AFB & Stabling. Each team must have two people for the relay. Teams around the AFB and within the Arnold Military Communities must complete 4 courses of 1 mile each. Course 1 and 4 must be 100 yards and two people must complete each course. Each team will be given 45 minutes to complete each course. Prizes will be awarded to the top two teams. No children, no dogs, no pets.

Wingo Inn: Monday, Wednesday, and Friday 4-6 p.m.
Outdoor Rec (ODR) 454-6084

PG-13, 2 hr. 49 min. A younger and more redundant Hercules turns itself out on an “unexplored jour- ney” and finds itself trapped in a situation which is a group of dwarves to reclaim their stolen mountain home from a dragon named Smaug.

Basics of canoing is an eight-week course to come course. Come join us June 1 as we have a day on the water explor- ing canoeing. Meet at the Crockett Cove pavilion @ 9 a.m. where guests will learn about the canoe, equipment, and environment, and wet suits. Following the canoe run time, participants will pair up (2 people per canoe) and load equipment to go to the beach and practice canoeing, maneuvering, paddling and turning. A wet suit, basic self-rescue, and additional strokes will also be prac- tical. Participants will then take a tour of the lake to practice their new skills. The class will be approxi- mately 5 hours in length. Cost is $10 and the class of 20-40 participants must be at least four to take the course. Sign up by May 7. Sign up at 454-6084.

Archery Basics Class will be held June 14 for all ages. The class costs $5 and will begin at 9 a.m. in the archery range. There must be at least two to take the course and no more than 24 per class. This class will teach the basics of archery use and help to build a properly, how to shoot with correct technique and also learn some history. Boxes, arrows and targets will be provided but you must bring your own equipment if you have it.

Join Outdoor Rec for an Introduction to Hiking Class June 22 with a mid- morning hike at Old Stone Fort State Archaeological Zoo. The course costs $10 and includes safety on the trails, learning how it was found, a visit to the museum and history of Old Fort Park. The class will begin at 9 a.m. and run until approximately 3 p.m. This class is for ages ten and older. There must be at least ten people to take the class and no more than fifteen. Remember to wear comfort shoes and bring water and sunscreen if needed. Sign up by June 19.

Paintball continues to regular play every Saturday. Paintball is for ages 10 and older and ages 10-17 must have a parent permission form signed. Remember to wear appropriate clothing – long pants, a long-sleeved shirt and closed toe shoes. Regu- lar Saturday play is every weekend from 9:30 a.m. to 2:30 p.m. Those inter- ested in continued play must at least have five days between games. Pay $15 for the day. For extended play, extended play fees are allowed in three month increments and must be paid in full months between games. Reservations may be made for the next Saturday set for active duty, National Guard and Reserve military. Up to 40 days in advance for active duty military and 30 days for DOD employ- ees. All others may make a reservation in advance. Tent camping is also available and includes 50 paintballs and a tent and play underway with the direction of a staff member. Cost is $30 per person with full use of crocked ODR and includes 500 paintballs. All 10-17 year olds must be at least five years of age and all others must be at least 18 years of age. Crockett Cove offers five minute jumps to practice your new skills.
Airman faces challenge at Games as TBI victim

By Tech. Sgt. Marashah Haynes

Air Force News Service

C O L O R A D O SP RING S, Colo. (AFNS) — By looking at him, one would never be able to tell he is a battle-tested, combat-injured Airman. He is a notorious disease that could have invaded his body and just how his effects can become visible in everyday life. Capt. Mitchell Kieffer is a mathematician at heart and an urgent message to do the math on grinding light. Capt. Mitchell Kieffer spritules at the Academy indoor track during the Wounded Warrior Games Training Camp held in Colorado Springs, Colo., April 11 (U.S. Air Force photo/Desiree N. Palacios)

Airman faces challenge at Games as TBI victim

By Tech. Sgt. Marashah Haynes

Air Force News Service

C O L O R A D O SP R I N G S, Colo. (AFNS) — By looking at him, one would never be able to tell he is a battle-tested, combat-injured Airman. He is a notorious disease that could have invaded his body and just how his effects can become visible in everyday life. Capt. Mitchell Kieffer is a mathematician at heart and an urgent message to do the math on grinding light. Capt. Mitchell Kieffer spritules at the Academy indoor track during the Wounded Warrior Games Training Camp held in Colorado Springs, Colo., April 11 (U.S. Air Force photo/Desiree N. Palacios)

Airman faces challenge at Games as TBI victim

By Tech. Sgt. Marashah Haynes

Air Force News Service

C O L O R A D O SP R I N G S, Colo. (AFNS) — By looking at him, one would never be able to tell he is a battle-tested, combat-injured Airman. He is a notorious disease that could have invaded his body and just how his effects can become visible in everyday life. Capt. Mitchell Kieffer is a mathematician at heart and an urgent message to do the math on grinding light. Capt. Mitchell Kieffer spritules at the Academy indoor track during the Wounded Warrior Games Training Camp held in Colorado Springs, Colo., April 11 (U.S. Air Force photo/Desiree N. Palacios)

Airman faces challenge at Games as TBI victim

By Tech. Sgt. Marashah Haynes

Air Force News Service

C O L O R A D O SP R I N G S, Colo. (AFNS) — By looking at him, one would never be able to tell he is a battle-tested, combat-injured Airman. He is a notorious disease that could have invaded his body and just how his effects can become visible in everyday life. Capt. Mitchell Kieffer is a mathematician at heart and an urgent message to do the math on grinding light. Capt. Mitchell Kieffer spritules at the Academy indoor track during the Wounded Warrior Games Training Camp held in Colorado Springs, Colo., April 11 (U.S. Air Force photo/Desiree N. Palacios)

Airman faces challenge at Games as TBI victim

By Tech. Sgt. Marashah Haynes

Air Force News Service

C O L O R A D O SP R I N G S, Colo. (AFNS) — By looking at him, one would never be able to tell he is a battle-tested, combat-injured Airman. He is a notorious disease that could have invaded his body and just how his effects can become visible in everyday life. Capt. Mitchell Kieffer is a mathematician at heart and an urgent message to do the math on grinding light. Capt. Mitchell Kieffer spritules at the Academy indoor track during the Wounded Warrior Games Training Camp held in Colorado Springs, Colo., April 11 (U.S. Air Force photo/Desiree N. Palacios)

Airman faces challenge at Games as TBI victim

By Tech. Sgt. Marashah Haynes

Air Force News Service

C O L O R A D O SP R I N G S, Colo. (AFNS) — By looking at him, one would never be able to tell he is a battle-tested, combat-injured Airman. He is a notorious disease that could have invaded his body and just how his effects can become visible in everyday life. Capt. Mitchell Kieffer is a mathematician at heart and an urgent message to do the math on grinding light. Capt. Mitchell Kieffer spritules at the Academy indoor track during the Wounded Warrior Games Training Camp held in Colorado Springs, Colo., April 11 (U.S. Air Force photo/Desiree N. Palacios)