ACC members visit Congress in support of AEDC

By Kathy Gattis

Arnold Community Council (ACC) members recently made their annual trip to Washington, D.C., to meet with elected officials and staffers about Arnold Engineering Development Center (AEDC).

Early in the planning for this trip, the group knew they wanted to garner Congressional support for AEDC and establish a caucus. They also wanted to build a relationship with the support groups for Edwards Air Force Base, Calif.

"With the standup of the new Air Test and Evaluation Center (AFTC) being headquartered at Edwards AFB, the Arnold Community Council believes it is time to consider strategies that will benefit and protect the test center and its test assets," ACC President, Temple Bowling said.

Early in May, a Force Material Command headquarters proposed the new

By Philip Lorenz III

In the past three and a half years, he's overseen the reorganization of the Air Force's most complex and diverse command, managed some of the most drastic budget reductions in the services' history and been a champion of energy conservation.

But after 42 years, Hoffman will retire June 1, 2012, bringing to a close a career that he says launched a "great adventure" around the world.

Chief Master Sgt. Eric Jaren, AFMC's command chief, will say goodbye during a retirement ceremony at the National Museum of the United States Air Force. Gen. Donald Hoffman, AFMC commander, will preside over the ceremony scheduled to begin at 3 p.m.

Air Force Life came to a natural choice for Jaren since his father was part of the initial corps serving in the cryptographic career field. During his dad’s career, the family moved from base to base, serving in 23 assignments in 25 years in places like Crete, Tripoli, Turkey and Washington state. He found he had an affinity for different cultures, an attribute Jaren thought or find someone who can. Every day it amazes me to see what this shop can produce. I'm very proud to be a part of this workforce.”

Bishop and Scott Henniger, manufacturing services manager in AEDC’s support branch, said the ongoing work at the Model Shop is dominantly large-scale fabrication, including model support systems, mockups, piping systems and plant facility equipment.

"Some of the more recently highly visible jobs we have fabricated include the Tunnel A return-to-service rebuild, 137 seat flap update, the large Bl-52 mock fabrication, and presently the 4T CTS effort," Bishop said. “And these are primarily manufacturing efforts. We regularly have many large-scale jobs being worked simultaneously that may not have the visibility, but definitely require the same level of craftsmanship. Examples include the C2 test cell cooling piping effort, test stands, [Rocket Development Test Cell] J-6 diffuser refining and the ATK exhaust side intercooler project.”

"Examples include the C2 test cell cooling piping effort, test stands, [Rocket Development Test Cell] J-6 diffuser refining and the ATK exhaust side intercooler project.”

John Wright is the ATA investment

AFMC command chief reflects on 30-year career ‘adventure’

By Jim Palmer

Jaren “Red” Harris, an ATA ironworker, welds a connection of the 4T CTS CheckOut Stand. (Photo by Rick Goodfriend)

Aerospace Testing Alliance (ATA) Model Shop's assets remain critical to ground testing

By Brian Bracken

For nearly 60 years, a highly skilled workforce at AEDC’s Model Shop has provided critical support to aerospace ground test, investment, planning and maintenance operations with precision machining, fabrication and product installation services.

One of the first buildings constructed after AEDC’s dedication in 1951 was the “main” Model Shop. Consolidation took place 50 years later, bringing together smaller groups of craft workers and their equipment from other shops on base to the Model Shop.

Currently, the Model Shop’s workforce is busy employing capabilities provided by exponential advances in technology to meet the customer’s challenging testing requirements in the face of emerging threats.

“The skills and machines in the shop generally support fabrication and modification efforts for our customers in plants and testing,” said Wall Bishop, ATA test support branch manager, which includes Model Shop and testing, including highly skilled CNC (Computer Numerical Controlled machine) programmers, machinists, bolters, ironworkers, pipefitters, sheet metal workers and large cranes and riggers. With the experience and skills we have we can pretty much fabricate anything our customers want or find someone who can. Every day it amazes me to see what this shop can produce. I'm very proud to be a part of this workforce.”

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John Wright is the ATA investment

Increased diversity, cyberspace highlight Gen. Hoffman’s 42-year career

By Brian Bracken

WRIGHT-PATTERSON AIR FORCE BASE, Ohio - In the past three and a half years, he’s overseen the reorganization of the Air Force’s most complex and diverse command, managed some of the most drastic budget reductions in the services’ history and been a champion of energy conservation.

Gen. Donald Hoffman’s tenure as commander of Air Force Materiel Command has been anything but normal, if there is a norm for someone who leads a world-wide organization of 83,000 people.

Hoffman presided over the restructure of the AFMC command chief, will say goodbye during a retirement ceremony at the National Museum of the United States Air Force. Gen. Donald Hoffman, AFMC commander, will preside over the ceremony scheduled to be held at 3 p.m.

Air Force Life came to a natural choice for Jaren since his father was part of the initial corps serving in the cryptographic career field. During his dad’s career, the family moved from base to base, serving in 23 assignments in 25 years in places like Crete, Tripoli, Turkey and Washington state. He found he had an affinity for different cultures, an attribute Jaren thought
Corporation's web page, I learned that I was the commander of the 78th Airlift Wing, responsible for moving troops and cargo to and from Europe. As I watched the aircraft taxi away, I realized that I would never again have the honor of leading a supply train of heavy planes from across the ocean. I knew then that I would never again have the honor of leading a supply train of heavy planes from across the ocean.

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UTS2 2012 graduates included, front row, l-r: Joshua Batterston, Samuel Williams, Kaleigh Hatfield, Alexander Hamilton, Jonathan Kolwyck, Benjamin Klamm, Austin Kimbrell, James Rogers; middle row, l-r: Kevin Holst, Adam Plondke, James Rogers; mechanical engi- neering was Anthony Hartley and Austin Kimbrell; aviation systems were Jonathan Kolwyck and Samuel Williams; electrical engineering was Bryan Hayes; and industrial engineering was Kaleigh Hatfield. Receiving his Ph.D. in aerospace engineering was Joshua Batterston. Bryan Hayes is an aerospace engineer and technical leader for the Noncontact Stress Measurement System (NSMS).

At attending graduation schools were provided the Tahlequah native with a new skill set he could apply directly to his job.

“AEDC benefited from the development of small people with connections, to children who are already marketable.”

“Please enjoy your summer vacation,” St. John said. “No regrets. Keep moving forward. If you lose your mind, just remember, flowers are blooming, there are mountains, there is a great God who made the world.”

“AEDC gained experience, so that they can go out and have a good time, learn how to fish and hopefully spark an inter- est that will make them say ‘Hey Dad, let’s go fishing again, that was fun.’”

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“AEDC gained experience, so that they can go out and have a good time, learn how to fish and hopefully spark an interest that will make them say ‘Hey Dad, let’s go fishing again, that was fun.’”
Hoffman reflected on his time spent in the Air Force, during which he witnessed some major changes. He said: "What does the Air Force do? It is truly about the Air Force in our lives and in our fight. Diversity is important so everyone can trust them. That's what I will miss. That sense of community and the relationship and look forward to supporting both AEDC and Edwards AFB Leadership efforts over the past, current and future greatness of AEDC. The people making this trip are as impressive as the people we've brought forward. I hope the trip was one of the most important ones we've made for the notion of cyber. The pervasiveness of computers in our lives and in our fight..."
The director of Bonnaroo’s community relations is the guest speaker for the Southern Middle Tennessee Branch of the Project Management Institute’s Chattanooga Chapter luncheon June 12. Jeff Cuellar will give a presentation titled “Building a City and a Festival” in room H-111 at the University of Tennessee Space Institute. Cuellar is the Director of Connectivity for AC Entertainment, Director of Community Relations for the Bonnaroo Music Festival and Director of Marketing and Business Development for Great Stage Park. He is a graduate of the University of Tennessee Knoxville with a major in public relations, business and Spanish. “Join us to learn how an organization plans to build a city and a festival that spans only a few days and accommodates tens of thousands of people,” said JonPaul Wallace, vice president of Southern Middle Tennessee Branch of the PMI Chattanooga Chapter. The luncheon is 11 a.m.-12:30 p.m., and there will be door prizes. The cost to attend is $10 for PMI members and $15 for nonmembers. Payment is due June 6, or if payment is mailed, it must be postmarked by June 4. Payment may be made to Doug Brown (454-5407), Peggy Glass (454-7475), Susan Rymer (454-7683) or JonPaul Wallace (454-4904).
Jaren feels that professionalism in this new Air Force is paramount, and said that education equals mission success. He would like to see PME undertaken as an Airman progresses through the ranks earlier in his or her career.

“Our enlisted core is so professional and our jobs are so technical, that we have to have the education and the training to succeed,” he said. “We are going to have a smaller and more agile force, and that force is going to need the education and the training to accomplish the mission. The key to becoming more effective military education, and in the future we need to align the education closer with each grade.”

As Jaren prepares to close the door on a very distinguished career, he shared a final thought for the men and women of AFMC.

“Throughout a long career, I’ve learned it doesn’t matter if you are enlisted, officer or civilian, and that being an Airman comes from the heart. I’m very proud to be associated with the professionals in the Air Force Materiel Command, and I leave knowing that younger, brighter, more capable professionals are right behind me. I have great satisfaction knowing that the future of the Air Force is secure.”
project manager for the Shop’s CTS upgrade for 4T.

“The 4T Captor Typhoon Support (CTS) system is a computer-controlled six degrees of freedom mechanical system used to investigate the separation characteristics of air-launched stores. From parent tests in [AE-DC’s] Aeronautical Wind Tunnel 4T, it is known that the mechanism permits accurate traversing and separation data for the various aircraft/store combinations in the U.S. and allied military inventory.”

Wright had praise for the craft workforce handling the design and fabrication of the components for the 4T CST upgrade.

“With less than a week to go, the group tore down and disassembled the equipment. Many of the items were in the Shop’s inventory, but the most important was a site to the Iraqis.

“Throughout the deployment, we were able to see how much security of the troops all occurred thanks to the Army, it has been influential. I would advocate for anyone interested in supporting this type of Air Force mission and I will always speak positively of the Air Force’s role in supporting our airman.”

Peter Macaluso, AE-DC’s Aerospace Engineer, manager for the wind tunnels, is the customer who worked with the Shop for modifying a 10 percent scale BLU-109 Joint Direct Attack Munition (JDAM) air-launched stores from the USAF Fleet. The BLU-109 JDAM is currently being used in the Iraq mission.

“The BLU-109 JDAM was manufactured to replace the JDAM 2.0 installed as part of the one installed as part of the ASTF Plant and Test Cells. It was fabricated to replace the JDAM 2.0, the JDAM SE, to the Iraqis.

According to the Shop, the CAD drawings for the new, Iraq-oriented installation. The U.S. mission’s site was to maintain security on the main supply route until the last of the troops had withdrawn. Below we land we went over to the tactical operations center, com-}
AIAA Award recipients recognized at ALC luncheon

AEDC Commander Col. Michael Brewer, left, AIAA awards event guest speaker, looks on as Mark Rigney, ATA director of ATA Information Technology and Systems Department, presents James L. Taylor with a 2012 AIAA Tennessee Section Special Award for his application of measurement and uncertainty principles to testing at AEDC.

Don Gardner, right, ATA technology manager, presents Katie Stephens with a 2012 AIAA Tennessee Section Special Award for her support to the F-22 Class-E investigation at Joint Base Elmendorf-Richardson, Alaska.

Anthony Watts, with Jacobs Technology’s Advanced Technology Group (far right), presents the Jacobs Technology team’s (from left) Brian Garland, Mike Maples, Gene Tennyson, Rich Wakemen, Jason Brooks, Chris Porter and Bill Martin with a 2012 AIAA Tennessee Section Special Award for design of facility improvements to NASA Glenn Research Center’s Icing Research Tunnel.

Anthony Watts, with Jacobs Technology’s Advanced Technology Group, presents Grady Pike Saunders, Jacobs Technology, with the 2012 AIAA Tennessee Section Special Award for facility improvements to NASA Glenn Research Center’s Icing Research Tunnel.

Left, Dr. Heather J. Johnson, of Vanderbilt’s Peabody College Department of Teaching and Learning, and Dr. Amrutur Anilkumar, Professor of the Practice, Department of Mechanical Engineering, Vanderbilt University, right, present (left to right) Michelle Cottaman, Paul Allen and Zacharia Smith with a 2012 AIAA Tennessee Section Special Award for their STEM educational outreach activity at Nashville schools.

Don Gardner, right, ATA technology manager, presents Katie Stephens with a 2012 AIAA Tennessee Section Special Award for her support to the F-22 Class-E investigation at Joint Base Elmendorf-Richardson, Alaska.

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Far left, front, AEDC Test Division Deputy Director Navy Cmdr. Brian Allen, presented AEDC B-52H’s model team, (l - r, back row) Joe Todd, Derrick Burton, Scott Henninger, Danny Owens, Dusty Rogers, Eric Mitchell, David Taylor, Walt Bishop and Paul Denton, (l - r, second row) Moufid Aboulmouna, Greg Fox, Dwayne Taylor, R. D. Green, Don Ingle, Jason Brooks, Chris Porter and Bill Martin with a 2012 AIAA Tennessee Section Special Award for design of facility improvements to NASA Glenn Research Center’s Icing Research Tunnel.

Mark Brandon, right, ATA TAPS program project manager, presents Dr. Robert Hiers III, center, with the 2012 AIAA Tennessee Section General H. H. Arnold Award in recognition of his outstanding contributions toward advancing aerodynamic science through his work on the Towed Airborne Plume Simulator (TAPS).
Minty Knighton

Performance of the students of the outstanding programme is a true reflection of the educational standards. The best paper awards, for example, are given to students from several universities in the southeast region. The conference, held at Cape Canaveral, Fla., was attended by several universities from the southeastern region. This marks a three-year winning streak, with five best paper awards, for the graduate students of Professor Majdalani, Arnold Chair of Excellence and professor of biomedical engineering. The 5-for-5 award capture is a true reflection of the outstanding performance of the students and the significance of their research topics. The papers will be submitted to scholarly journals as suggested by the judging panel.

Barber’s award winning paper entitled, “Bidirectional Helical Tapered Rocket Chambers,” was coauthored with his advisor, Majdalani. His paper introduces a framework that can provide important physical insight into several applications, such as liquid rocket engine designs, and explain the reason of conically-shaped toroidal and tropical cyclones. Barber, a native of Cape Canaveral, Fla., said, “We are breaking ground for the military.”

The approximately $150,000 NASA 5000 3-D laser scanner and Rapidform reverse engineering software program was won best papers in the aerospace engineering student competition in Texas. Nollberg won second place with his paper entitled, “On the Sidewall Boundary Layer of Transverse Waves in Simulated Upper Level Rocket Engines.” His paper, also coauthored with Majdalani, investigates the boundary layer development due to transverse waves in liquid rocket engines. Nollberg is from Biloxi, Mississippi, and is pursuing a master’s degree in aerospace engineering.

The awards were presented by Dr. Robert Youngquist, guest speaker and lead scientist of the Kennedy Space Center Applied Physics Laboratory. (Information provided by UTSI)

Speed of cyber acquisition focus of Hanscom meeting

By Patty Welch

HANSCOM AIR FORCE BASE, Mass. — Flexibility with, and the future of, cyber acquisition was the emphasis of a presentation by Col. Bill Polakowski, Cyber Integration Division deputy, to the Hanscom Representatives Association May 22 at the Minuteman Commons.

“The message is cyber (acquisition) changes quite a bit each month as acquisition strategies, requirements and programs mature,” he said. “It’s go into actual testing, which can save hundreds of thousands of dollars.”

After one month of trials, they were able to use it to quickly build accurate digital models of aircraft and weapons for use in weapon cyber-weapon compatibility analyses.

“Before, we had to implement the equipment, but now there is a capability a system would be,” said Paul Collins, SEEK EAGLE lead engineer. “We are breaking ground for the military.”

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F-35B lifts off for first flight at Eglin AFB

By Chrsissy Cuttita

EGLIN AIR FORCE BASE, Fla. – An F-35B Lightning II made its first flight at Eglin Air Force Base today, two months after 2nd Marine Aircraft Wing officially introduced the Marine Corps’ fifth generation fighter to the world at the 33rd Fighter Wing.

“Marine Fighter Attack Training Squadron 501 has had an exciting year with the arrival of our first aircraft in January, the official roll out ceremony in February and now generating flight line, sharing capabilities to pave the way for this execution year,” said Col. Andrew Toth, 33rd FW commander. “Adding more aircraft to the fleet, filling up the flying schedule with two aircraft variants and certification classes ongoing at our 33rd AFAF Training Center are testaments of our wing’s success in standing up our nation’s Joint Strike Fighter training for future generations.”

Since 2009, the Air Force, Navy and Marine Corps have sent their best aviators and aircraft mechanics to pave the way for this execution year and beyond.

Each service’s operational squadron is colocated on the 33rd FW flight line, sharing capabilities with each other, Toth said.

“It’s another milestone in what we are calling our vision. A new piece of the puzzle has been positioned into operational users and look for more situational awareness, more virtualization, more optimization, more visualization, and we need to be more flexible to deliver that capability at the speed of cyber,” the colonel stressed that the cyber environment is constantly changing.

“It’s a very dynamic environment,” Polakowski said. “Operators need to be more situational awareness, more optimization, more visualization, and we need to be more flexible to deliver that capability at the speed of cyber.”

Utilizing virtual trainers, developing pilot curriculums and hosting small group trainings has been the focus for personnel readying themselves for flight operations to come.

“It’s amazing to believe 100 years ago Marine Corps aviation started and here today we launched this generation aircraft,” said Marine Sgt. Eric Spencer, VMFAT-501 plane captain for the F-35B section. “It’s history in the making. Every time one of these engines fires up I get pumped up and today it was a little extra.”

The power plant mechanical section said he prepared for the last six months by being involved in any F-35 maintenance training he could at the 33rd FW.

January’s arrival of the first F-35B to Eglin Air Force Base was called an historic event in Marine aviation history by the Deputy Commandant for Aviation, Lt. Gen. Terry G. Reilinger.

“With the arrival of this evolutional aircraft, the first in a line of 420 Joint Strike Fighters that we will integrate into the force, we have come full circle nearly a century since our first aviator took flight,” he said.

The Middle Tennessee Chapter of the American Society of Military Comptrollers (ASMC) hosted its first ever Enhanced Defense Financial Management Training Course (EDFMTC) at Arnold AFB May 14-18. Thirteen students were seated to learn in order to earn their certification. In order to streamline this certification process, the Education and Training Office at Arnold AFB can now proctor these exams. For more information on obtaining your CDFM certification, please visit www.asmconline.org. (Photo provided)
In Chattanooga and will last two and a half hours. During the cruise enjoy a pulled pork and barbecue dinner, watermelon, potato salad, cole slow, pickles, and tea or water. Cost for this adventure is $69 per person and deadline to sign up is June 8. Meet at Outdoor Rec at 11:15 a.m. and return the tour vehicle at 4 p.m.

Outdoor Rec: Gossick Leadership Center

Check us out on Face- book! Arnold AFB Ser vices Fitness Center

Optionally Compound clay shooting will be held June 1, 2012 – June 30, 2012. Visit the安宁 for a 15-minute introduction to clay shooting and cost is $65 per person and includes a box of 2000.

Outdoor Rec

We plan to visit a Chat tanooga for a Mud Run Tour June 23, 2012. Please register by phone or in person at the Fitness Center. The first six teams to sign up will receive T-shirts. Prizes will also be given to the first six teams. It is a budgetary and over all team score. Call 454-6440 or sign up for this event before June 4.

Outdoor Rec (ODR)

Paintball tournament is $65 per person and includes a box of 500 paintballs and a tank of CO2. Cost is $20 if you use your own equipment or need to rent equipment. Cost to enter the tournament is $25 per person and includes a bag of 500 balls and air for the day. Cost is $20 if you use your own equipment. The winning team will receive a free day of paintball approximately 9:15 p.m. for all four members of the winning team.

Regatta Our Regatta is scheduled for two hours to explore the areas of the lake and local creeks. Boats tours are available June 15 and 24 from 10 a.m. to 12 p.m. Prizes will also be awarded for the best decorated boat. There will be a booth at the market at 5:30 p.m., then you can enjoy an outdoor dinner at 7:30 p.m. Bring your chairs or blankets to the Upper belfry. June 22nd Tails” rated PG-13 starring John Travolta, Sean Connery and Michael Caine. Sean Connery is the only large river canyon carved out by 26 miles of the gorge and enjoy a tour of the lake. This class is scheduled for two hours to explore the areas of the lake and local creeks. Boats tours are available June 15 and 24 from 10 a.m. to 12 p.m. Prizes will also be awarded for the best decorated boat.

Paintball tournament Everyone is invited to take part in the fun of this activity. The winn ing team will receive a free day of paintball approximately 9:15 p.m. for all four members of the winning team.

Paintball The Air Force Marathon, presented by Northrop Grumman, will be held Sept. 15, 2012. Registration is still open and no more than 10. This Air Force Marathon of arc he to include how to build a home properly, how to improve real arc he and also learn about some of the basics of arc he if you some have it. Canoe Basics Class is coming July 11 from 11 a.m. to 2 p.m. Canoeing is an excellent sport to learn the basics of proper sitting positions, different strokes, the safety of Canoeing and how to learn as much as possible.

Paintball is $10 per person. There must be at least four to form the class and at least two classes by July 11.

Paintball tournament Paintball is a sport that is for “mammals only.” It is a very unique sport that is for everyone.

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