

MONITOR *ing Active*

Duty Doing' from around the AFTAC world

Command Section



Col. Mark W
Westergren

Commander, 2006.08 Previously, Director of Joint Operations (J-3), National Security Agency/Central Security Service (NSA/CSS) Hawaii, Kunia City, HI. Education includes: 1984 B.S. in Chemical Engineering, cum laude; 1989 M.B.A. in Finance, Webster University; 1994, Masters in International Public Policy. His professional education includes Squadron Officer School, Air Command and Staff College, USAF Intelligence School, and Joint Forces Staff College. He is married to the former Haywon Kim and has two sons, Benjamin and Evan.



CMSgt Lloyd S.
French

Superintendent, 2003.01 AF/AFTAC since '77, trained in Gamma Spectroscopy and Special Equipment Operations—has attended Leadership School and the NCO and Senior NCO Academies receiving the Levitow and Commandant's Awards. He has also earned a BS in Business Administration. The Chief has served Airborne in many capacities at all command levels. He is married to the former Michelle Rostovsky of Satellite Beach, FL. and has three children, Lindsey, Nicholas, and Christina.



To The Women and Men of AFTAC Worldwide,

CMSGT LLOYD FRENCH, CENTER SUPERINTENDENT

The day my father predicted over 30 years ago has finally arrived. I recall the scene when I told him I was quitting college to join the Air Force and all he said was, "Fine, you can quit college; but do me a favor, make the Air Force a career, because before you know it it'll be over." How right he was. Andy Rooney from CBS' "60 Minutes" really captured the effect. He said, "Time is like a roll of toilet paper...the older one gets, the faster it seems to go." When my DD-214 arrives it will show service for retirement: 30 years, zero months, and 24 days.

Service to AFTAC, the Air Force, and the United States of America is really indescribable. My good fortune to be raised by caring parents, mentored and led by passionate professionals, educated by insightful instructors, and trusted by responsible leaders culminated in a level of impact and success I never dreamed could happen.

The association with the intellects, work ethics, and personalities over the many years is the priceless memory I will carry forever more. Citing specific people here would likely serve to inadvertently alienate others who are equally important to mention...y-all know who you are though, don't you?

The reason for AFTAC's existence will continue in perpetuity. Whether it remains a military unit or takes on other forms, it will survive the cuts, realignments, politics, land grabbing, and other effects that cause other organizations to fade into obscurity. If we continue to leverage our single-most important assets—people and their ideas—we will remain (and likely grow) as a "Technical Applications Center" where the nation's toughest technical challenges meet the nation's most technically adept and motivated problem solvers.

It is with great confidence that I watch AFTAC in my rear-view mirror. Confidence born from carefully developing capable replacements, placing skills where the job is loved and the member productive, and making calls that ultimately would have (or should have) been made elsewhere regarding performance, recognition, and advancement...perhaps the most difficult decisions in the world. Others, now, must make the same calls. Upon their shoulders will rest the same weight of responsibility to the higher cause.

On January 12, 2007, at 2 P.M., at the Tides Club across the street from the AFTAC building, I will retire. I extend an open invitation to all to attend. Emotions then will be unpredictable, but accept that as a sign of attachment to a cause—love, passion, and identity. It is truly self-actualization and an honor to have culminated this ride as AFTAC's Superintendent and Senior Enlisted Advisor. Thank you to all—past and present—who paved the way. Thank you to the officers, enlisted members, and civilians who work tirelessly to keep our mission strong and vibrant in the face of adversity. Thank you—in advance—to those who must (and will) keep our nation out of Harm's way. Godspeed...and God bless the United States of America.

Sincerely,

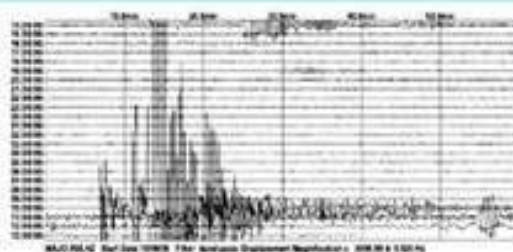
Lloyd S. French, CMSgt, USAF

Superintendent, Air Force Technical Applications Center And a Sage heartfelt thanks to you Chief, as you cross over into 'being one of the Center's Sages.' Your support of the alumni association was always there and lent needed support and credibility to our endeavors. We look forward to your continued involvement in our activities.

AFTAC keeps ear to the ground

Based at Patrick Air Force Base, AFTAC analyzes data from a network of world-wide sensors. AFTAC was aware of the apparent test of a North Korean nuclear device immediately after the test occurred. Here's how the system works:

Sensors can detect explosions in the atmosphere, underwater, underground and in space:



This image shows a seismogram chart of Matsushiro, Japan, during North Korea's reported nuclear test.

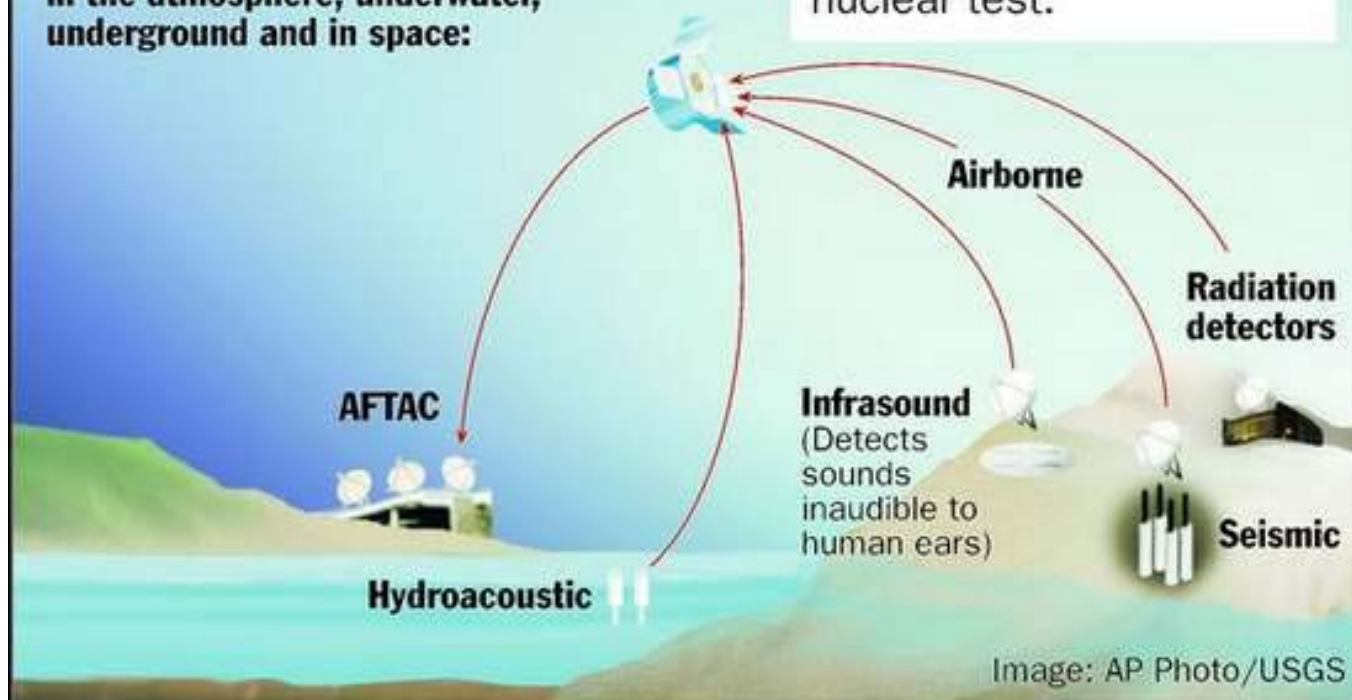


Image: AP Photo/USGS

Sources: Air Force Technical Applications Center at Patrick Air Force Base and www.tt.aftac.gov

T. Standish, FLORIDA TODAY

Agency to evaluate nuke test

Patrick-based center has diagnostic tools

BY R. NORMAN MOODY, FLORIDA TODAY, October 10, 2006

North Korea made no secret of its nuclear ambitions. But even if Sunday's nuclear test had been concealed, the explosion would have been detected at the Air Force Technical Applications Center at Patrick Air Force Base. Within the building's steel-hardened facade, technicians would have immediately picked up seismic activity from the underground explosion through more than 80 sensors around the globe that are monitored here to help keep top commanders, including President Bush, informed.

"I would assume that they would have detected

it right away," said national security expert John Pike, director of GlobalSecurity.org, a Washington, D.C.-based think tank. "They would have had somebody on watch." Commensurate with its task, AFTAC keeps to itself. Calls to the agency Monday were not returned. General details of the agency's mission are posted on the Internet, however.

The nuclear test puts North Korea in an exclusive group of nations in possession of the deadliest weapon, but also likely will isolate it even more. The test already has drawn a hardened reaction from China and South Korea and the wrath of other nations, including the U.S. "A nu-

clear North Korea poses a dire threat to peace and stability and all U.S. interests in Asia," U.S. Sen. Bill Nelson, D-Orlando, said in a statement. "That's why the international community needs to come together and make North Korea pay a heavy price for what we all agree is an unacceptable provocation." The U.S. reportedly was trying Monday to confirm that the seismic event detected was indeed a nuclear detonation, and not an explosion of another type. Pike said there could be some ambiguity as to whether a seismic event was a nuclear or chemical explosion. Other data, including satellite image and airborne sensors, would help confirm the North Korean's claim of a nuclear test. Visually, a nuclear test likely would produce a crater 2,000 to 3,000 yards in diameter, Pike said. It's unknown what other data already had been gathered.

The Air Force will say little about the unique nuclear monitoring mission done at the four-story building at the edge of State Road A1A, across from the base's club for enlisted personnel and officers. It is the sole Department of Defense agency operating and maintaining a worldwide network of nuclear detection sensors. So important is the center that SR A1A was closed immediately after the terrorist attacks of Sept. 11, 2001, and then restricted to two lanes while a barrier was built and the building's front strengthened. In the months before it was reopened, it remained restricted to small vehicles.

If the AFTAC system senses a disturbance underground, underwater, in space or in the atmosphere, it is analyzed for nuclear identification and the findings reported to National Command authorities through the Air Force headquarters. The system is designed to detect events, identify the source and even collect samples from the event if fallout drifts into a country that grants the U.S. access. After the seismic detection, AFTAC would continue gathering and analyzing data. In addition to seismic sensors, it has hydroacoustic monitors, and also gathers data from ground-based monitors and from airborne samples. "Then I think they go to work on it," Pike said. The seismic data can locate the general area of the detonation within 15 to 20 miles. Satellite images of the sub-crater created by even a deep explosion would give more data. "It will tell you the efficiency of the device," Pike said. *Contact Moody*

at 242-3651 or nmoody@flatoday.net.

AFTAC, Change of Command

MASTER SGT. PATRICK MURPHY (SINCE RETIRED), CENTER PUBLIC AFFAIRS

Col. Mark W. Westergren assumed command of the Air Force Technical Applications Center during a change-of-command ceremony at the center Aug. 8. Colonel Westergren succeeds Col. Guy Turner, who commanded the center since July 15, 2004. Colonel Turner retired after a 26-year career.

The newest AFTAC commander previously served as the director of joint operations for the National Security Agency Central Security Service in Kunia City, Hawaii.

As AFTAC commander, Colonel Westergren oversees the center's worldwide mission to operate and maintain the U.S. Atomic Energy Detection System, which monitors foreign compliance with the treaties limiting nuclear testing. The USAEDS is a global network of nuclear event detection sensors that record disturbances underground, underwater, in the atmosphere and in space. NOTE: Other information in this article (schools, assignments, etc) was provided in the June, '06 issue.

FOLLOWING ARE EXCERPTS FROM THE OCT, '06, CENTER MAGAZINE, AFTAC FAMILY

MSGT MURPHY, AFTAC PA, EDITOR

Quarterly Award Winners

Third Quarter 2006

(July 1 – Sept. 30)

Junior-Level Civilian

Ms. Diaz, Logistics and Systems

Mid-Level Civilian

Mr. Redman, Logistics and Systems

Senior-Level Civilian

Mr. Fox, Nuclear Treaty Monitoring

Airman

Senior Airman Lineberry, Logistics and Systems

NCO

Tech. Sgt. Rice, Atmosphere and Space

Senior NCO

Master Sgt. Mantell, Atmosphere and Space

Junior Technician

Amn. Devine, Materials Technology

Senior Technician

Tech. Sgt. Ballinger, Logistics and Systems

Company Grade Officer

1st Lt. Dratz, Materials Technology

People Page Recognition

Promotions, decorations, awards, birthdays, welcomes, farewells, retirements and birthdays are just some of the forms of recognition on this page.

Command Section (CC)

Congratulations to **Senior Master Sgt. Nederhoed** on receiving the Meritorious Service Medal.

Operations (DO)

Congratulations to **Senior Airman Scott** on graduating from Airman Leadership School. Congratulations and farewell to **Senior Master Sgt. McMiller** on his retirement. Congratulations to **Airman First Class McDaniel, Amn. Emmons** and **Amn. Gabhart** on their first year in the Air Force. Welcome to **Senior Airman Swanson**.

Logistics and Systems (LS)

Congratulations to **Capt. Navarro** on receiving the Meritorious Service Medal. Congratulations to **Senior Airman Martin** on graduating from Airman Leadership School and winning the Levitow award. Congratulations to **Staff Sgt. Beckett** on receiving a recognition coin. Congratulations to **Airman First Class Carlson, Airman First Class Gunkel** and **Airman First Class Hawkins** on their first year in the Air Force.

Materials Technology (TM)

Congratulations to **Lt. Col. Wierschke** on his selection for promotion to colonel and to **Airman First Class Smith** on his selection for promotion to senior airman below the zone. Congratulations to **Airman 1st Class Porter** on her first year in the Air Force.

Nuclear Treaty Monitoring (TT)

Congratulations to **Maj. Deluca** on receiving the Aerial Achievement Medal. Congratulations and farewell to **Master Sgt. Brotherton** on his retirement.

Plans and Programs (XP)

Congratulations to **Senior Master Sgt. Lambert** on receiving the Joint Service Commendation Medal. Congratulations to **Mr. Bothwell** on 10 years of civilian service. Welcome to **Ms. Bryson**. Farewell to **Capt. Daniels** and congratulations on receiving the Air Force Commendation Medal. Farewell to **Ms. Black** and **Senior Airman Swanson**. Happy birthday to **Staff Sgt. Cobarruviaz, Ms. Osterloh, Master Sgt. Morris, Mr. Rousseau, Tech. Sgt. Jackson** and **Ms. Engh**.

Detachment 319

Congratulations to **Senior Master Sgt. Revels, Master Sgt. McFadden, Tech. Sgt. Ellis, Tech. Sgt. Lloyd, Tech. Sgt. Dodson** and **Staff Sgt. Workman** on earning associate degrees from the Community College of the Air Force.

Later, 11.03, MSgt Murphy, PA passed this on:

AFTAC scientist wins Air Force Science and Engineering Award



Capt. Krystal Walker of AFTAC's Materials Technology Directorate led a five-person staff in establishing an interim AF research and development laboratory and then successfully implementing a \$2-million construction plan that established a permanent facility.

"Teamwork is essential, especially when you have limited resources and unlimited requirements," she said. This project

would never have been successful without my team. They deserve as much recognition for this award as I do." Captain Walker and her team tackled more than 200 action items to deliver the facility a year ahead of schedule and cut the unit's dependency on contractors in half while implementing stringent quality control procedures.

"This was a huge project with lots of moving parts, and she handled it with the utmost professionalism," said Lt. Col. Scott Wierschke, Materials Technology Directorate deputy director.

The captain led her team through the complicated laboratory validation, passing all four tests in the first attempt. She initiated weekly lab sterilization and contamination monitoring and certified the laboratory for use. She also prevented the lab from shutting down during an emergency situation. In a letter to Captain Walker, Air Force Chief Scientist Mark Lewis congratulated her for her noteworthy achievements, outstanding research management and commitment to service. He also wrote that this prestigious award is given to fewer than 1 percent of the research managers in the Air Force.

Despite the praise and attention, Captain Walker humbly remains focused on her daily duties. "I'm honored to have been recognized for my work," "Day to day, I try to remember all the things I did right along with all the things I did wrong and pass the knowledge on to others."

The captain's advice for someone working a similar project is to develop a good relationship with everyone, from safety to security, from communications to contracting. She worked diligently with government civil engineers and a local contractor to meet all requirements in spearheading the building modification that ingeniously converted an aging 1950's-era facility into a state-of-the-art laboratory. "Sooner or later you will need someone's expertise," she said. "Listen to advice but make your own decisions."

Booster's Club Update

TSgt JOHN OAKES, AFTAC/THO, BOOSTER'S CLUB PRESIDENT

The Winter Social was December 15th in the Imperial Garden at the Imperial Hotel.

2007 Officers have been elected: SrA Jennifer **Moosman**, President; TSgt Byron **Halliburton**, Vice President; TSgt Bernadette **Jones**, Secretary; TSgt Raphael **Grace**, Treasurer; TSgt Rob **Thur**, Hot Dog Sales; SrA Nicole **Lineberry**, Public Affairs; Ms. Pat **Snyder**, Clothing Sales.