

MEN VS. MOUNTAINS

Academy grad, wingman tackle 7 Summits — Page 4

McCOOL HONORED

Wolfpack cadet named best in Air Force — Page 7

10 THINGS ABOUT ...

AF Volleyball's Caroline Kurtz — Page 12

ACADEMY SPIRIT**FALCONS SOAR OVER COUGARS**

Four players double in 68-58 win

— Page 9

FalconSAT-5 lifts into orbit**Up, up and away:**

The rocket carrying FalconSAT-5 lifts off from Kodiak Launch Complex, Alaska, Nov. 19. FalconSAT-5 is an Air Force Academy satellite designed, built and tested by seniors in a capstone astronautics project. FalconSAT-5 is expected to remain operational for up to three years. Cadet satellite operators will also continue controlling and exchanging data with FalconSAT-3, which continues its operational life. Meanwhile, the FalconSAT team is already busying themselves with the design of FalconSAT-6, another AFRL-sponsored small satellite intended to demonstrate innovative propulsion technologies along with carrying space environmental sensors. FalconSAT-6 is planned to be complete in 2013 with a launch date and booster to be determined.



U.S. AIR FORCE PHOTO

A converted Minotaur-IV ICBM carried FalconSAT-5 into orbit from the Kodiak Launch Complex in Alaska Nov. 19.

FalconSAT-5 was designed, built and tested by Air Force Academy Class of 2010 cadets as part of the FalconSAT capstone astronautics program.

Col. Marty France, permanent professor and head of the Academy Department of Astronautics, accepted satellite control author-

ity from the Space Test Program's Col. Carol Welsch after FalconSAT-5 separated from the Minotaur IV booster.

Cadets performed the first contact missions with the satellite after troubleshooting a problem with a ground-based antenna here.

"We really appreciate the worldwide support over the last couple of days, from the launch site, a great turnout at the launch party, early contact runs and the

many well-wishers," an Astronautics Department official said on the USAFA Astronautics Facebook profile.

FalconSAT-5 carries Department of Defense Space Test Program experiments designed to study Earth's ionosphere and its impact on radio-frequency communications.

(Information compiled from the Department of Astronautics and staff reports.)

Study: DADT repeal offers few risks

By Lisa Daniel

American Forces Press Service

WASHINGTON (AFPS) — The risks associated with overturning law and policies to allow gays to serve openly in the military are low if defense officials and military leaders allow the proper amount of time to train troops on the change.

That was the message Monday from the leaders of the Pentagon working group as they made public their findings in a nine-month study of the likely effect of repealing the so-called "Don't Ask, Don't Tell" law.

"The reality is that there already are gay men and women serving in today's military and most servicemembers recognize this," Defense Department General Counsel Jeh C. Johnson told reporters at a Pentagon news briefing announcing the report's release.

In March, Defense Secretary Robert Gates appointed Johnson and Army Gen. Carter Ham, commanding general of U.S. Army Europe, to lead the comprehensive review. The review team consisted of 49 military members and 19 civilians, and reached out to hundreds of thousands of servicemembers in what officials say was the largest assessment of military men and women's feelings about any personnel issue ever.

Repeal, in the short term, "likely would bring about some limited and isolated disruption to unit cohesion and retention," General Ham said. However, he added, "We do not believe this disruption will be widespread or long-lasting, and can be adequately addressed by the recommendations we offer."

In the long term, Mr. Johnson said, "with a continued and sustained commitment to the core values of leadership, professionalism and respect for all, we are convinced that the U.S. military can adjust and accommodate this change just as it has with others in history."

The review team heard from 115,052 servicemembers and 44,266 military spouses in response to its survey on the matter, and another 72,384 comments from servicemembers and their families who responded online regarding the issue. They held 95 in-person forums with 24,000 servicemembers at 51 military installations, and held 140 smaller focus groups. They also contracted Rand Corp. to update its 1993 study on gays in the military and solicited feedback from veterans groups and organizations for and against repeal of the law, as well as many foreign allies who allow gay servicemembers to serve openly.

In addition, reviewers met with former servicemembers who are gay, including some discharged under Don't Ask, Don't Tell.

Editor's note: A more comprehensive version of this story is available at <http://bit.ly/dMQ5dm>.

Overcoming a PT Test Failure

By Tech. Sgt. Sandra Hummel
10th Medical Group

Throughout my 15 years in the military, I have always struggled with passing my physical fitness test. I'm not a huge person, and I am very active in sports. I run three to five times a week and coach youth sports as well. But no matter what I did, I always came very close to failing my PT test, often passing by a mere 0.55 pts.

In October 2009, I had a surgical procedure which limited the types of exercises I could do. I was limited to biking on a stationary bike, no push-ups, sit-ups or running. I don't have a bike and used it as an excuse to not exercise; as a result, I gained weight and lost my cardiovascular endurance. I took my PT test and, naturally, failed it.

I was devastated! I thought to myself, "What am I going to do?" I don't have a bike, I am still on a profile and limited to the types of exercises I could do.

My commander stepped in. She invited me to attend spin classes at the base gym with her at 5 a.m. Five a.m.! This meant I had to get up at 3:50 a.m. and leave my house no later than 4:20 a.m. I struggled with the idea, but I knew I had to do something. I attended the classes regularly and, slowly but surely, lost the weight. Additionally, I made great friends and even encouraged some of my other co-workers to attend. It wasn't as bad as I had thought.

As my next PT test approached, I got stronger, and my profile changed from not doing anything to doing the bike and crunches. I passed that PT test but still had to worry about retaking the test six months later the regular way, under the new standards. As the time approached, I transitioned from the bike to running. I went on the

dreaded blue track every day, starting off slow and barely able to run three laps. I practiced and became stronger every day and eventually I was able to run all seven and a half laps without stopping but realized my run time was still slow. I consulted the gym experts and practiced all their suggestions to increase speed but nothing seemed to work.

A week away from my PT test, I was terrified that I would not pass my test. Since my surgery, I had lost 20 pounds with proper eating and exercise but it still didn't seem to be enough. I knew I needed help.

I had heard rumors about a captain in our facility who was a great runner. She was so physically fit that she got a 100 on her PT test. I figured, what the heck, why not ask her to pace me on my PT test. I was embarrassed and shy at first about asking her, but I mustered up some courage, knowing that I had to pass, and walked down to her office and asked her. She was honored to be asked and agreed without hesitation.

We talked about my strengths and weaknesses; she gave me hints about things to do prior to my PT test and gave me a run time goal. I told her that her goal was doubtful but any help I could get from her was greatly appreciated. I followed the captain's suggestions, and the big day came. I was so nervous! I arrived early with butterflies in my stomach but with a good attitude. Time went by and the captain still was not there. My nervousness increased. All the testers lined up for the first portion of the test which was push-ups, still no captain.

Then, all of a sudden, she arrived with her hair frazzled, water bottle in tow and sweaty from a 5k she just finished running. I thought to myself, "Wow! She just ran a 5k and is still willing and able to run with me, that is an amazing woman!" While we did

our push-ups and sit-ups, she not only encouraged me but the other testers as well. Finally, the time came for the run and we walked out onto the track. I looked at this big blue circle and told myself over and over, "I can do this!"

I began running with Capt. Tess Marcial encouraging me every step of the way, prodding me harder when I slowed down. What made this run even more eventful is that, to my surprise, my officer in charge, Capt. Michelle Fronzaglia, and my NCO in charge were also out there cheering me on. When I was close to finished and neared the last bend, Captain Fronzaglia started to yell at me, "Where's that New York attitude you give me at work? Run it out!"

I finished the test in exactly the time Captain Marcial suggested earlier that week. I was exhausted but exhilarated! When I caught my breath, I looked at my cheerleading team and asked them, "Did I pass?" The score was tallied up, and I was amazed: I got 88.4 points, my best run time and PT test score ever! I was so excited that I told everyone who crossed my path. Even people who didn't know me! I overcame a PT test failure, not with a barely passing score, but with a score I could be proud of.

If it weren't for such great wingmen in my life — my commander, OIC, NCOIC and a person with absolutely no connection to me other than a hello and goodbye, I would not have done as well. These people were there for me every step of the way encouraging me to do better. I hope to one day do the same for someone in my position. Even though my PT test is over, I still continue to strive for bigger and better things, including finishing my first biathlon with a good wingman. I may not be the fastest or strongest person in the world, but I know with wingmen like these, I don't need to be.

BOY & BLUES

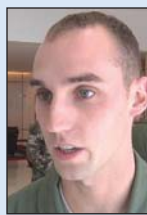


"How do you get through the 'dark ages' of winter?"

"Keep your sanity. Don't let finals bog you down. Don't let school dominate your life or you'll go crazy."
Cadet 2nd Class
Dakota Risner,
Cadet Squadron 19



"Keep a positive attitude: smiling, saying hi to everybody in the hallway, taking a break to see how other people are doing."
2nd Lt. William Pecoski,
Department of
Astronautics



"Try to find an activity, like skiing or off-roading, something you can do out in the snow. Build a snowman."
Cadet 1st Class
Mike Mosteller,
CS 25



"Going to bed at Taps and getting plenty of sleep, that's what keeps me going."
Cadet 1st Class
Jocelyn Cravens,
CS 16



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Exhibit's imagery symbolizes 'Justice Distorted'

By David Edwards
Academy Spirit Staff Writer

For people who haven't heard the gripping story of Todd Newmiller, there are a number of ways to learn about the Air Force Academy professor's son who was convicted of murder in 2006.

There are YouTube videos, blogs, even a 2009 documentary film called "The Todd Newmiller Project." For one week, visitors to the Permanent Professors Gallery on the third floor of Fairchild Hall will have another way: through Mr. Newmiller's stained-glass artwork.

The title of the exhibit, "Justice Distorted," provides a few hints. In addition, to the stained glass, the exhibit features text written by Academy English professor Bill Newmiller, Todd's father, and also more than a dozen paintings by curator Pam Aloisa.

"It comes from our experience with our son, who was accused of a murder he didn't commit," Bill Newmiller said. "For us as a middle-class family that's never been involved in the criminal justice system, it's been a real eye-opening experience. We're still stunned to find ourselves in this situation. It's a universe we never thought we'd populate."

The basic facts of the case are straightforward enough. In November 2004, two groups of men became embroiled in a heated discussion outside a Colorado Springs strip club, according

to various newspaper and online sources. Words quickly gave way to actions as a fight erupted between two of the antagonists.

But in the haze of muddled and contradictory accounts of subsequent events, it seems only one thing is certain. One of the participants in the fight, 22-year-old Anthony Madril, returned to his group's vehicle saying he'd been stabbed. He was rushed to Memorial Hospital, where he was later pronounced dead.

The person who was fighting with Madril was a companion of Todd Newmiller named Brad Orgill. He arranged a plea bargain with prosecutors, and when someone was finally put on trial for Madril's murder, it was Todd Newmiller, not Brad Orgill.

Despite this disconcerting turn of events, the Newmiller family and Todd's many supporters were certain that the prosecution's theory of the crime was so farfetched that a jury couldn't possibly buy it. They were shocked and dismayed when the verdict did not match expectations.

The people who have been convinced of Todd Newmiller's innocence from the get-go say the case is the worst miscarriage of justice they know of. The case was impacted by lost evidence, changing statements and comments by a juror that indicated reasonable doubt had existed.

All efforts to overturn the conviction



CAROL LAWRENCE

In the details: Culteron, a piece by Todd Newmiller, is on display here through Dec. 10.

and win a new trial have so far failed. And so Todd Newmiller now resides at the Arkansas Valley Correctional Facility in Crowley, having served four-and-a-half years of his 31-year sentence.

At first, he took part in a program that let inmates do computer-aided drafting, but it was canceled. His next diversion was the hobby shop, where he produced the pieces that are on display in the "Justice Distorted" exhibit. Budget restraints, however, spelled the end of the hobby shop.

"If you press people, you'll find out that nobody comes out of prison better than they came in," Bill Newmiller said. "When you're in a medium-security prison, it's hard to find kindred spirits. (Todd) has found out that there are people who really need to be in prison. But many others are just serving out their time."

Todd Newmiller is not allowed out to see the exhibit of his artwork. The best

he can do is look at the photographs his father brings him.

The intricacy of the pieces is remarkable, especially in the Japanese-themed set "Qui Vive." In addition, "Zombie Jesus" and the various facemask-type objects in the exhibit tug at the eyes with their strong colors and striking imagery.

Ms. Aloisa's paintings supplement the stained glass and demonstrate many of the same qualities. She said she's trying to interest the Denver Art Museum in hosting the exhibit after it departs the Air Force Academy Dec. 10. But while it's on campus, both she and Bill Newmiller hope people will be drawn in enough by what they see to learn more about the background story.

"I've been on the faculty here for 27 years," Mr. Newmiller said. "I cannot imagine a more supportive place and a more supportive group of colleagues. That's been a great comfort."

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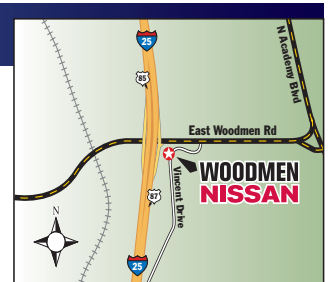


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Academy grad, wingman prepare for Antarctic climb

by Capt. Lauren Johnson
1st Special Operations Wing Public Affairs

HURLBURT FIELD, Fla. (AFNS) — An Air Force Academy graduate is one of two Airmen assigned to Hurlburt Field, Fla., who are putting the 1st Special Operations Wing motto to the test.

While most of their friends and colleagues indulged in the family, food and football of the Thanksgiving holiday, 2001 Academy graduate Capt. Rob Marshall, with the 8th Special Operations Squadron, and Capt. Graydon Muller, with the 6th SOS, left behind the comforts of home for the austerity and isolation of Antarctica.

The Airmen made the long trip to the world's coldest continent Nov. 24 with a goal of scaling Antarctica's tallest mountain, 16,076-foot Vinson Massif. It's a task for which they say the military, and specifically Air Force Special Operations Command's focus on physical fitness and the 1st SOW's "Any Time, Any Place" mentality makes them ideally equipped.

"We think it fits well with the military mindset," Captain Muller said. "There's a lot of teamwork involved in mountaineering, a lot of goal-setting, a lot of risk management."

The climb is part of a larger effort called the U.S. Air Force Seven Summits Challenge, an endeavor for Air Force

members to carry the Air Force flag to the highest point on each continent and to be the first U.S. military group to conquer all seven peaks.

"The Seven Summits is about Airmen setting a goal that some would think would be unobtainable and gutting it out to achieve it," Captain Marshall said. "It's about camaraderie and pushing each other to achieve new heights."

While this particular height is relatively low and the climb only moderately technical when compared to the others the group has already conquered — Mount Elbrus (Asia, 18,510 ft.), Mount Kilimanjaro (Africa, 19,340 feet), Mount Aconcagua (South America, 22, 834 ft.), and Alaska's 20,300-foot Mount McKinley — the area's remoteness, extreme temperatures and potential for hazardous winds make it uniquely challenging.

Vinson Massif is part of the Ellsworth Mountains, which rise majestically and menacingly from the icy Antarctic landscape. Largely due to its isolation, Mount Vinson was the last of the seven summits to originally be scaled. It was as recently as 1966 that an American team sponsored by the National Geographic Society first submitted the peak.

Even decades later, the Airmen said transportation remains an obstacle.

"Probably the most significant hurdle we ran into was getting to Antarctica and



COURTESY PHOTO

Capt. Rob Marshall prepares to ski down from the summit of Mt. Elbrus, the highest peak in Russia, with fellow Airman and mountaineer Capt. Mark Uberuaga.

close to the mountain," Captain Marshall said. "There's only one commercial company in the world that flies you to Antarctica."

Their route will bring them by way of Punta Arenas near the southernmost tip of Chile, the closest landmass at more than 600 nautical miles away. After two days of preparations in Chile, the Airmen will fly to Antarctica's travel hub, Patriot Hills, the continent's only privately-owned arctic base. From there, they


will take a ski-equipped turboprop Twin Otter aircraft to Vinson Massif's base camp.

"The other option was to ride a boat to the coast, then ski or dogsled to the mountain," Captain Muller said. "It's doable, but it takes so much more time."

The odyssey of traveling to the continent epitomizes the distinctive challenges — and for some, the fascinations — associated with the Ant-

See ANTARCTIC Page 6

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Antarctic

From Page 4

arctic adventure.

Antarctica itself is a land of extremes. Southeast from the continent's highest point is the world's lowest exposed elevation, the Bentley Subglacial Trench, which descends 8,200 feet below sea level. Approximately 98 percent of Antarctica's landmass is covered by a vast sheet of ice which measures, at its thickest, more than 15,000 feet. This frozen sheath gives Antarctica an average elevation of 6,100 feet above sea level, the highest of all seven continents. Because its perimeter is defined by ice, the continent roughly doubles in size during the winter.

Despite its topography, though, Antarctica is considered a desert. The interior receives less than two inches of precipitation every year, qualifying it as one of the driest places on earth. The base camp of Vinson Massif accumulates only about 18 inches of snow every year. It is also the coldest, averaging around negative 20 degrees Fahrenheit in the month of November, and, thanks to gravity-driven katabatic winds, the windiest continent.

Captains Marshall and Muller admit that the thought of entering Mother Nature's untamed lair is a bit intimidating, but say their experience in AFSOC has helped prepare them for operating in such harsh conditions.

The Airmen met with Dr. (Maj.) Michael McBeth, the 6th SOS flight surgeon, who has seven years AF-SOC medical experience working with special tactics personnel in a wide range of environments to include cold weather, and Tech. Sgt. Tommy Ward, a 6th SOS independent duty medical technician and paramedic, who recently returned from a training course in high-altitude medicine.

"We primarily discussed altitude illness and recognition of symptoms, prevention and self-treatment, as well as safety of the member and providing care and assistance to teammates," Major McBeth said. "We also discussed frostbite recognition and treatment, which was one of the things they were really concerned about due to the extreme cold of this environment as compared to some of their other climbs."

The medics also provided the Airmen with individually-tailored travel medicine kits and training on how to administer treatments for both minor issues and more serious conditions such as altitude-related illnesses.

"I've seen people get ill or die from either being ignorant or not recognizing or understanding altitude sickness, which then leads to a more complicated

medical condition like high-altitude pulmonary edema (where the lungs fill with fluid) or cerebral edema (swelling of the brain)," Captain Marshall said. "But it's hard to get to a state of altitude sickness when you know what you're looking for and know about the medical causes."

"The special training the medics have been through was extremely useful," Captain Muller agreed. "They obviously have a wide range of experience with all kinds of environments. At the 6th SOS we almost always have people spread across the six populated continents, so our medical team is constantly ready for anything."

His position in the 6th SOS offered another advantage for Captain Muller as well. As an incoming member to the squadron, he recently participated in the Combat Aviation Advisor Mission Qualification Course through the AFSOC Training Center here.

According to the course director, Vincent Milioti, the training is roughly a year long and is designed to equip special operators to deploy, operate and survive in a variety of environments fulfilling missions in foreign internal defense, counterinsurgency operations and unconventional warfare. The curriculum covers areas such as advanced survival skills, small unit tactics, land navigation, mission planning, advanced communication and tactical combat casualty care.

"It's a broad range of skills that you might use as a military member deployed to an isolated area," Captain Muller said, adding that the physical demands of the course were specifically beneficial in his off-duty pursuits. "It put me in the best shape of my life and incidentally prepared me quite well for the climb."

Embracing the principle of "train like you fight," the Airmen have also been stair climbing with 60-pound backpacks and towing a weighted kayak to simulate pulling a supply sled.

"I think it's awesome you can train for a 16,000-foot arctic mountain living in Florida at sea level when it's 70 degrees in November, purely using the facilities available to us on base," Captain Marshall said.

The training is the final piece of a puzzle the Seven Summits team has been building for several years. Other key pieces seemed to recently fall into place.

"You need a lot of experience to go to Antarctica," Captain Marshall said. "The fact that we had two experienced climbers stationed together who could handle the funding and the schedule; it was too good an opportunity to pass up."



COURTESY PHOTO

Capt. Graydon Muller poses at the summit of Mt. Kilimanjaro, the highest peak in Africa, in July 2006.

The Airmen aren't completely on their own, however. Once in Antarctica, they joined a group of fellow mountaineering enthusiasts eager to scale Mount Vinson's summit.

"We ended up getting support from a mountaineering mentor, who happened to be going down to Antarctica at this time," Captain Marshall said. "He basically said, 'Team up with me!'"

The mentor, Phil Ershler, has conquered the Seven Summits and was half of the first husband and wife team to accomplish the feat. If all goes well, he may soon be part of another first as the Air Force Seven Summits team passes a critical milestone in their mission to climb all seven peaks.

But beyond the glory of that looming accomplishment, and what will perhaps be a greater driving force in the captains' success than their training and preparation, is a humble reminder of what unites them as AFSOC personnel, Airmen and U.S. servicemembers.

"(The Seven Summits) has become a tribute to the U.S. servicemembers who have fallen in battle since (Sept. 11, 2001)," Captain Marshall said. "We'll be placing a plaque on the summit in their memory."

The expedition is expected to take approximately two to three weeks.

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'Wolfpack' cadet named best in AF

By Staff Sgt. Don Branum
Air Force Academy Public Affairs



Cadet McCool

An Air Force Academy cadet assigned to Cadet Squadron 05 was named the Air Force's cadet of the year Wednesday.

Cadet 1st Class Christopher McCool was recognized for his outstanding academic, athletic and military performance.

Cadet McCool is in the top 5 percent of his class academically, in the top 4 percent athletically and in the top 1 percent in military performance.

As the summer 2010 director of operations for the Cadet Wing, Cadet McCool oversaw training and equipment support for more than 2,300 cadets and was responsible for the discipline of the entire wing. As the Cadet Wing Athletic NCO for the Fall 2009 semester, he oversaw the Air Force's largest intramural sports program and implemented a new playoff system that is now a permanent fixture in the intramural program.

Cadet McCool was hand-picked for the Combat Skills Training cadre and aggressor team, training 11 cadets in the survival and evasion tactics they

would need once they became pilots. He also led 35 basic cadets during Basic Cadet Training and ensured a flawless commissioning ceremony for CS 05's Class of 2010 graduates.

He also involved himself in community outreach, volunteering time to participate in an elementary school science carnival and helping to clean up Memorial Park in Colorado Springs. He volunteered to forego his summer leave, instead traveling to the U.S. Central Command area of responsibility to learn more about deployed Air Force operations, and he coordinated deployment requirements for nearly 50 other cadets.

The Cadet of the Year Award, sponsored by the Air Squadron and established in 2000, recognizes the most outstanding cadet among the Air Force's ROTC and Officer Training School commissioning programs and the Air Force Academy.

Previous winners include 2009 winner 2nd Lt. Ryan Castonia, a Massachusetts Institute of Technology graduate, 2008 winner 2nd Lt. Kenneth Grosselin III and 2007 winner 2nd Lt. Brandon Dues, both Air Force Academy graduates.

Truman lecture focuses on Afghanistan policy



Dr. Michael O'Hanlon

A senior fellow in foreign policy at the Brookings Institution spoke about American policy on Afghanistan during the annual Truman Lecture Nov. 18.

Dr. Michael O'Hanlon presented a frank discussion of American strategy, including mistakes made by politicians and the military, a critique of the current strategy and prospects for the future.

Brig. Gen. Dana Born, the Academy's dean of the faculty, lauded Dr. O'Hanlon as "one of the best speakers we've had for his ability to take on the military and balance it with humor and praise."

Dr. O'Hanlon specializes in U.S. defense strategy, the use of military force, homeland security and American foreign policy.

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Slimy research by cadets holds spectacular promise

By David Edwards
Academy Spirit Staff Writer

In a television commercial now airing, an ExxonMobil researcher recounts his graduate research at the University of California at Berkeley in the 1970s. His adviser asked him if he wanted to change the world. When the adviser received an affirmative reply, he said, "Let's make some algae."

The Air Force Academy wants in on that whole "changing the world" thing, too. That's why cadets in three disciplines are echoing the call to "make some algae."

New Academy chief scientist Col. Brent Richert has said that the main criterion in deciding research projects is the extent to which they will benefit cadets. As biology instructor Dr. Don Veverka, the director of bioenergy research, can attest, that is happening with the algae research.

"By dramatically expanding cadet and faculty research programs beyond typical laboratory setting, we place our young leaders into hands-on research experiences and thereby enrich the experiences of cadets," Dr. Veverka said. "Every attempt is made to link research-minded faculty with highly motivated cadet scientists."

At the Life Sciences Research Center here, that symbiosis is resulting in some truly cutting-edge experimentation with algae. As the scientist in the TV commercial says, "algae are amazing little creatures." Many aquarium owners would beg to differ, but the cadet researchers aren't thinking about fish tanks when they do their work. They're trying to help the Academy achieve its green-energy goals and develop a biofuel with benefits for both the Air Force and commercial interests. The Air Force is the largest energy consumer in the U.S. government, and every \$10 increase in a barrel of oil slams the Air Force with a \$500-million bill.

The budgetary incentive dovetails with the concern for national security that is frequently cited as a compelling justification for bioenergy development.

Air Force officials have said dependence on foreign oil is a detriment to national security, and the country has a vested interest in developing reliable domestic sources of energy.

Toward those ends, Academy cadets studying biology are looking for ways to accelerate oil accumulation in algae. Cadets in the management field are working with a private-sector partner, Cool Clean Technologies in Minnesota, to develop a business model for algae extraction. And chemistry cadets are studying certain species of algae with an eye toward hydrogen production.

Besides Cool Clean Technologies, other partners are helping the cadets with the algae research. Among them are Brooklyn College in New York, Tyndall Air Force Base in Florida and Wright-Patterson Air Force Base in Ohio.

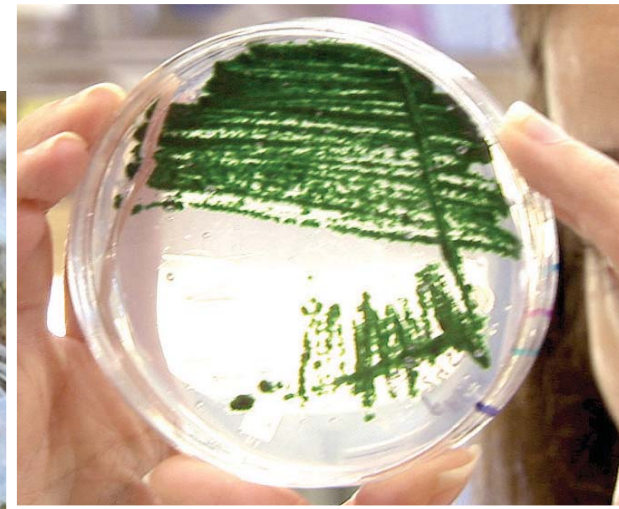
Algae are one of the so-called "second-generation" biofuels, meaning they are part of the wave that came after biodiesel and ethanol. The advantages algae have over other biofuels are wide-ranging. For example, they grow rapidly, contain large quantities of oil and can be harvested year-round rather than just seasonally.

The Academy's algae research is aimed at accomplishing four objectives. The first is identifying and selecting the most productive microalgae strains. In conjunction with that, the research hopes to find ways to induce those strains to produce more oil. The last two objectives focus on perfecting the extraction process.

The future payoff for the Academy could be significant. According to a research presentation assembled by Dr. Veverka, the algae research holds the potential to yield a biofuels facility at the Academy capable of producing jet fuel and up to 200,000 gallons of biodiesel a year.

"Cadet education with research is a vital pillar," Dr. Veverka said. "Soon enough, these young men and women grow into senior leaders and eventually will make key Air Force decisions about executing critical research programs."

And someday, one of them may star in a TV commercial touting research at the Air Force Academy that changed the world.



BACKGROUND PHOTO BY CAROL LAWRENCE; INSET PHOTO COURTESY OF UC SAN DIEGO

Falcons soar over Colorado Christian

Women's basketball team earns 68-58 victory

With four players scoring in double figures, the Air Force women's basketball team picked up a 68-58 victory over Colorado Christian at Clune Arena Nov. 28.

Senior captain Raimee Beck led Air Force with 15 points and six rebounds, while sophomore Dymond James added 13 points and a team-high seven rebounds. Also scoring in double figures for the Falcons were freshmen Camille Thompson and Megan O'Neil, who posted career-high marks with 12 and 10 points, respectively.

The Falcons never trailed in the contest, taking advantage of turnovers by the Cougars to stake a 22-12 lead with 8:26 to play in the opening half. However, Colorado Christian made a run, cutting the margin to just two points. Air Force went into the final media timeout of the half with a 24-22 lead,

but pulled away in the last few minutes to take a 36-26 advantage at the break.

After the intermission, the Falcons extended their advantage, leading by as many as 19 points with 13:01 left to play. Colorado Christian eventually got back within six points, but could get no closer as Air Force held on for its second win of the season.

Colorado Christian outshot and out-rebounded Air Force for the game, and both teams were sloppy with the ball, combining for 53 turnovers.

However, the Falcons were able to convert the Cougars' miscues into points, scoring 35 points off turnovers (compared to just 13 for CCU). Air Force was also more efficient in getting to the charity stripe, attempting 28 free throws while the Cougars shot just 10.

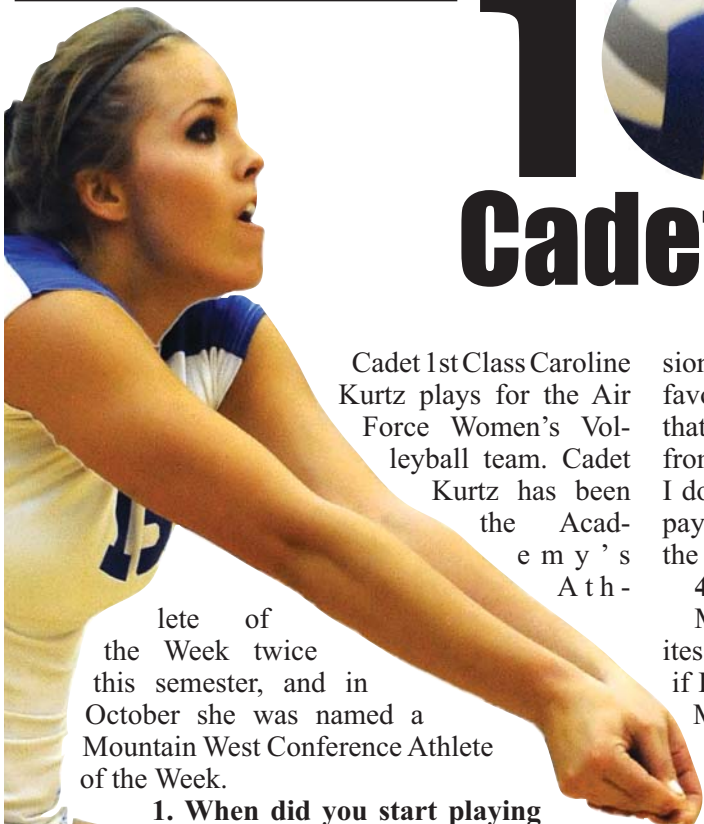


Driving force: Falcon guard Megan Muniz drives around CCU's Jodie Krall.



Career high: Freshman Camille Thompson drives in for a layup against the Colorado Christian defense during the Falcons' game against the Cougars at the Air Force Academy's Clune Arena Nov. 28. Thompson, a native of McDonough, Ga., posted a career-high 12 points.

PHOTOS BY MEGAN DAVIS



10 things you didn't know about ... Cadet 1st Class Caroline Kurtz

Cadet 1st Class Caroline Kurtz plays for the Air Force Women's Volleyball team. Cadet Kurtz has been the Academy's Athlete of the Week twice this semester, and in October she was named a Mountain West Conference Athlete of the Week.

lete of the Week twice this semester, and in October she was named a Mountain West Conference Athlete of the Week.

1. When did you start playing volleyball? Who got you started?

I began playing volleyball in sixth grade purely to make friends. I had just moved from a public to a private school, and a daughter of an acquaintance of my mother was on the team. I had absolutely no knowledge of the game nor did I know if I would even like it, it was purely a survival tactic!

2. Favorite sports to play off-season?

When it is warm outside, I like to play softball. My first sport and favorite sport up to high school was softball, and I still enjoy picking up a game of homerun derby or going to the batting cage. Winter, however, is a different ballgame — skiing is where the excitement is at.

3. Favorite professional athlete and team?

Growing up in New Mexico (with no major profes-

sional teams of any kind), I did not grow up with any favorite professional team. The closest to professional that we as a family followed was college basketball from my dad's hometown — the Kentucky Wildcats. I don't have a favorite athlete either. I guess I never pay much attention to individual players, I just watch the game.

4. Favorite movie or TV show?

Movies are one of my weaknesses: the list of favorites could go on and on. I think it will be less painful if I list my favorite TV shows: Castle, White Collar, Modern Family, Cougar Town, Bones, The Gates, Glee, Psych, Vampire Diaries and Gossip Girl.

5. Favorite food?

Italian and Mexican food, plus sushi, are my favorite types of food. My mother's green chili chicken stew is probably my favorite New Mexican dish and any type of Italian pasta or pizza (especially pizza that I ate in Italy) never gets old.

6. Favorite subject in school?

I am an engineer and behavioral scientist by trade (my major is System Engineering Human Systems), but the one class that I have enjoyed above all else in high school or college was my AP Art History Class my senior year of high school. Although completely irrelevant to anything I will do in the future, I left that class with a complete knowledge of architecture and art that came in handy in my visits to England and Italy.

7. If I were not a cadet, I would be ...

Well, first off, I would not be playing volleyball be-

cause I am not tall enough for other schools to take serious notice. I assume I would have to pick up another hobby then—most likely dancing. School-wise, I am not sure where I would be because I never applied to a school other than the Academy.

8. If my friends had to use one word to describe me, it would be ...

When my friends describe me, especially my teammates, they simply say "You're just Caroline." When I ask them what they mean, they shrug and say, "I don't really know, you are just Caroline, there is no other way to explain it." And then they go on to assure me that it's not a bad thing. So, honestly, I guess I am a little unique in silly and peculiar way at times.

9. The best part of playing volleyball is ...

As a D1 outside hitter who is really 5'8" (not 5'10" as the roster says), I find it very rewarding to prevail against blockers and other hitters who have at least half a foot on me in height. I bet it really annoys them when this seemingly average girl finds a way to tool them or hit around them.

10. I came to the Academy because ...

I come from an all-Air Force family, and my brother graduated from the Academy in 2007. So in a way, coming to the Academy was part of a legacy. I have chosen to not be a pilot, so I didn't necessarily come solely for the dream to fly. I came for the one-of-a-kind opportunities and to force myself to find a track for the future because I did not know what I wanted to do with my life. The chance to play volleyball made the deal so much sweeter.



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	A C E R	C L A N	A B B O T	9	1	2	5	7	4	8	3	6
	P A M E L A	A N D E R S O N		7	9	5	8	4	1	3	6	2
	P E D A N T	A N S		4	3	6	9	2	5	1	8	7
		U T E	S T E T S O N	2	8	1	6	3	7	5	4	9
	S A L A D S		O R A N G E	1	6	4	7	8	2	9	5	3
	A N A S		B A L T	3	2	8	4	5	9	6	7	1
	S T R I P S		S W I P E S	5	7	9	1	6	3	4	2	8
	H E I N O U S	A P E										
	S E T	D A K O T A										
C H E S T O F	D R A W E R S											
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Falcons to play in Independence Bowl

ACC Opponent will be announced Sunday; game played in Shreveport, La.

From Athletic Communications

The Air Force Falcons will play in the 2010 AdvoCare V100 Independence Bowl against an Atlantic Coast Conference team Dec. 27 at 4 p.m. Central Time on ESPN2 at Independence Stadium, bowl officials announced Wednesday.

Air Force will learn its opponent Sunday when the matchup is formally announced.

The Independence Bowl is beginning partnerships with the ACC and the Mountain West Conference in an agreement that runs through 2013. This year's game marks the 35th anniversary of the Independence Bowl, the nation's 11th-oldest bowl game.

"We are thrilled to have Air Force play in the 2010 AdvoCare V100 Independence Bowl this year as we begin a new partnership with the Mountain West Conference," said 2010 bowl chair Jim Hagan. "We feel this matchup between Air Force and a quality opponent from the ACC will excite our fans in Shreveport-Bossier City and throughout the region, and we look forward to a great game."

The Falcons finished their season with an 8-4 overall record and a 5-3 mark in Mountain West Conference play, good for a third-place tie in the conference with BYU and San Diego State.

The Falcons become the first service academy team to play in the I-Bowl since Army in 1996.

The Falcons have posted at least eight

wins and qualified for a bowl game the last four seasons under head coach Troy Calhoun. Air Force enters the Independence Bowl riding a three-game winning streak. Air Force claimed the Commander-in-Chief's Trophy with wins over Navy and Army this season, capturing the trophy for the 17th time and for the first time since 2002.

"The Air Force Falcons are honored to get a chance to come back to the Shreveport-Bossier City and Barksdale Air Force Base community," Calhoun said. "Our cadets, administration, coaches, and supporters are excited to soon head south to be a part of one of college football's treasures—the Independence Bowl."

"We're proud and excited to be headed to the Independence Bowl to take on a great opponent from the ACC," said Athletics Director Dr. Hans Mueh. "This is a great opportunity for our school, coaches, players, and fans. Our football team has had a great season, and this is an outstanding way for them to close it out."

Army and Navy will play in the Bell Helicopter Armed Forces and San Diego County Credit Union Poinsettia Bowl, respectively, marking the first time in history that all three U.S. service academies will play in bowl games in the same season.

The Falcons have made three-straight appearances in the Armed Forces Bowl in Fort Worth, Texas, facing Houston the last two years and playing California in 2007.



BILL EVANS

Pile up: Falcons quarterback Tim Jefferson goes airborne for a touchdown on fourth and goal from the 1 during the 2009 Bell Helicopter Armed Forces Bowl in Fort Worth, Texas. The Falcons have accepted an invitation to play in the 2010 AdvoCare V100 Independence Bowl Dec. 27 against an Atlantic Coast Conference opponent.

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Rifle team loses to Nevada-Reno, sweeps UTEP

The Air Force Academy rifle team split a weekend series, narrowly losing Nov. 21 to the University of Nevada-Reno 4,622-4,617, after defeating UTEP Nov. 20.

The Falcons' Tom Chandler claimed his second victory of the weekend as the highest scorer in both meets. Versus UNR, Chandler shot a small-bore score of 583 and a 592 in air rifle. Against UTEP, Chandler scored a 592 in air rifle and 583 in the small-bore. UNR's Dempster Christenson was the second highest finisher in both relays with a 577 in small-bore and 585 in air rifle.

In Saturday's matches, Pat Everson finished with a 580 in the air rifle. Robert Vasquez shot a 579, while

Kyle Phillips scored a 574 and Ben York finished with a 561. In small-bore, Everson shot a 572 and Seery shot a 569. Phillips and York both finished with a 568 and 565, respectively.

On Saturday, the Falcons outscored UTEP 4,611-4,582. Chandler was the high scorer in both the air rifle and small-bore matches. In small-bore, Everson finished second with a score of 579, while Seery came in third with 570. In air rifle, Vasquez fired a score of 576, while Seery finished with 575 points.

Chandler's scores of 592 were season highs. Chandler was named Athlete of the Week for the week of Nov. 15-20. Everson's 580 and 579 were also season highs.

Air Force vs. U. Nevada-Reno

Air Force: 4,617
UNR: 4,622

Air Force - Reno Air Rifle Scores

Tom Chandler	592
Robert Vasquez	579
Kyle Phillips	574
Pat Everson	580
Ben York	561

Air Force - Reno Small-bore Scores

Tom Chandler	583
Pat Everson	572
Mike Seery	569
Ben York	565
Kyle Phillips	568

Air Force vs. UTEP

Air Force: 4,611
UTEP: 4,582

Air Force - UTEP Air Rifle Scores

Tom Chandler	592
Robert Vasquez	576
Kyle Phillips	568
Mike Seery	575
Pat Everson	574
Stormy Sagmoen	570

Air Force - UTEP Small-bore Scores

Tom Chandler	583
Pat Everson	579
Mike Seery	570
Ben York	562
Kyle Phillips	554

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Handel's 'Messiah'

The Air Force Academy Cadet Chorale will present Handel's "Messiah," with Joseph Galema conducting, tonight in the Cadet Chapel at 7:30 p.m.

The event is free and open to the public.

'Holly and Ivy'

The Air Force Academy Band will present "Holly and Ivy, the Spirit of the Season" at various locations in Colorado Sunday through Dec. 14.

The first performance will take place at Fort Morgan High School Sunday at 3 p.m. followed by the Union Colony Civic Center in Greeley Monday at 2 p.m. and 7 p.m., the Colorado State Fairgrounds Events Center in Pueblo Thursday at 7 p.m., and the Pikes Peak Center in Colorado Springs Dec. 13 and 14 at 7 p.m.

KOAA Channels 5 and 30 will carry the performance Christmas Eve at 10:35 p.m. and Christmas Day at noon. Rocky Mountain PBS will air the show Christmas Day at 3 a.m. and 7 p.m., and the

Armed Forces Network will carry the show at 1 p.m. Christmas Day.

For more information on Air Force Academy Band appearances, visit <http://www.usafacademyband.af.mil/events/>.

Tree lighting

The Academy will celebrate the arrival of the holiday season with a tree lighting at the Community Center Chapel today at 5 p.m.

Hay rides will be offered starting at 4 p.m., with children's story time at 4:30 p.m.

Deer hunts Dec. 4-6, 11-13

The Academy's Natural Resources Office, in conjunction with the Colorado Division of Wildlife, will conduct deer hunts on base Dec. 4-6 and 11-13.

All hunters are guided by base or Wildlife Division personnel, and public safety is a primary concern.

Frequently used roads and trails leading into hunting areas will be posted with bright orange warning signs requesting that all personnel stay out of these areas.

All licenses for the 2010 hunting season have been issued. To apply for future hunts, submit a big game application to the CDOW for Game Management Unit 512. For more information, contact Natural Resources at 333-3308 or CDOW at 719-227-5200.

Gingerbread houses

Families can build gingerbread houses at an event in the Community Center Ballroom Dec. 11 from 10 a.m. to 1 p.m.

Cost is \$15 per family, and preregistration is required.

Prizes will be awarded for the best gingerbread houses. For more information or to register, call 333-2928.

Skate with Santa

Children can skate with Santa at the Cadet Ice Arena Dec. 12 from 1 to 3 p.m.

Admission is \$4, and skate rental is \$3.

Skate with Santa is open to all military family members, their guests and Air Force civilians.

'Get moving' tips

The Cadet West Gym fitness center will offer a "get moving" walking group Dec. 14 from 1 to 2 p.m.

The walk is offered as an opportunity to help participants improve their health.

For more information, contact Michelle Foster at 333-9164 or Letitia Wiseman at 333-9133.

Coat drive

The 10th Medical Operations Squadron will collect coats for a coat drive through today at the Base Exchange, commissary, 10th Air Base Wing headquarters, Community Center and Academy Clinic lobby.

All donations will be provided to the Salvation Army. To help, simply drop off a serviceable coat in a designated collection box.

Winter preparation tips

The Academy Safety Office has the following tips for drivers to prepare their vehicles for snowfall:

- Check your battery, fluid levels, turn signals, heater and defroster, tires and brakes.

- Keep a windshield scraper and small broom in your car for ice and snow removal.

- Keep your gas tank at least half-full during the winter season.

- Keep a small supply of emergency supplies in your vehicle, including non-perishable snacks, several bottles of water, blankets, matches, extra clothes, a small shovel and battery jumper cables.

Intramural basketball

Anyone who would like to compete in the intramural basketball program should contact Dave Castilla at 333-4078.

SnoFest! 2011

The Air Force Academy is this year's host for SnoFest! 2011 in Keystone, Colo., Jan. 28-30. Visit the USAFA Services website at <http://usafaservices.com/snofest> for details.

Volunteer call

Volunteers are needed for each of the following upcoming events.

- **Spouses Club Thrift Shop:** The Academy Spouses Club Thrift Shop is seeking new volunteers for its location in the Community Center Tuesdays, Wednesdays and Fridays and the first Saturday of each month from 9:30 a.m. to 2 p.m.

Proceeds from the thrift shop go to Spouses Club scholarships for military family members and other charitable activities that benefit the local community.

For more information or to volun-

teer, contact Thrift Shop manager Michelle Day at 333-4059 or Thrift Shop chair Cat Donovan at 264-1315.

- **Honor Guard:** The Academy Honor Guard needs officer and enlisted volunteers who can support two details per month for one year and who can attend training every other Wednesday from 1 to 4 p.m.

To volunteer, contact Janet Edwards at 333-3323 or Staff Sgt. Hugo Reinor at 333-5621.

A&FRC offerings

The Academy Airmen and Family Readiness Center will hold the following class in December. For more information, contact the A&FRC at 333-3444 or 333-3445. Class dates and times are subject to change.

Heart Link

Dec. 10, 9 a.m. to 1 p.m.

This class helps military spouses better understand the military way of life, terminology, the chain of command and benefits and services.

Family Advocacy classes

Family Advocacy will offer the following classes to active-duty servicemembers, Department of Defense civilians, retirees and family members in December.

For more information on classes or to sign up, contact Family Advocacy at 333-5270.

Common Sense Parenting

Wednesdays, through Dec. 8, 11:30 a.m. to 1 p.m.. This parenting program is held at the Community Center Chapel for parents with children ages 5-18.



CADET CHAPEL

Buddhist

Sundays, 10 a.m.

Wednesdays, 6:30 p.m.

Native American

Sweatlodge Ceremony - Nov. 20, 4 p.m.

Fort Carson Turkey Creek Recreation Area

Protestant Worship

Traditional: Sundays, 9 a.m.

Contemporary: Sundays, 11 a.m.

Catholic Worship

Mass: Sundays, 10-11 a.m.

Monday, Tuesdays and Thursdays, 6:40-7:10 a.m.

Confession and Adoration: Wednesdays, 5:30-6:30 p.m.

Holy Days of Obligation: 6 p.m.

Jewish Worship

Fridays, 7 p.m. (during academic year)

Open for tours

Mon.-Sat. 9 a.m.-5 p.m.

Sunday 1-5 p.m.

No tours during services

Service times are subject to change without notice due to mission requirements. Please call 719-333-2636/4515 for more information.

COMMUNITY CENTER CHAPEL

Catholic Masses

Saturdays

Reconciliation - 3:30 p.m.

Mass - 4 p.m.

Sundays

Mass - 9 a.m.

Religious formation - 10:15 a.m.

(September-May)

Tuesdays-Fridays

Mass 11:30 a.m.

Protestant Services

Wednesdays

Wednesday Night Live - 6 p.m.

Dinner followed by Religious Education

(September-May)

Sundays

Evangelical - 10:15 a.m.

Gospel 11:30 a.m.

ACADEMY CONCERTS
YOUR TICKET TO THE STARS
PLAN-B Entertainment/HEY DAVE! PRODUCE

Jingle Bell ROCK
A Raucous Holiday Revue!!!

A family friendly show for kids from one to ninety-two.

Hear all the old Classics:
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Sleigh Ride
Santa Claus Is Coming to Town

as well as Contemporary Holiday Hits:
Hey Santa
All I want for Christmas is you

Friday, Dec. 3, 2010 • 7:30 p.m. Arnold Hall Theater USAF
Tickets at the Box Office 333-4497

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COLORADO SPRINGS HEALTH PARTNERS, P.C.

Colorado's largest physician-owned multispecialty group practice has openings:

Purchasing Assistant, DME Assistant, MA, RN and NP/PA. Job details and apply online at www.cshp.net. EEO/AAP

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Fast Pace Orthopaedic Practice seeking, **FT Medical Receptionist & Scheduler** Knowledge in Insurance, data entry, and scheduling a must. Fax resume to 365-1160, Dept 200

HEALTHCARE

FT Registered Medical Assistant Busy 8 physician general/vascular surgery practice. Min 5 years exp. in preauth, scheduling and assisting with minor surg procedures. Competitive salary and excellent benefits. E-mail cover letter, salary requirements and resume to: jhays@agvscs.com

HEALTHCARE

RN/LPN P/T or F/T. Great training program if new to home care. Call Lynn 719-532-0373

HEALTHCARE

Ultrasound Technologist
Needed in the land of Cool Sunshine!

Expect the unexpected in the middle of a Beautiful valley! Enjoy life, take it Easy or Play hard in an area that is as diverse as it is Beautiful. We offer a friendly Team-Oriented Environment & a competitive Salary & Benefits package. Initial salary Ranges are based on position available & Candidates' qualifications. Excellent Technical & team building skills are a must, Ultrasound Experience Required.

Our medical center is not just bricks & Mortar, it's about people. If you're Interested In "making Exceptional Healthcare personal", send your resume to: San Luis Valley, Regional Medical Center, Alamosa, CO 81101 Fax: 719-587-5716 or Email: chavezc@slvrvc.org EOE

HEALTHCARE

RN or LPN needed to work with elementary age student in the school setting providing the child's medical care. Knowledge of diabetes and insulin pumps helpful, but not required. Day time hours. Please send your resume to Pam.Logg@ntsoc.com

HEALTHCARE

Therapists PT, OT, ST needed to make home visits. Excel pay, flex hrs. Call Lynn 719-532-0373 or fax resume to 719-532-0374

HEALTHCARE

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MANUFACTURING

Buyer, Electronics Electronic, E/M components, PWBs. Purchasing exp in Mfg environment req'd. BS degree. CPM, CPIM or CPSM pref'd. North Denver job site. 888) 496-9608 Resume: s.moul@martinez-thromada.com

PROFESSIONAL

Executive Director Must be exp. self-starter w/a strong bckgrnd in arts or nonprof it admin. looking to enhance the cultural landscape in El Paso & Teller county. Proven skills in program dev., management, policy, fund dev., financial operations and communication. Complete job desc. at: <http://www.coppercollo.org>

SALES

HUT TUB SALES

Do you have a successful track record selling hot tubs? Join our team selling the finest hearth, hot tubs, & patio products in our award winning showroom & enjoy excellent benefits & 401K program.

The successful applicant will have previous hot tub sales experience, strong product & industry knowledge, communications skills, computer literacy, & a positive, enthusiastic attitude.

Send resumes to: Western Fireplace Supply 1685 Paonia St. Colo Spgs, CO 80915

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CDL Drivers Wanted. Hands on Freight positions. Exc. pay & benes. Several OTR positions available immediately.

Apply in person at 4400 Mark Dabbling, Colo Spgs, CO 80907 or send resume to: scot.dannen@covan.com

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DRIVER/SERVICE Needed for trash Route, Class B CDL. Apply at: Waste Systems 4040 Clearview Frontage Road

Real Estate & Rentals

NORTHEAST \$990 2br, 2ba, 2car gar. Gated, covered Balcony. Like new. Call 719-459-1817

SALES

Sales Covan Worldwide Moving and Storage now hiring sales people. Pre-qualified leads. Medical and dental. Salary to commission. Apply in person at 4400 Mark Dabbling Blvd or call 719-634-0908 or send resume to: scot.dannen@covan.com

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NORTHEAST 2126 Silver Creek Dr. \$2000mo 3100sf, 5br, 3ba, 2car, Alarm, Ranch, D20 schools, fenced, garden, open space, pets considered USAFA 10min. 1-301-957-0753

30 miles S. of Salida 80ac. County Rd Electricity **600ft. of Cotton Creek**, Nice Trees along Creek Owner Finance. \$99K. 10% Down \$700mo. No Agts 719-547-3279

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JIMMY SLE 2000 Ruby Red, 4x4, Sporty, very good cond. Runs great! \$4490 OBO Call 481-8129

MONACO 2001 2BA, sleeps 4, low miles, very nice \$57,900. obo. 1-719-647-0779

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CLUES ACROSS

- Curved supporting structure
- Cleaning agent
- A stout sword
- Many serums
- Modern Tell Mardikh
- Roman god of the underworld
- Maple genus
- Scottish kinship group
- Superior of an abbey of monks
- Baywatch star
- Bookworm
- Autonomic nervous system
- Chief Ouray's tribe
- Famous hat brand
- Tossed, cobb and tuna
- Red + yellow
- Freshwater duck genus
- One who speaks Baltic
- Removes furniture varnish
- Filches
- Shockingly evil or cruel
- Mimic
- Fixed in one's purpose
- A Sioux
- Bedroom bureau
- White person, Hawaiian slang
- A disdainful grimace
- A Spanish river
- Regions
- Sparks
- Close by
- Heron, archaic
- Let it stand (Latin)
- Tom ticket receipt

CLUES DOWN

- As fast as can be done, (abbr.)
- Go over
- de la creme
- Hurried
- Lines that intersect a curve
- Pumpkin-shaped
- Ladd, actor
- They love to eat bamboo
- Less thick or dense
- Vestment
- Swollen lymph node
- British School
- Decay
- Give praise to
- Prefix meaning "within"
- Japanese sock
- Clothing closing mechanism
- Stare at
- Fish entrapers
- Fabric belt
- Stake for new cards
- = to 100 tetri
- 7th Hindu month
- Have ownership of
- Hard fat bird cakes
- Least dense
- Wood hen
- Leaf pores
- Advance evidence for
- US Olympic athlete Jesse
- 10th Hebrew month
- Chilean pianist Claudio
- Int'l. relief organization
- One who cultivates with a tool
- Ardour
- Garrison
- Fruit of the service tree
- Expresses surprise

SUDOKU

6	4		2					
		7	3	9				4
			5	7				
		5		4				
					5		8	
	8	1	6					9
1		4		8				
3	2							1
							2	

Fun By The Numbers

Like puzzles? Then you'll love sudoku. This mind-bending puzzle will have you hooked from the moment you square off, so shapren your pencil and put your sudoku savvy to the test!

Here's How It Works:

Sudoku puzzles are formatted as a 9x9 grid, broken down into nine 3x3 boxes. To solve a sudoku, the numbers 1 through 9 must fill each row, column and box. Each number can appear only once in each row, column and box. You can figure out the order in which the numbers will appear by using the numeric clues already provided in the boxes. The more numbers you name, the easier to gets to solve the puzzle!

Solution on page 10

Level: Intermediate

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MIX & MATCH Buy 4 Save \$2

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Limit 2 Rewards Per Transaction

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-.50

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Chewy Trail Mix Bars 6 ct.
Select Varieties

Fritos or
Cheetos
8.5-9.5 oz.
Select Varieties

Sale Price \$1.99
-.50

1.49

When You Buy Any 4 Participating Items
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or Classic Honey
Wheat Bread
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Sale Price \$1.99
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When You Buy Any 4 Participating Items
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Stove Top
Stuffing
6 oz.
Select Varieties

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99¢

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