

By John Van Winkle Academy Public Affairs

The National Security Agency tested service academy cadets in the realm of cyberwarfare during the 10th Annual NSA Cyber Defense Exercise here April 20-23.

April 30, 2010

The CDX is an annual cyber security exercise in which cadets from various military institutions design, build and defend computer networks against simulated intrusions by the NSA's Red Cell aggressor team.

This year's participants included teams from the five service academies, the Air Force Institute of Technology, the Naval Postgraduate School and the Royal Military College of Canada.

This computer security competition fosters education and awareness among future military leaders about the role of Information Assurance in protecting the nation's critical information systems, said NSA spokeswoman Lavena Watty. Service Academies are assessed on their ability to maintain network services while detecting and responding to network intrusions and compromises, most of which are initiated by NSA's Red Cell team. Cadets are graded on their ability to maintain an exchange server, chat server, web server and domain controller. They also must submit timely and accurate incident reports as they detect Red Cell activity.

The entire exercise was conducted on virtual private networks, providing a safe path for the exercise while preventing interference with real-world networks.

The U.S. Naval Academy won the service academy competition this year, breaking West Point's three-year championship streak. NSA judges would See CYBER, Page 4

Report clears road for solar array construction

By Ann Patton Academy Spirit staff

The 10th Air Base Wing commander signed a Finding of No Significant Impact statement April 21, allowing the Academy and Colorado Springs Utilities to move forward on an 8-megawatt solar array scheduled to begin construction in August.

1111126

Col. Rick LoCastro said the solar array will be a pinnacle of the Academy's "Falcon Green" project and a model for other Air Force bases to emulate.

"We are trying to lead the way in renewable

CSU will manage the facility under a lease agreement. Bill Nixon, a representative from CSU, said that safety and aesthetics are primary concerns. The Academy hosts approximately 1 million visitors per year, including football games and other on-base events.

Selection of the construction firm is expected to be completed in early summer. Colorado Springs Utilities, the Academy and the Denver engineering firm Burns and McDonnell will determine the contract's recipient. All solid waste generated during construction will be removed by the contractor and disposed of at an appropriate off-base disposal facility.

Vehicle traffic will be managed within the construction zone, and contractor hauling of materials, supplies and equipment will be controlled.

Areas where vegetation is removed will be revegetated where practicable according to the Academy's "Standard Specifications for Site Restoration, Revegetation and Trees" or will be graded and have weed barrier covered with rock applied.

The Academy will adhere to the terms and conditions of the Preble's meadow jumping mouse conservation agreement and any consultation required under the Endangered Species Act.

energy," Colonel LoCastro said.

The Academy was selected in November 2009 as the Air Force's "net zero" installation, meaning that the Academy intends to wean itself from non-renewable energy by 2015. The Academy currently generates 10 percent of its power from renewable energy, and the \$18.3-million solar array will add another 5 to 10 percent.

"We want to move forward quickly," Colonel LoCastro said.

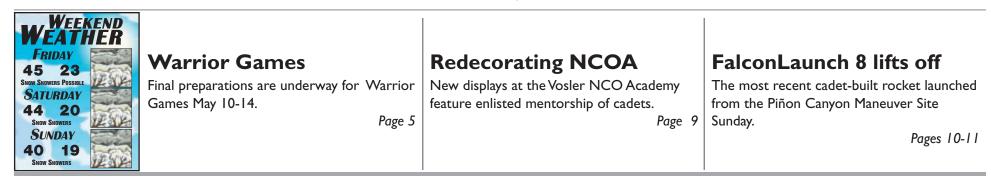
Protecting the environment

The Air Force Academy and its partners will take steps to preserve the prairie environment near the South Gate and minimize the impact of construction. Some of the mitigation steps include:

Silt fences will be used to protect wetlands and other sensitive sites.

Equipment will not be serviced or refueled near streams, and all chemicals and petroleum products will be stored and contained away from water sources.

Surveys for nesting birds will be conducted in areas proposed for disturbance, and if active nests are identified in the disturbance area, ground-disturbing activities will be delayed until the nesting and fledging process is complete, or alternatively, a depredation permit will be obtained from the U.S. Fish and Wildlife Service.



BORNENTARY_

Cadet recounts Doolittle Raiders reunion

By Cadet 1st Class Jonathan Lewczyk Cadet Squadron 08

Editor's Note: Cadet 1st Class Jonathan Lewczyk and Cadet 2nd Class Zachary Bell attended the Doolittle Raiders' 68th reunion at Wright-Patterson Air Force Base, Ohio, April 15-18. There, the cadets watched four of the eight surviving Doolittle Raiders toast their fallen comrades and guarded the 80 silver goblets as they were publicly displayed. Cadet Lewczyk writes *about his visit:*

Attending the Doolittle Raiders reunion at Wright-Patterson AFB was arguably the best thing I could have done prior to graduating from the Academy. As seniors, we've been told of countless heroes and leaders of bygone eras, of people that we should try to emulate. The Doolittle raiders are some of those people.

Air Force Chief of Staff Gen. Norton Schwartz alluded to this legacy during his speech April 15 and talked to us in person afterwards. It was amazing to get the opportunity to speak to him candidly, and it left me humbled.

Getting the opportunity to engage with the Raiders themselves was a fantastic experience. The four Raiders present had great stories to share with us, and although countless other people wanted to speak with them at all hours of the day, they still made time to speak with Cadet Bell and me. It was a very profound experience to be present during the goblet ceremony, which very few people have ever witnessed, and it made me feel like I was a part of Air Force history.

In addition, just the experience of guarding the goblets and answering the



Cadet 2nd Class Zachary Bell and Cadet 1st Class Jonathan Lewczyk stand guard near the Doolittle Raiders' silver goblets in the Air Force Museum at Wright-Patterson Air Force Base, Ohio, April 16. The goblets commemorate the Raiders' strike against the Japanese homeland April 18, 1942. The cadets were at Wright-Patterson AFB to observe the 68th-annual Doolittle Raiders reunion.

public's questions about the Raiders and the Academy was inspiring. Some of the most humbling moments I experienced was when a little boy of about 5, dressed in a little bomber jacket, gave me a salute, and another child asked for my autograph. I told him I wasn't anything special, but his mom told him I would be soon, which was a very surreal experience.

It was great, as a senior, to be able to represent the Academy at such a highprofile event, and to speak with more generals and colonels than I could count. Speaking with them about their careers and how the Academy helped shape them gave me a renewed appreciation for the past four years I've spent here.

Finally, getting to meet the Secretary of the Air Force, Michael Donley, was inspiring. He came up to the two of us, gave us his coin and proceeded to have a 5-10 minute conversation with us. To get that kind of exposure to someone with that level of responsibility is rare for any rank in the military; for two cadets to receive it is amazing.

The whole weekend was fantastic. I had a great time speaking with everyone I met there, and the experience deepened my gratitude for not only the Air Force and the Academy, but the responsibilities I will be entrusted with beginning in a few short weeks.



To responsibly inform and educate the

Academy community and the public about the Air Force Academy Lt. Gen. Mike Gould Academy Superintendent **Capt.** Corinna Jones Deputy Director of Public Affairs 2nd Lt. Meredith Kirchoff -Chief of Internal Information meredith.kirchoff@usafa.af.mil Staff Sgt. Don Branum NCOIC of Internal Information donald.branum@usafa.af.milButch Wehry — Senior Staff Writer whalen.wehry@usafa.af.mil Ann Patton — Staff Writer

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Deadline for all stories is noon Friday, one week prior to the desired publication date. Refer questions to the Academy Spirit editor at 333-8823. The Academy Spirit also accepts story submissions by fax at 333-4094 or by e-mail: pa.newspaper@usafa.af.mil.



Ner Social Contracts 0

By Master Sgt. Eric Sandoval

Center for Character and Leadership Development

A social contract is an agreement between individuals that defines how each person will treat another. Each of us has different life experiences that drive our values. These differences can easily cause misunderstandings and friction on a team. A social contract can help to clarify how someone thinks and how they want to be treated by others.

of what fun means. For one person, practical jokes might be fun, while for another, fun might mean reading a good book. At the end of the discussion, commit to making sure everyone can have fun.

The team must also discuss keeping one another safe, both physically and emotionally. People should be able to come to work and feel safe from gossip, backstabbing and ridicule as well as physical dangers.

Clearly define respect. It is more than just treating people the way you want to be treated. Once it's lished. In the end, people will treat defined, agree to uphold it. Upholding respect is just each other better when they as important as upholding any standard and will only be successful with everyone's commitment. social contract. The group must agree on what it takes to be

committed to this contract. This can be as simple as everyone giving a "thumbs up." This commitment is the foundation of a strong team.

Finally, discuss your team's goals and direction. Once this step is complete, you have successfully created your social contract.

Revisit your social contract often, perhaps every other month. When a new member joins the team, a new social contract should be estabdevelop, understand and hold themselves accountable to a

To create the social contract and alleviate the tensions in a group, meet and define five subjects: fun, safety, respect, commitment and teamwork.

First is fun: each person may have a different idea

Tune into KAFA, 97.7 FM for Character Matters, Wednesdays at 8 a.m. and 8 p.m. Also on iTunes or www.usafa.org.



If you could meet and shake hands with someone in the past or present, who would it be?

"George W. Bush. I feel he is a great leader."

"George Washington. He's such an important historical figure, and he did so much for our country."

"Albert Einstein. He was a genius and before his time. I'd love to pick his brain."

"Amelia Earhart. She really paved the way for women pilots, and my goal is to become a pilot."



Cadet 2nd Class John Newman Cadet Squadron 40



Cadet 4th Class Kenneth Sample Cadet Squadron 38



Cadet 1 st Class Dane Jansson Cadet Squadron 35



Cadet 4th Class Elizabeth Coleman Cadet Squadron 37





Admissions engages with Native Americans

By 2nd Lt. Meredith Kirchoff Academy Public Affairs

Academy Admissions continues to engage with Native Americans around the country to increase Native American representation among the Cadet Wing.

Second Lt. Richard Kenny, of the Academy Admission's Diversity Recruiting Division, attended the Native American Student Advocacy Institute's annual event at the University of New Mexico April 19-20.

"We understand there is a tremendous untapped resource of qualified students in the Native American community who may not know about the Air Force Academy and what it offers," Lieutenant Kenny said.

NASAI, which was themed "strengthening connections for access and equity in education," allowed Admissions personnel to network with concerning Native American students.

for future outreach to Native American students ence at the Academy. as the most valuable take-away from the NASAI conference.

Major topics included how to motivate Native American students towards higher education degrees, what resources are in place for these students and how to help them succeed at the post-secondary level.

"There are some really amazing programs already in place," Lieutenant Kenny said. For example, some schools have science, technology, engineering and mathematics education enrichment programs targeted to



Angela Chavez, an education counselor for Mesa County Community College, meets Oblio, one of the Air Force possible for the students that may decide to come." high school educators, guidance counselors and Academy's peregrine falcons, at the Native American Student other college representatives to share ideas Advocacy Institute conference at the University of New Mexico American populations will come in the form of April 19. Cadet 4th Class Cameron Harris, a member of Cadet the Montana State Annual Powwow and the Lieutenant Kenny cited connections made Squadron 14, talks about the Falconry program and his experi-

Native American students.

"The Academy can get involved with some of these programs to help expose more Native American students to the Air Force Academy as an option to further their education and serve their country," he said.

Native American admissions at the Academy have declined since a high of 34 in the Class of 2010. The Class of 2012 has a low of seven, while the Class of 2013 includes 12 Native American cadets. In light of these numbers, Admissions has placed an emphasis on

ing for fondue? • famished

steak? • mad

recruiting Native Americans, Lieutenant Kenny said.

"Through our engagement strategy we are working to turn the downward trend around and equip Native American communities with the knowledge of this opportunity," he said.

In the fall, representatives from the Academy traveled through the Navajo Nation of New Mexico and also attended the National Indian Education Association Convention in Milwaukee and the American Indian Science and Engineering Society in Portland, Ore.

Lieutenant Kenny said the highlight of these trips has been, "The ability to get the Air Force Academy name out there as a college that is looking for strong Native American students and that we are genuinely interested in the success of those students. And, that we are making active advances at the Academy to provide every resource

Two more avenues to reach out to Native Stanford Powwow at Stanford University later this year.

To further expand resources, an AISES chapter of its own is on the horizon for the Academy. The chapter would complement the Native American History Club and provide awareness and a place for students to connect.

"Admissions will continue to pursue applicants of Native American ancestry," Lieutenant Kenny said. "We recognize there are challenges in the Native American communities, but we know there are students, who if given the opportunity, would excel at the Academy."

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Cyber

From Page I

not disclose this year's scores except to say that they were very close. NSA does not disclose actual scores and rankings to the public, but they do provide a great deal of post-exercise feedback to the individual academies.

There were several changes to this year's cyberdefense exercise, including having each school design and build its own network to maintain and defend, instead of having the cadets start with a pre-made network. Those pre-made networks came loaded with requisite trojans and other malicious software. This year, cadets built their networks from the ground up.

The Department of Computer Science's cadet cyberwarfare team excelled at this part of the exercise, getting their network up and running faster than any of their competitors. Along with AFIT and the Naval Postgraduate School, USAFA's exercise network was online four days before the start of the exercise.

"Cyberwarfare is one of the most emergent and most rapidly changing of battlefields today," said Cadet 1st Class Parks Masters, commander of the Academy's CDX cadet team. "A lot of these cadets are going into cyber career fields, and they will actually be doing this for their job."

That challenge started early April 20 as NSA's Red Cell initiated numerous probes of the cadets' system. At the same time, several NSA staffers were at the Academy to play the role of the 'typical user' as the exercise's Grey Cell team. But the NSA's idea of a 'typical user' was one who uses a government computer in a reckless and haphazard manner. The Grey Cell instituted their own bit of controlled chaos by downloading files and programs blindly, and ventured into

all the deep, dark recesses the Internet has to offer — or at least, all of the deep, dark recesses the cadets' network would allow.

This led to the Academy's cadet team to identifying and eliminating malware that NSA's users had downloaded into the cadets' network. Malware is a broad term for a variety of software designed to infiltrate a computer system without the system owners' consent. While it was artificially and intentionally introduced into the cadets' networks, it offered another test of the real-world situations that network managers face around the world. For today's cyberwarfare cadets, it's also what they may face after graduation.

"We need to be practicing now and learn everything so we can to put up a good fight," Cadet Masters said.

The Academy's cyberdefense cadets kept their network up and running during the exercise, although some workstations were compromised by Grey Cell's users. Instructors, meanwhile, kept a hands-off approach during the exercise and served only as mentors.

"During the competition, no instructor is allowed to put their hands on the keyboard," said Capt. Mike Henson, a computer science instructor and lead instructor for the CDX. "Even leading up to that, we kept our hands off the keyboards."

"By letting them struggle, that's when you really let them learn something," he emphasized. "If you fix something for someone immediately, then they don't retain that knowledge as well as when you let them fight and struggle through that a little. It's only at the point after they've banged their heads against the wall for a few hours that we then we say, 'Maybe you need to look here.""

Another change to the exercise's rules



Cadet 3rd Class Tyler Schultz and Cadets 1st Class Anthony Blankenberger, Benjamin Bruckman, Jase Garcia and Jesse Lind gather around to watch proceedings during the National Security Agency's 2010 Cyber Defense Exercise here April 22. Cadets in the exercise built a network and had to defend it from NSA aggressor teams' attacks.

of engagement allowed NSA's Red Team to go 24/7 on their attacks. The cyberdefense cadets had four full days to maintain and defend their networks, but still had to be back in their dorm rooms by 10 p.m. and stay there until released from night call to quarters, while NSA continued to wreak havoc on their network. Each morning, the cadet cyberwarriors would start the day by assessing what activities and intrusions had happened overnight.

But the senior computer science cadets had help this year. After viewing the 2009 CDX, Captain Henson started USAFA's Cyber Warfare Club. This gave all cadets who were interested in all things cyber the opportunity to get hands-on experience with network security, setting up a network and working with attack and

defense tools for the purposes of education, on virtual private networks. The Cyber Warfare Club augmented the cyberdefense cadets during the exercise. For the first time at the Academy, it wasn't just seniors enrolled in Computer Science 468 who were taking part in the exercise - cadets from all four classes were busy maintaining and defending the Academy's exercise network.

The last day of the exercise put the cadets on the offensive against an NSAbuilt network. NSA has developed guidelines on how to secure and lock down a system, intended for use by other government users. To test their guidelines, NSA set up a separate virtual private network and let each of the academies try to map out that network and exploit it. This was an ungraded portion of the exercise.





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Warrior Games approaching fast

By Maj. Belinda Petersen Air Force Personnel Center Public Affairs

RANDOLPH AIR FORCE BASE, Texas — With fewer than three weeks to go, the Air Force team is making preparations for the Department of Defense's inaugural Warrior Games in Colorado Springs May 10-14.

What started as an e-mail from one athlete asking questions about the upcoming event turned into an unforgettable moment of team bonding with inspirational responses from other athletes providing encouragement and support.

"I don't want to let my team down," said retired Staff Sgt. Stacy Pearsall from Charleston, S.C.

Just moments later, retired Staff Sgt. Jeanné Goldy-Sanitate from Medford, N.J., responded with reassurance. "Hi Stacy, what an honor it is to be your teammate," she said.

"Do your best and you will be surprised that just competing and the camaraderie will carry you through," Sergeant Goldy-Sanitate said.

Other Warrior Games athletes responded as well. "I read about your struggles and feel mine are minor but just as real to my family and me. The despair comes with each bad day and the exhilaration comes with the good ones," said Chief Master Sgt. Damian Orslene, superintendent of the 81st Training Support

Squadron at Keesler Air Force Base, Miss.

"Going to these games, I can't lose. Because right this second, typing this and reaching out to you, I feel like an athlete again," Chief Orslene said.

"You have all 20 of us," said retired Staff Sgt. Ricky Tackett from Davis-Monthan AFB, Ariz. "We will bond and grow together. When the competition begins, we will adjust and represent our team with honor, discipline, heart, and maybe some tears."

The Air Force team consists of a diverse group of 20 athletes from all over the U.S. coming together for the first time.

Sergeant Pearsall will participate in the shooting and track events; Sergeant Goldy-Sanitate will participate in the swimming, hand-cycling, shooting, and wheelchair basketball events; Chief Orslene will participate in the swimming events; and Sergeant Tackett will participate in the track and seated volleyball events.

Sergeant Pearsall, who was a combat photographer and two-time winner of the Military Photographer of the Year award, reflected on her time during her last deployment where 60 soldiers were killed within the span of four months. Of those casualties, seven were her close friends.

"As a combat photographer, I had the honor of being the last person to ever document their lives. Their sacrifice was the ultimate one," Sergeant Pearsall said. Even though running is physically

painful for Sergeant Pearsall, she is inspired to run for those who died or were wounded and can no longer run themselves.

"I run for Specialist Trussel, Corporal Nguyen, Specialist Russell, Specialist Camacho, Sergeant Ross, Sergeant Shaw, Captain Belser, and Sergeant Robinson," Sergeant Pearsall said.

Running is no longer an option for Sergeant Goldy-Sanitate. She lost both her legs in a vehicle accident while on duty for an exercise.

"I would love to run but since I am now a wheelie, I can crank it out on my hand cycle," she said. "I need to learn how to swim the back stroke again without using my legs, but I am up for the challenge."

"Regardless of where you are at in your training and rehabilitation, we will meet you where you are," said Cami Stock, head coach for the Air Force team. "For some of you, this may be the first time in a long time that you're experiencing sport and competition. Know that wherever you are, you are an incredibly valuable member of this team."

For some, three weeks is not soon enough.

"I can't wait to meet and greet you all," Sergeant Tackett said. "With the strength in all of us, we will all have a winning experience and also pass the torch to the next group in the upcoming years."

For information on the Air Force



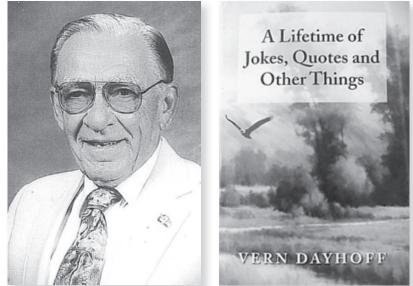
Retired Staff Sgt. Stacy Pearsall, former combat photographer who was assigned to the 1st Combat Camera Squadron, Charleston Air Force Base, S.C., is one of 20 Airmen selected to compete in Warrior Games May 10-14 at the Olympic Training Center and the Air Force Academy in Colorado Springs, Colo.

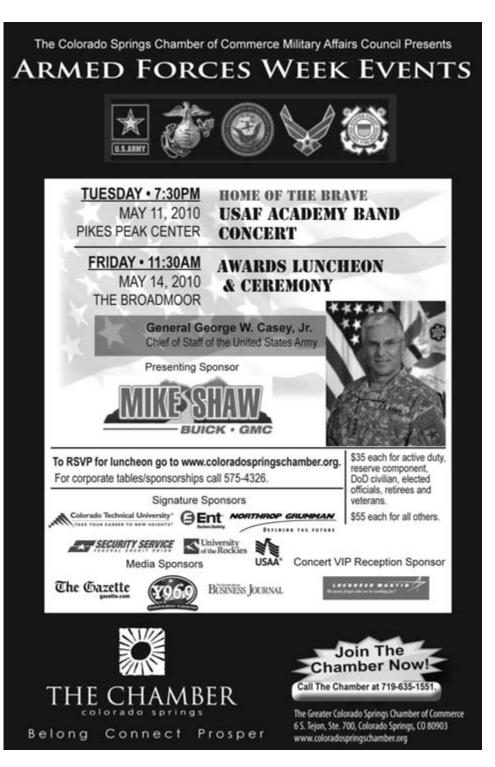
Wounded Warrior program, go to www.woundedwarrior.af.mil. For information on Warrior Games, go to http://usparalympics.org/pages/8330.

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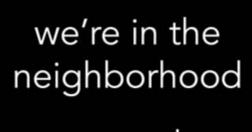


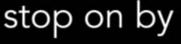


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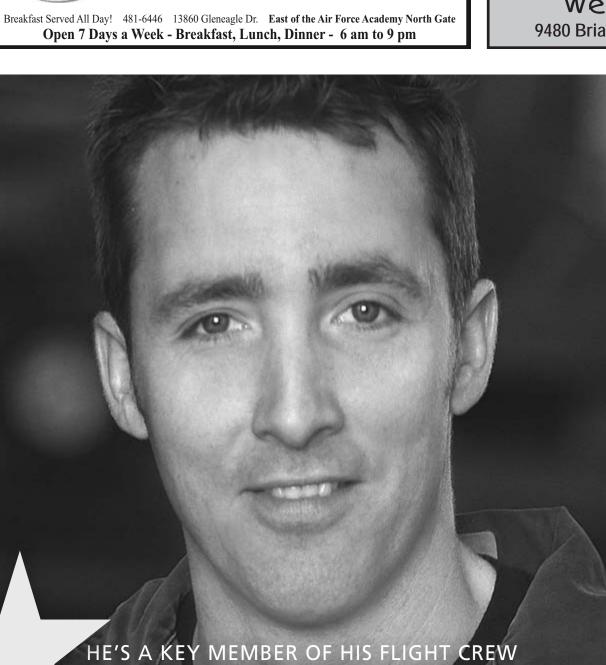


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CCAF ceremony to recognize 78 graduates

By Staff Sgt. Don Branum Academy Public Affairs

The Academy Education Office will hold a ceremony to recognize 78 Community College of the Air Force graduates at the Falcon Club Thursday at 2 p.m.

CCAF graduates exemplify outstanding dedication to the fulfillment of the Air Force mission by achieving their educational goals and enhancing their professional and personal development, said Lori Collins, an education specialist with the Education Office.

Honorees at the May 6 ceremony will include Academy Airmen who received their degrees during the winter 2009 and spring 2010 semesters. They are:

Name	Degree			
Senior Airman Joseph Abiva	Mental Health Services			
Master Sgt. Russell Angelo	Allied Health Sciences			
Tech. Sgt. Anthony Bennett	Education and Training			
Management, Information Management				
Staff Sgt. Nathaniel Bone	Mental Health Services			
Master Sgt. Robert Boyd	Biomedical Equipment			
0 7	Technology			
Master Sgt. Gregory Buckleylov	weEducation and Training			
	Management			
Master Sgt. Ted BurgessAerospace Physiology Instructor				
Tech. Sgt. Marshall Cavit	Education and Training			
8	Management			
Senior Airman Barbara Coddir	e			
Staff Sgt. Renee Cole	Allied Health Services			
Staff Sgt. Richard Daugherty	Information Systems			
0 0 1	Technology			
Master Sgt. Jason Davis	Aviation Maintenance			
Technology, Education and Training Management				
Tech. Sgt. Jose Delacruz	Education and Training			
8 ,	Management			
Staff Sgt. Preston Dews Diagno	e			
Tech. Sgt. Julia Douglas	Allied Health Sciences			
Staff Sgt. Samuel Farris	Allied Health Sciences			
Tech. Sgt. Theodore Fest	Education and Training			
8	Management			
Staff Sgt. Faris Flournoy	Criminal Justice			
Master Sgt. Almon Foster	Allied Health Sciences			

Staff Sgt. Maria Gonzales

Tech. Sgt. Pioquinto Gonzalez Staff Sgt. Risa Graves Moton Master Sgt. Jason Haag

Tech. Sgt. Darryl Hamilton

Staff Sgt. William Hamilton

Tech. Sgt. Paige Hanson Staff Sgt. Norman Henderson Master Sgt. Frederick Hobson Tech. Sgt. Michael Holman Tech. Sgt. Erik Hudson Tech. Sgt. Carey Kehrer Senior Airman Sabrina Lyon Staff Sgt. Shelley Marcozzi Tech. Sgt. Brian McCoy Tech. Sgt. Mark McParland Staff Sgt. Frank Meagher Master Sgt. Ernest Medina Senior Airman Annette Mendez-Colon Tech. Sgt. Gordon Miesner Master Sgt. Jerry Molina Staff Sgt. Laura Molina Staff Sgt. Valerie Montellano Tech. Sgt. Jason Morris Electronic Systems Technology, Diagnostic Imaging Technology Master Sgt. Lorianne Newmes Airman 1st Class Sherilyn Olson Senior Airman Jasmine Posely Tech. Sgt. Jaclyn Ramirez-Roberts

Staff Sgt. Gail Rasor

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Criminal Justice

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'Academy Room' features enlisted role

By Staff Sgt. Don Branum Academy Public Affairs

The Air Force Academy's command chief master sergeant visited the Vosler NCO Academy at Peterson Air Force Base Monday to highlight recent changes to the Air Force Academy-sponsored room.

The new decorations include photo montages aimed toward highlighting the relationship between the enlisted corps and the Academy's 4,000-plus cadets, Chief Master Sgt. Todd Salzman told students assigned to the NCO Academy's Falcon Flight.

Chief Salzman said he hopes that the artwork will also get students to think about applying to become Academy Military Training NCOs, or at least to think about how the enlisted corps affects the process of developing leaders of character.

"The Air Force Academy is a school that our enlisted men and women play a huge part in," the chief said, "whether they're AMTs, or they're working at labs or in the 10th Communications Squadron working with cadets every day, they have something to offer these young men and women: that the enlisted corps has a huge amount of experience."

Each of the rooms at the NCO Academy is themed after a sponsoring wing or squadron, Chief Salzman said. The Air Force Academy room has traditionally held helmets, jerseys and other sporting items, but he wanted to see something more with the most recent round of redecorations. He appointed Master Sgt. Greg Meinert, the Academy first sergeant, as the lead for assembling the room's new accoutrements. Sergeant Meinert, in turn, worked with NCO Academy instructor Tech. Sgt. Paul



Airmen at the Vosler NCO Academy at Peterson Air Force Base, Colo., review enlisted performance report bullet statements Monday. NCOs at the Air Force Academy recently added new photo montages highlighting the relation-ship between the Academy's enlisted corps and its cadets.

Breckon to get the new additions in place.

Upon his first glimpse of the redecorated room Monday, Chief Salzman joked that Sergeant Meinert would get to keep his job.

"I was sweating a little, wondering, I hope he likes it," Sergeant Meinert later said.

Chief Salzman also answered questions from Falcon Flight students, including one question about how the AMT job compared to being a military training instructor or military training leader.

The AMT's role, the chief said, is a little of both. NCOs are involved with military training, preparing third-class

and second-class cadets to become cadet cadre and other duties that take them out to Jacks Valley and Falcon Stadium. The job is demanding but also rewarding, and the relationships between AMTs and cadets doesn't end when the cadets become lieutenants.

"Those young men and women ... they call you back," Chief Salzman said. "I had a second lieutenant call me back. He said, 'Remember when you said that when you find yourself in a hole, stop digging? Well, I'm in a hole, and I've stopped digging. Now what do I do?

"I want you to know that our enlisted cadre is entrenched in building leaders of character. We have a huge impact," the chief added.

The Vosler NCO Academy's mission is to develop tomorrow's senior NCOs through professional education to manage the nation's resources while leading the world's premier air, space and cyberspace force. The NCO Academy's philosophy is to instruct NCOs in leadership and management so that they can develop and, in turn, improve the Air Force. Technical sergeants from the Air Force Academy and other Colorado Springs military installations attend professional military education there, along with NCOs from Western-U.S. bases such as McConnell AFB, Kan., and Fairchild AFB, Wash.





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FEATINDE

Up, up and away!

FalconLaunch 8 launches from Piñon Canyon



Cadets move rocket components out to their barebase launch site.

Piñon Canyon Maneuver Site, 30 miles northeast of Trinidad, Colo.

support a Department of Defense test program.

By John Van Winkle Academy Public Affairs

FalconLaunch rocket.



Cadets 1st Class Woody Sukut, Dan Richardson, Sam Barbaro and Ben Williams unload the FalconLaunch 8 avionics package during pre-launch assembly. out of Los Angeles Air Force Base, Calif. The "ExFIT" payload, sponsored by the Air Force Research Laboratory and designed by the Air PINON CANYON MANUEVER SITE, Colo. — The Air Force Academy's Force Institute of Technology, was built to provide latest cadet-built rocket took to the skies of Southern Colorado Sunday to data on high-Mach launch loads on lifting bodies. "FalconLaunch 8 provided 40 seconds of key FalconLaunch 8 blasted off shortly after 11 a.m. Sunday morning from the data for this future system," Colonel Lawrence said. "This is the first time ever that the Academy FalconLaunch 8 is the latest in a series of cadet-designed and cadet-built — or any other university in the world — has

been able to provide a launcher to deliver such data." Cadets 1st Class Woody Sukut and Sam Barbaro attach a vertical stabilizer fin to the rocket. This rockets under the Department of Astronautics' FalconLaunch program. Each academic year, a new multi-disciplinary team of senior cadets takes the two-

semester capstone course and advances the FalconLaunch program a step toward the program's end goal by designing and launching a new version of the

Department of Defense payload, said Col. Tim Lawrence, director of the Space



Cadets join together the propulsion and avionics sections of the rocket.



tion to its propulsion section during final pre-launch assembly.





sonic lateral stability at high angles of attack, for **speeds**.

The data gathered from the flight will be used year's FalconLaunch rocket carried an experimental Department of Defense payload, consisting of to verify the fin's ability to provide better super- two vertical stabilizer fins, to gather data on the fins' performance and stress loads at extreme

possible use in a future reusable reentry space vehicle, said Cadet 1st Class Aaron can be launched safely and successfully. This year's FalconLaunch was the first Academy sounding rocket to fly a Price, FalconLaunch 8's program manager.

Systems Research Center at the Space and Missile Systems Center, which is based the rocket's stabilizing fins. AFRL's use of the FalconLaunch vehicle gave the Air Force a highly cost-effective testing and demonstration platform: a comparable launch through commercial or other space assets would cost millions of dollars, but using the FalconLaunch 8 as a demonstration platform only cost AFRL \$10,000.

> An igniter issue forced some design modifications to the rocket after a successful static test fire of the rocket here on Jan. 15 produced a longer-then-expected burn of more than 10 seconds and less peak thrust than desired. The FalconLaunch 8 propulsion system has a double-taper fuel grain design capable of producing 4,000 pounds of peak thrust during a 7.8-second burn. With design modifications in place, the FalconLaunch cadets went to Piñon Canyon Saturday before conducting their launch on Sunday.

"For such complex fins and previous igniter issue, we were pleased with smooth liftoff and stable flight," said Col. Marty France, permanent professor and head of the Department of Astronautics. "Our preliminary data analysis, though, shows that one of our key systems that controlled the recovery system failed shortly after lift-off. We searched for the rocket for two days, with great help from the Piñon Canyon folks, but were unable to find it. We are analyzing the data that were transmitted to our ground stations and will report our findings at the end-of-semester review scheduled for May 6."

Lessons learned from the program go beyond

"The cadets handled the deployment and launch operations very well," Colonel The ExFIT payload was an instrumented, experimental fin tip on two of France said. "They learned, too, that it's not all fun and games. There were meals to fix, floors to mop, equipment to transport, unpack, and set up. We know that the lessons they learned in this arena are as important as their technical achievements."

FalconLaunch 8 was designed to reach an altitude of 100,000 feet and achieve a speed of Mach 3 for at least five seconds during its ascent to test the experimental fins. With the launch complete, analysis of data from the flight is underway.

"One focus of our reviews will be where we go next academic year with the Class of 2011," Colonel France said. "Frankly, we haven't been very good at getting data from our rockets. A big part of that is in the planning and execution of the plan on the part of the cadets — complex aerospace systems can't be rushed. We need to do solid design, extensive testing and validation and fully understand what we're doing well in advance of any launches."

"Space is not an arena that lends itself to a last-minute rush job to meet a deadline. The challenge for the faculty and staff is deciding when and where to allow failure when we see it may be coming so that the most important lessons are internalized before they become lieutenants. That's an especially tough call when we have external DOD customers supporting our missions who want to see results," he added.

The previous rocket in the program, FalconLaunch 7, set world records April 17, 2009, for both altitude and speed of a university-built rocket, reaching an altitude of 354,724 feet after launch at White Sands Missile Range, N.M.

The FalconLaunch program's end goal is to provide the Air Force and Department of Defense with a cost-efficient, operationally responsive method of delivering small scientific and engineering payloads into lower earth orbit.

noto by John Van Winkle Cadets at Ground Station 1 monitor signal from the rocket prior to launch.



Falcons' Garland becomes a Bronco

By John Van Winkle Academy Public Affairs

12

Falcon Football's unstoppable force has signed a free-agent contract with the Denver Broncos to become that football team's next immovable object.

This newest Denver Bronco is the Air Force Academy's senior defensive lineman Ben Garland, who signed with the Broncos Monday.

Garland, a 6' 5", 290-pound starter at nose tackle for the Air Force Academy during the 2008 and 2009 seasons, was an anchor of the Falcons' nationally ranked defense for the past two seasons. Garland earned second-team all-conference honors in 2009 while leading one of the top defensive units in the country.

He led the Falcons in tackles for loss with 10.5 for 46 yards and sacks with 4.5 for 30 yards. Garland recorded 45 total tackles and two pass breakups and a forced fumble. He also blocked two kicks, field goals vs. New Mexico and BYU. Garland wreaked havoc on opposing teams while playing most of the 2009 season with a broken left hand.

Despite his cast, he didn't miss playing time. With Garland at the center of the defensive line, the Air Force defense allowed just 15.7 points per game to rank second in the Mountain West Conference and 10th nationally. The Falcons gave up just 288.3 yards per game in total defense which was second in the conference and 11th in the nation, including allowing just 154.3 yards passing per game to lead the conference and rank fifth nationally.

Garland got his first call from the Broncos a week before the draft, but they were already sizing him up for their roster as a defensive end in their 3-4 defensive alignment.

"The Broncos also attended my pro day, where I do not believe I performed that well - but Nick Charles, Chris Thomas, and Reggie Rembert really shined," Garland said. "Denver showed its real interest during the seventh round of the draft and told me that they wanted to sign me as a free agent after the draft."

The New Orleans Saints also came calling during the seventh round of the NFL Draft. Several other teams showed interest, including the Jacksonville Jaguars, Arizona Cardinals and Minnesota Vikings, but it was the Saints and the Broncos who wanted to sign him. Garland weighed the options and chose the Broncos because his family would be closer and could come to see him play much easier, and there are several military bases up and down the Front Range



Falcons defensive lineman Ben Garland pressures Utah quarterback Terrance Cain during the Falcons-Utes game at Utah Oct. 24, 2009. Garland played with a cast for several games after breaking his hand in August.

where he might be able to work an assignment. The Broncos signed him on Monday.

"I was ecstatic! This was a dream come true for me," Garland said. "When

> I was little I had two dreams: I had a dream to play football for the Denver Broncos and a dream to be an officer in the United States Air Force. With this opportunity, I will be able to play for my dream team while not only serving in the Air Force but contributing to the Air Force's mission in a meaningful way. This opportunity to play for the Broncos will be a once-ina-lifetime chance, but the opportunity to serve my country will be by far more meaningful."

Grand Junction, Colo., has been a Broncos fan all his

His Air Force football coach was not surprised that the NFL was interested. Falcons head football coach Troy Calhoun coached at the professional level, including positions with the Broncos from 2003-2005 and working as the Houston Texans' offensive coordinator in 2006 before taking over his current job at the Academy.

"Ben Garland has been an outstanding cadet at the Air Force Academy," Coach Calhoun said. "I know Ben, like so many young men who were terrific college football players, also holds a dream to one day play in the NFL. I completely back Ben's priorities of earning his commission as an Academy graduate in five weeks, serving as a fine officer in the world's best Air Force, and in the future, pursuing a possible opportunity to play in NFL regular season and playoff games."

Department of Defense policy Garland, a native of requires military academy graduates to serve at least 24 months on active duty before applying for an early release. If granted, Garland will fulfill the remaining three years of his active-duty service commitment by joining the Air Force Reserves for six years.



life.

"When they won Super Bowl XXXII versus the Packers, I tried to convince my mom to drive me up to Denver to be in the parade," he said.

Garland will report to the Denver Broncos Thursday for the team's first rookie minicamp.

Falcons senior defensive lineman Ben Garland tries to beat a block by Houston Cougars offensive lineman Roy Watts during the Armed Forces Bowl in Fort Worth, Texas, Dec. 31, 2009. The Air Force Academy took the win 47-20. Garland, a native of Grand Junction, Colo., signed a contract Monday to play football for the NFL's Denver Broncos.

Baseball

The Falcons swept Creighton in two games Tuesday, winning 4-3 and 6-2 while holding Creighton to five runs and 10 hits in 14 total innings. The victories break a nine-game losing streak to the Jays going back to 1998.

Air Force's Addison Gentry went 3-for-4 in the second game with a

run and an RBI. Nathan Carter followed with two hits, two runs and a double. Also leading Air Force offensively were K.J. Randhawa with two hits, two runs and an RBI, and Blair Roberts, who had a triple in the first game.

Gymnastics

Sophomore Jenna Dudley was named the Women's Gymnastics team's MVP Monday during an awards ceremony for the gymnasts.

Dudley, a native of Lynden, Wash., claimed a pair of USA Gymnastics All-America honors and became the first Air Force athlete to earn the vault title at the Mountain Pacific Sports Federation Championships. She was also a two-time MPSF gymnast of the week, a three-time all-conference selectee and a competitor at the NCAA Regional Championships.

Junior Lisa Wong won the Warrior Award for the second straight year, missing only one meet to recover from laser eye surgery and tallying career-best marks on every event in which she competed — including scores of 9.725 on the balance beam and 9.675 on the floor exercise.

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To advertise in Cork 'n Fork please call 719-329-5236 Rates are \$35 per week with a 13 time commitment.







Car and Bike Fest

The Academy will hold its inaugural Car and Bike Fest at Falcon Stadium Saturday beginning at 9 a.m.

The event is free and open to the public and will feature music from the Air Force Academy Band's Wild Blue Country ensemble.

Car and motorcycle owners can register their vehicles into a contest for \$10. Entrants will be judged at 1:30 p.m., with trophies presented at 2:30 p.m.

For more information, call 719-235-3823.

Asian-Pacific Heritage Month

The Academy Equal Opportunity Office will hold an Asian Pacific American Heritage Month luncheon featuring Colorado Rep. Dennis Apuan at the Falcon Club May 13 at 11 a.m.

Representative Apuan, a native of Manila, Philippines, immigrated to the United States when he was 20 and moved

SCHEDDLE OF WORSHIP

CADET CHAPEL

Call 719-333-2636 for more information.

Buddhist Wednesday - 6:30 p.m.

Jewish

Friday - 7 p.m. **Muslim**

Friday Prayer - 12:15 p.m.

Protestant

Liturgical Worship Sun. - 8 a.m. Traditional Worship Sun. - 9:30 a.m. Contemporary Worship Sun. - 11:30 a.m.

Roman Catholic

Mass Sunday - 10 a.m. Academic Year, when cadets are present Mon, Tues, and Thurs - 6:40 a.m. Wednesday - 6:30 p.m.

Sacrament of Penance

Sunday - 9:00-9:40 a.m. Academic Year, when cadets are present Wednesday - 5:30-6:15 p.m.

Exposition of the Blessed Sacrament Academic Year, when cadets are present Wednesday - 5:30-6:20 p.m.

Paganism/Earth-centered Spirituality

to Colorado Springs in 1997.

The cost to attend the event is \$10 for Falcon Club members and \$12 for nonmembers. For more information, contact Gina Moore at 333-4258.

New 4-way stop sign

The intersection between Aspen and Cedar Drives will be converted to a 4-way stop. The stop sign will be effective Monday.

Restoration activities

In accordance with Section 300 of the Comprehensive Environmental Restoration, Compensation and Liability Act, the Air Force Academy is seeking public input on their environmental restoration program.

To achieve this, the Academy will offer forums in which members of the community can participate.

Interested persons may participate through face-to-face or phone interviews or by completing a short online survey at www.portage-it.com/afa by May 14.

Since 1984, the Academy has conducted environmental restoration studies and remediation at specific locations encompassing 13 sites and five areas of concern. With concurrence from the state of Colorado, the Environmental Protection Agency and the public, the Academy has implemented remedies and closed 11 sites and all five areas of concern.

For more information or to participate in an interview, contact Patrick Seccomb at 877-332-5159 or e-mail him at pseccomb@portageninc.com.

Furry Family 5k

The Fitness Center will hold a "Furry Family 5k" event for runners and their canine companions Saturday starting at 9 a.m. near the Fitness Center Par Course.

All pets must be leashed for the duration of the event, should have a current rabies tag and be up-to-date on all vaccinations.

Only one pet is allowed per participant. Pets that are in heat may not participate, and event officials reserve the right to turn away aggressive animals.

Cadet Chorale performance

The Cadet Chorale, accompanied by a professional orchestra, will perform Mozart's Requiem at the Cadet Chapel today starting at 6:30 p.m.

The event is free and open to the public. Parking will be available near Harmon Hall and the Visitor Center.

Community Center activities

A Community Center dance featuring

Activities (Library, Base Exchange, Fitness Center, Bowling Center, Youth Center, Outdoor Recreation, Milazzo Club, and Cadet Outdoor Rec).

For more information contact Letitia Wiseman at 333-9133.

Body conditioning

Body conditioning class takes place Mondays and Wednesdays in the Community Center Ballroom from noon to 1 p.m.

Admission to the six-week class costs \$60 and entails full-body workouts using dumbbell weights, resistance bands and rings and other provided equipment.

The class helps participants improve their strength, posture, muscle tone and bone density and is appropriate to all fitness levels.

A&FRC Offerings

The Academy A&FRC will host the following classes in May. Contact the A&FRC at 333-3444 or 333-3445 with questions or to sign up for a class. Class dates and times are subject to change.

Group pre-separation counseling

Held Mondays (except during TAP week), 2 to 4 p.m.

Separating or retiring from the Air Force in a year or less? This mandatory briefing assists you in identifying benefits and services associated with your transition and beyond.

Medical Records Review

Monday and May 21, 7:30 a.m. to 4:30 p.m.

Individuals within 180 days of retirement or separation can have the Disabled American Veterans review their medical records in preparation of filing for Veterans Administration disability compensation through the VA Form 21-526.

Smooth Move

Tuesday, 9 to 10 a.m., and May 12, 3 to 4 p.m.

Learn innovative and proven ways to make your move a smooth one. "Know before you go" to reduce the stress of your upcoming move. This class is mandatory for individuals leaving the Air Force Academy.

Key Spouse Training

Wednesday, 3 to 4:30 p.m.; Thursday, 1 to 3 p.m.; May 8, 8 a.m. to noon; and May 27, 5:30 to 7:30 p.m.

The Air Force Academy Key Spouse Program enables open communication among unit leaders and families.

SCORE - Starting your own business

your résumé is not doing this for you, it probably needs some refinement.

Civil Service Class

May 13, 8 a.m. to noon

Learn how to submit a federal résumé, search for internal and external vacancies and apply for Air Force Federal Civil Service employment.

Military Spouse Appreciation Day May 13, 10 a.m. to 2 p.m.

This annual Armed Services YMCA event will be held at the Southeast YMCA, 2190 Jet Wing Drive in Colorado Springs. Military spouses may attend for free hairstyling, massage, cooking on a budget demonstrations, lunch, crafts, door prizes and more. Limited child care is available with prior reservations — call 622-9622.

Family Advocacy classes

All Family Advocacy classes are open to active-duty servicemembers, Department of Defense civilians, retirees and family members unless otherwise specified. Classes are held at the Airmen and Family Readiness Center. For information on classes offered by the Family Advocacy Office or to sign up, contact Kristin Larkey of Family Advocacy Outreach at 333-5270.

1-2-3 Magic Parenting

May 13 and 20, 2:30 to 4:30 p.m. This class offers easy-to-follow steps for disciplining children ages 2-12 without arguing, yelling or spanking.

IN-TOWN-ABTIVITIES

Cinco de Mayo

El Cinco De Mayo Incorporated will hold celebrations on two locations in Memorial Park Sunday from 9:30 a.m. to 5 p.m.

Cinco de Mayo honors the Mexican army's victory over French forces at the Battle of Puebla May 5, 1862, and celebrates Mexican-American culture.

Events at the fiestas will include food, crafts, informational vendors and a car show.

Wait, Wait ...

NPR will tape "Wait, Wait ... Don't Tell Me!" at the Pikes Peak Center for the Performing Arts Thursday at 7:30 p.m.

Academy Superintendent Lt. Gen. Mike Gould will take part in the show during the show's "Not My Job" segment. Ticket prices for the event start at \$35. For more information or to purchase tickets, call the Center for the Performing Arts at 520-SHOW.

Academic Year, when cadets are present Monday, 6:30 - 7:50 - Room 1M125 (1st Floor - Fairchild Annex -- Astronautics Museum) Contact TSgt Longcrier at 719-333-6187

COMMUNITY CENTER CHAPEL Catholic Masses:

Saturday

Reconciliation - 3:30 p.m.

Mass - 4 p.m.

Sunday

Mass - 9 a.m. Religious Formation - 10:15 a.m. (September - May) **Tuesday-Friday** Mass - 11:30 a.m.

Protestant Services:

Wednesday

Wednesday Night Live - 6 p.m. Dinner followed by Religious Education (September - May). Sunday Evangelical - 10:15 a.m. Gospel - 11:30 a.m.

ballroom dance music is scheduled for May 1 from 7 to 10 p.m. in the ballroom downstairs. Cost is \$10 for couples and \$5 for individuals.

The Community Center will hold a flea market in the base exchange parking lot May 8 from 9 a.m. to 1 p.m. Spaces cost \$10, and tables cost \$5.

For more information on community center activities, contact Charlotte Morris at 333-2928.

Bonding thru Family Fun

The 10th Force Support Squadron is giving away \$175 per month in prizes for participating in Bonding Thru Family Fun. It only takes two people to be a family. Activities that count are workouts, playing games, hikes, going to ball games.

Those interested in participating can pick up a BFF Card at one of the Services

Thursday, 8:30 a.m. to noon If you have ever thought about starting your own business but are not sure how to start, attend this workshop to get answers to all your questions.

Sponsor Training May 11, 8 to 9 a.m.

This class is mandatory for those who have been assigned to sponsor a newcomer to the Academy. Contact your unit sponsorship monitor for details and to sign up for the class.

Résumé Writing

May 12, 9 a.m. to noon

Learn different types of résumé and cover letter styles and how to improve your own. Improve your résumé to make it work more effectively for you. The main purpose of the résumé is to entice an employer to call you for an interview; if

Japanese Children's Day

The Japan America Society of Southern Colorado will host "Kodomo-no-Hi" Japanese Children's Day May 8 from 10 a.m. to 12:30 p.m. at Colorado College's Palmer Hall in the Gates Common Room.

The festival will include traditional Japanese craft-making activities; supplies will be provided, and children will take home everything they make.

Festivities will also include martial arts demonstration, Koto music playing and a children's Japanese costume fashion show. To make reservations, contact the JASSC at 266-5625.



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