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Astronauts share their story with Peterson

By Airman 1st Class Shane Sharp
21st SW Public Affairs

Two Air Force officers-turned-astronauts who were members of NASA's 100th space shuttle mission shared their experiences with the Peterson Complex Monday and Tuesday at Headquarters Air Force Space Command.

Col. Brian Duffy and Lt. Col. Pamela Melroy, both Air Force test pilots, were members of the STS-92 space mission that delivered two major hardware components for installation on the International Space Station.

For Melroy, only the third woman in NASA history to serve as a pilot on a shuttle mission, it was her first launch into space.

"It was amazing," said Melroy. "Unlike any plane I'd ever flown. The launch was like being in a train wreck. It was a very, very violent experience."

For Duffy, the mission marked his fourth trip into space, but according to the STS 92 commander, it never gets old.

"Each mission is just as exciting as the first," said Duffy. "The only difference is there are less unknowns."

Melroy and Duffy were part of the seven-member Space Shuttle Discovery crew whose mission was to install two key pieces of hardware on the ISS: The Z1-truss and a pressurized mating adapter.

"The Z-1 truss is a major part of the space station," said Duffy. "It's a 15-foot cube packed with communications electronics and power switching hardware. It also controls the station's gyros, which are used instead of propellant to rotate and move the station."

"The pressurized mating adapter is another docking port. Kind of like a back door," said Duffy.

The STS-92 team successfully accomplished its mission, installing both pieces of hardware over a



Photo by Gene Chavez

Col. Brian Duffy and Col. (select) Pamela Melroy pause for a photo before giving a briefing on their October space flight.



Photo by Jeff Wisoff

Astronaut Jeff Wisoff takes a photo in the reflection of STS-92 mission specialist Michael Lopez-Alegria's visor. Earth, heavily clouded, and part of the International Space Station are also mirrored in Lopez-Alegria's visor.

four-day period. Each of the four days included space walks by other members of the crew.

According to Melroy, her first trip into space was filled with unique challenges and extraordinary experiences.

"In space you experience things you never see or feel on earth. It's amazing," said Melroy.

One such experience for the space rookie was weightlessness.

"Experiencing zero gravity is a little weird," said Melroy. "Your body goes through a transition period that could last anywhere from a couple of hours to a couple of days."

"Moving around in zero gravity is also very different," she said. "I had a couple of bruises from the trip because I would push too hard off of things when I moved around. Other members of the crew would shout 'rookie alert!' as I flew by out of control."

Besides experiencing zero gravity, one of Melroy's favorite experiences of the mission was just looking out the window.

"It's impossible to describe how gorgeous the earth is from space," said Melroy. "The sun rises or sets every 45 minutes. On earth, sunrises and sunsets are gradual, showing you a variety of colors and stages. In space, it happens all at once. You get to see all of the colors and the whole range of the experience in the same instant."

With the mission successfully accomplished, the STS-92 team undocked and headed for home. The return was delayed due to poor weather over Florida, and after two days it was decided to re-route the shuttle. The Discovery and her crew landed safely under blue skies Oct. 24 at Edwards Air Force Base, Calif.

"We all felt a great sense of satisfaction and relief," said Melroy. "Two years of training ended in a successful mission."



NASA courtesy photo

Video still of the International Space Station following deployment of the antenna on the Z-1 truss.

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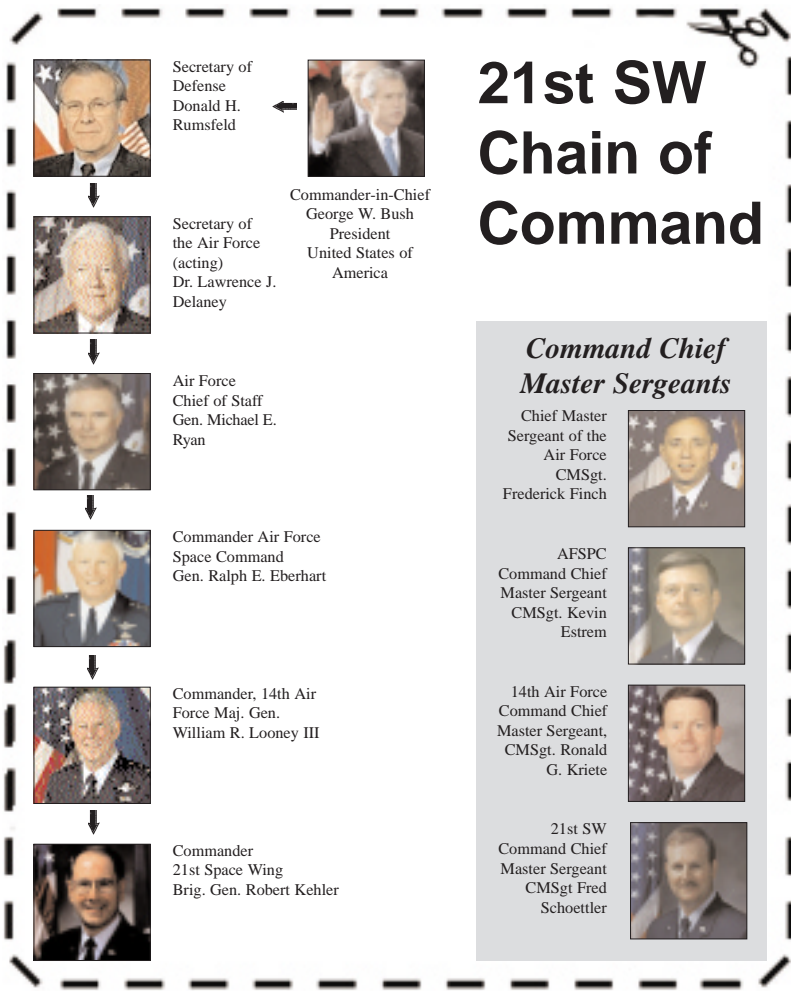
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From the top



Congratulations to senior master sergeant selectees

Twenty-six Peterson Complex master sergeants were listed on the promotion to senior master sergeant list released Wednesday. Those promotees include the following:

- 21st Space Wing**
Bradley Steininger
- 21st Mission Support Squadron**
John Freeman
- 21st Logistic Support Squadron**
Caesar Gaddis
- 12th Space Warning Squadron**
Rhonda Havelick
- 1st Command and Control Squadron**
David Lawrence
- HQ, Air Force Space Command**
Beverly Dare Alex Mercado
Ronald Sherrill William Babcock
Leo Chaney Kevin King
Jeffrey Markovich Rex Curry Alan Lindsay
- AFSPC Communication Support Squadron**
Daniel Hans Bruce Johnson
Craig Sanders David Thorpe
- AFELM NORAD**
Jeffrey Hamlin
- AFELM U.S. Space Command**
Debra Helle
- Det. 4, AFOTEC**
Dean Boling Bruce Thrower
- 10th Dental Squadron**
Francisco Garcia Bautista
- 76th Space Control Squadron**
David Brown Bruce Knight David Cherry
- 821st Medical Squadron**
Lashawn Penn
- 3rd Space Surveillance Squadron**
Larry Myles
- 3rd Space and Communications Squadron**
Robert McManus

Action line

Submitting Action Lines

The Action Line (556-7777 or by fax: 556-7848) is your direct link to me. It provides an avenue for you to voice concerns over unsolved problems, share good ideas or provide some constructive criticism.

As a reminder, the Action Line is not a replacement for using your chain of command. Action Lines can help make the Peterson Complex and the wing a better place to live and work.



Brig. Gen. Bob Kehler

Q. Why can't the commissary use paper bags? We prefer the paper bags to plastic for a number of reasons; recycling for one. We are quite disappointed that the commissary has chosen not to offer paper bags, and are calling to request patrons be given the option of using paper bags.

A. Thank you for your question concerning the use of paper bags at the commissary. Normally the commissary uses plastic bags due to the high cost of paper bags. However, the staff will give you paper bags if you ask. They are temporarily out of paper bags, but a shipment is on order. Our commissary manager, Rita Harper, 556-7765, would be happy to discuss any additional concerns with you.

Q. Why are the trainers at the gym allowed to charge and sign-in unauthorized civilians? I think it is illegal to have people who aren't authorized to use the gym using it for a couple of bucks or whatever the trainers are charging. It is like me getting into Gold's Gym free. At Fort Carson, if you have a personal trainer you have to have a military ID card or a DOD ID card or be a dependent.

A. Thank you for calling! The Air Force has hired two personal trainers to work at the Peterson Air Force Base Sports and Fitness Center. Anyone holding a valid ID card can set up an appointment with a trainer. When patrons arrive for their appointments, they must show their ID card and pay for their appointment. What may have appeared to be signing in an unauthorized person is actually the personal trainer signing the center's personal trainer log. Our athletic director uses the log to track the name, rank, phone number, times and dates of appointments and amounts paid by all customers. It's a management tool to ensure the program is running correctly. Thank you for your concern with the protection of eligible customer privileges. If you have any further questions or comments, please call Sharon Duell, athletic director at 556-8069.

Q. Can somebody clean off the benches at the bus stop shelter at the corner of Peterson Boulevard and Otis Street? Because of the past inclement weather, the benches have been caked with mud. Thank you for taking my call.

A. Thank you for bringing this to our attention. We power-washed the benches Feb. 23 and they are now "good to go." We looked at other bus stop benches around base as well. Should you ever notice this situation again, please call Maj. Jeff Pitchford, 21st Civil Engineer Squadron, at 556-1430. Thanks again for paying attention to the quality of our Peterson community.

Q. Why are others, besides the handicapped, allowed to shop early in the commissary? I am retired and 80 percent disabled. The commissary is scheduled to open a half-hour early for people who are handicapped. I suggest we either cancel or enforce the early opening hours for the handicapped. Thank you very much.

A. Thank you for your question about early shopping at the commissary. In order to accommodate early morning shoppers, the commissary opens from 7-9 a.m. for hand basket shoppers. Hand basket shopping is limited to 15 items or less and provides an opportunity for individuals who are getting off work to pick up necessary items. Additionally, the commissary allows handicapped people to begin their shopping one half hour early, at 8:30 a.m., in an effort to facilitate their shopping experience. It is the commissary staff's intent to provide the very best customer service possible to all patrons. Please call our commissary manager, Rita Harper at 556-7770, with any other questions.

SnoFest draws crowd of 3000

By Capt. Sean McKenna
Air Force Space Command Public Affairs

COPPER MOUNTAIN, Colo. - Nearly 3,000 military and family members descended on Copper Mountain, 75 miles west of Denver, for three days of winter activities last weekend. It was all part of SnoFest, an annual excursion co-sponsored by Air Force Space Command and the Air Force Academy.

Airmen, soldiers, sailors and Marines from more than a dozen installations journeyed with families and friends to participate in the ski weekend, intended to give military families an opportunity to discover the Colorado outdoors.

Installations represented at SnoFest included Peterson AFB, Buckley AFB, Schriever AFB, the Air Force Academy, Cheyenne Mountain



Photos by Tech. Sgt. Alex R. Lloyd

Skiers speed downhill during one of the many races at SnoFest.

Air Force Station and Fort Carson; F.E. Warren AFB, Wyo.; Hill AFB, Utah; Offutt AFB, Neb.; McConnell AFB, Kansas; Cannon AFB, N.M.; Kirtland AFB, N.M.; Nellis AFB, Nev.; and Hanscom AFB, Mass.

"This is a great place to live ... and serve our country," said Gen. Ed Eberhart, AFSPC commander. "I'm glad we're able to get out and enjoy it during SnoFest."

Besides leisure skiing, SnoFest included snowboarding, snowmobiling, tubing and ski races, as well as parties both evenings. Clowns, face painters, caricature artists, broomstick hockey games and all-night youth center parties, kept the children and teens entertained.

"This was our first time skiing and the kids have absolutely fallen in love with it," said Staff Sgt. Dallas McCarter, a military training leader with the Air Force Academy's 36th Cadet Squadron, there with his wife, Kim, and sons, Dustin, 12, and Deion, 4. "We've had so much fun, we had to practically pull them off the mountain."

Maj. Ed Baron brought his entourage up from Peterson AFB. He and his wife, Sally, and daughters, Alyce, Mattie, and Heide (6,4 and 2 years old) hit the slopes both days. "It



Cardboard derby participants slide down the mountain.

was great to get Friday off to take part in this and have the whole family together to enjoy it," Baron said.

One of the more anticipated SnoFest events was the cardboard derby March 3. With 18 entrants, competition was keen coming down the 50-yard downhill course, but Hanscom AFB's Maj. Pete Lamatsch and his 9-year-old son, Aaron, won in a tight finish. Finishing behind them were "vehicles" resembling the Academy Chapel, an SR-71 Blackbird, a Peacekeeper intercontinental ballistic missile and a pirate ship.



Michael Lloyd takes a break while preparing for the cardboard derby and attempts to catch a snowflake on his tongue.

Volunteer tax assistance program underway at Peterson

The Peterson tax preparation assistance program is under way.

The program this year is decentralized, with IRS-trained Volunteer Income Tax Assistance representatives available throughout base squadrons and units. To get help with your tax returns, contact your unit VITA representative. If your unit isn't listed, call your first sergeant to get the representative's name.

You may have heard, you'll get the quickest action for a refund if you use IRS *e-file* with direct deposit. The legal office can file your Colorado state return electronically, too, which will help speed up your refund.

Retirees should call the tax center at 556-4871 to make an appointment for assistance with tax returns.

(Information courtesy of 21st Space Wing Legal Office)

VITA Representatives

21st Civil Engineer Squadron

1st Lt. Michelle Boschen 556-4901

Master Sgt. Gordon Wilkins 556-6297

21st Contracting Squadron

Karen Davis 556-4944

21st Communications Squadron

Master Sgt. Brenda Soule 556-6297

Tech. Sgt. Walter Boyd 556-7013

21st Comptroller Squadron

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Master Sgt. Lena Williams 556-6277

21st Operations Group

Capt. Douglas Wilkinson 556-7108

21st Security Forces Squadron

Airman 1st Class Bonnie Edwards 556-4000

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Tech. Sgt. Roy Stanley 554-8535

2nd Lt. Donna Reising 554-6111

32nd Space Operations Squadron

Capt. Christine Karpel 554-1710

10th Medical Support Squadron

Staff Sgt. Anthony Rangel 556-1610

Staff Sgt. Cindy Alexander 556-1054

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1st Lt. David Scharfbillig 556-2022

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2nd Lt. Ericka Brewington 474-3200

Staff Sgt. Kimberly Harris 474-3179

Staff Sgt. Derick Lucas 474-3773

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Master Sgt. Jeffrey Keener 474-2016

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Energy project at 20th SPSS reaps big benefits

In 1999, the 20th Space Surveillance Squadron became part of an energy services agreement with Choctawhatchee Electric Cooperative to accomplish energy conservation measurements at Eglin Air Force Base, Fla.

The agreement was forged to help Eglin reach the presidential-mandated 30 percent reduction in energy usage, by 2005, in all facilities. Site C-6, 20th Space Surveillance Squadron, was targeted as the first facility to be audited under this agreement.

The 20th SPSS, a geographically separated unit of the 21st Space Wing, is located in Walton County near Freeport and is home to a 250,000-square-foot AN/FPS-85 radar building and components, dedicated to 24-hour space surveillance tracking of over 9,500 near-earth and deep-space man-made objects. Site C-6 uses enough power to run a town of 8,000 residents.

Initially, CHELCO and Sain



Photo by Lois Foy

Lt. Col. Al Kemmet bids farewell to members of the Curtin Team after their inspection of the site facilities.

Engineering Associates, Birmingham, Ala., conducted an on-site building investigation and evaluation to determine if any significant energy conservation opportunities existed and whether further detailed energy analysis was warranted. During this preliminary audit, they identified seven ECMs that potentially could save \$100,000 per year on Site C-6's power bill, with an estimated payback of 8.5 years.

The government then requested a proposal from CHELCO for further evaluation of these ECMs. CHELCO submitted an ECM proposal setting forth a prioritized list of the recommended energy conservation projects within the ECM, a preliminary estimate of the cost (including estimated feasibility study, engineering and design, implementation costs and estimated cost savings). The proposal was received and approved, and CHELCO submitted the feasibility study to the government in June 1999. Eglin subsequently ordered the design of the project. In September 1999, Eglin issued a task order for the construction of the seven ECMs, at a cost of \$1,139,465. Construction began in November 1999.

The energy conservation measures included:

1. Unoccupied temperature set-back:

Automatically setting the temperature back in unoccupied areas of two buildings. The installation of a new programmable thermostat on three units allows

desired space conditioning during all occupied hours. With the schedule of occupancy programmed, the thermostat will automatically shut down the unit when the space is scheduled to be unoccupied.

2. Face area lighting controls and upgrade:

The spaces between the radar face and offices are dangerous areas, where lights were left on for safety. Heat-and motion-activated lights were installed for greater energy efficiency while allowing for a safe environment.

3. Chiller optimization: Equipment alterations and software upgrade allowed the chiller plant to function well with only one chiller operating. Formerly, two chillers operated over 90 percent of the year.

4. Conversion of multi-zone air handling units to multi-zone variable air volume: Multi-zone controls were replaced with variable volume dampers installed in the duct, becoming the primary temperature controller for these spaces.

5. Primary/secondary pumping: Installed variable frequency drives on two secondary chiller water pumps along with the necessary controls so pump speeds can be reduced in proportion to the cooling load.

6. High efficiency motors: Upgraded to high efficiency motors and equipment in several locations throughout the site.

7. Interior lighting upgrades: Replaced existing fluorescent lighting

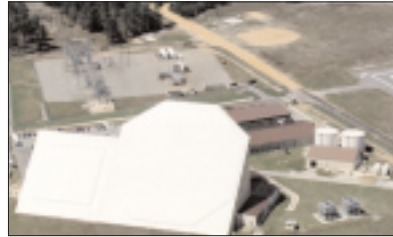


Photo by Lois Foy

Aerial view of site C-6, home of the 20th Space Surveillance Squadron, Eglin Air Force Base, Fla.

with more energy efficient lamps.

The seven ECMs addressed energy waste in three primary areas: lighting, HVAC heating and cooling equipment and motors.

Work was completed in December and the final inspection took place Jan. 9. Eglin has already seen a 15 percent reduction in energy use at Site C-6.

CHELCO Vice President of Marketing and Administration, Leigh Grantham, worked on the C-6 project from its beginning to the final inspection. "Working with the Air Force was a great educational and win-win experience," Grantham says. "It gave CHELCO an opportunity to shave its base load, while helping Eglin to meet its energy reduction goals."

20th SPSS Commander Lt. Col. Al Kemmet Jr., said, "Our partnership with CHELCO showcased how industry and government can successfully work together to achieve what's best for everyone...less energy consumption!"

(Courtesy Lois Foy, 20th SPSS unit public affairs representative, and CHELCO)

NORAD/USSPACE name Reservists of the year

By JO1(SW) Beverly Allen
NORAD/USSPACECOM Public Affairs

The North American Aerospace Defense Command and the U. S. Space Command Joint Aerospace Reserve Program recognized the calendar year 2000 Reservists of the Year during a Feb. 23 ceremony at Peterson Air Force Base. Lt. Gen. George MacDonald, deputy commander in chief, NORAD, presented the awards to NORAD winners. Lt. Gen. Edward G. Anderson, III, deputy commander in chief, USSPACECOM, presented the U.S. Space personnel awards.

NORAD AIR FORCE RESERVE OFFICER

Lt. Colonel Mark Armstrong, assistant staff judge advocate/acting legal advisor, NORAD/USSPACECOM, provided articulate, thorough and sound legal advice and in-depth legal analysis of the Iridium de-orbit issues, as well as analyzing proposed changes to the Uniform Code of Military Justice, recommending several revisions.

NORAD NAVY RESERVE OFFICER

Commander Peter Jerome, an intelligence watch division chief, represented reserve watch personnel during a recent manning strategy review, and served as acting combined intelligence watch commander during two non-cooperative-country space launches and multiple tactical launches.

NORAD ARMY RESERVE OFFICER

Lt. Colonel William Tyndall, intelligence plans officer, was responsible for coordinating information

operations intelligence issues with the CIC, Joint Warfighting Capabilities Assessments, COLISIUM, AFOSI and AFCERTs foreign intelligence analytic shop.

NORAD AIR FORCE RESERVE NCO

Master Sgt. Susan M. Nadeau works in the CIC classified library. She is directly responsible for 90 percent of the annually processed classified/technical documents (approximately 500) in the library management system.

USSPACECOM AIR FORCE RESERVE OFFICER

Lt. Colonel Pamela Stewart, intelligence plans and programs officer, is a recognized expert in the national intelligence community and was requested by the plans requirements division for a year-long tour. She completely rewrote the seven-year-old Reconnaissance and Surveillance Roadmap while chairing the Reconnaissance and Surveillance Mission Analysis Working Group

USSPACECOM MARINE CORPS RESERVE OFFICER

Lt. Colonel Sara Phoenix, C4 systems staff officer, was a key member of the white cell during the command's first computer network defense exercise, APOLLO CND. She also wrote Command Control Systems Division's contribution to the command's joint training plan ensuring the required training was consistent with the mission.

USSPACECOM NAVAL RESERVE OFFICER

Lt. Commander Russell Anderson, deputy branch



Courtesy photo

NORAD/USSPACECOM annual reserve award winners pictured here include (left to right) Master Sgt. Susan Nadeau, Army Lt. Colonel William Tyndall, USAF Lt. Col. Pamela Stewart and Lt. Commander Russell Anderson.

chief, space forces, personally wrote 10 daily intelligence highlights articles on time-sensitive space developments for publication in USSPACECOM's Daily and Space Forces Quarterly publications. He also participated in Exercise KEEN EDGE 00 in Japan, where he served as senior intelligence watch officer.

USSPACECOM AIR FORCE NCO

Tech. Sgt. Robert E. Spatz, electronics intelligence craftsman, was the combined intelligence center liaison to the National Air Intelligence Center, leading the USSPACECOM review of the NAIC wideband imagery models. Spatz provided detailed measurement analysis of foreign satellites used by the USSPACECOM CIC resulting in the delivery of space objects of interest modeling products to AFSPC Space Warfare Center to use to create life-like satellite models for analysis.

Cyber-space is next battlefield

By Julie Klooster
AFCEA, Rocky Mountain Chapter

The battle for cyberspace was the key theme of the SpaceComm 2001 symposium held at the Sheraton Hotel in Colorado Springs Feb. 20-23. More than 400 participants, including military officers and their civilian industry counterparts, attended panel discussions, toured exhibits, and listened to and presented lectures on cutting-edge technology at the four day symposium sponsored by the Rocky Mountain Chapter of the Association for Communications, Electronics, Intelligence and Information Systems Professionals and United States Space Command.

AFCEA is composed of military and civilian members in the command, control, communications, computers, and intelligence fields.

"This was our 15th symposium," said AFCEA Rocky Mountain Chapter President Michael Varner. "This year we specifically focused on information operations and satellite communications with the theme being 'Global Leadership in Space and Information Operations.' We addressed two key topics. Information operations, which includes computer

network defense, computer network attack, and public key infrastructure, and satellite communication, where we discussed the benefits of commercial SATCOM and the acquisition status."

In his opening address, Lt. Gen. Edward G. Anderson III, U.S. Space Command deputy commander-in-chief, remarked on the timeliness of the symposium in light of recent virus attacks on computer networks, including his own computer, and the growing dependence of both military and civilian industries on information technology.

"The virus attacks underscore the importance of topics discussed here," said Anderson. "Satellite communications and computer network operations are absolutely critical to us warfighters."

According to Anderson, worldwide communication network vulnerability tends to level the playing field for low-tech countries bent on damaging their high tech neighbors.

"Cyber attack allows nations with lesser capabilities a means to degrade our operations," said Anderson. He also stressed the importance of incorporating more commercial satellite communications to meet military needs.

According to Varner, in addition to an opportunity



Courtesy photo

Military and civilian industry experts discussed the future of space during SPACECOM 2001 in Colorado Springs.

to address advances in the industry, activities like the symposium help Colorado Springs youth and enlisted service members, who benefit from money the local AFCEA chapter donates.

"We have a scholarship program for high school students and enlisted military members," said Varner. "This year we will give away more than \$30,000 to these two programs alone."

'Vigilant Look' prepares CGOs for space leaders' roles

By Capt. Mitch Gates
U.S. Space Command

To develop future aerospace leaders now, Air Force Space Command finished a second Vigilant Look program, designed to evolve space officers into aerospace officers, at Peterson Air Force Base last

month.

The 26 participants represented many career fields, including operations and support officers. The command uses the Vigilant Look program to integrate students from a variety of career fields and Major Commands. Exposure to a cross-section of the Air Force

and the briefings and tours of space and air assets allowed members to see how their work affects the Air Force mission.

"We hope that the Air Force's best and brightest come here, and when they're done with the tour, understand how air and space missions combine to form aerospace operations," said Maj. Ronald Huntley, chief, AFSPACECOM Aerospace Officer Development Section, and Vigilant Look program manager.

"Class size is small to facilitate a cross-flow of ideas and career experience. The cross-flow, coupled with senior leadership perspective and mentorship at each point in the tour, makes this a truly unique program," Huntley added.

Vigilant Look is not an independent program, but one of three Vigilant programs recently created.

Vigilant Look is geared for junior captains.

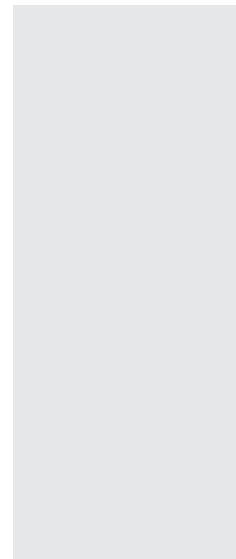
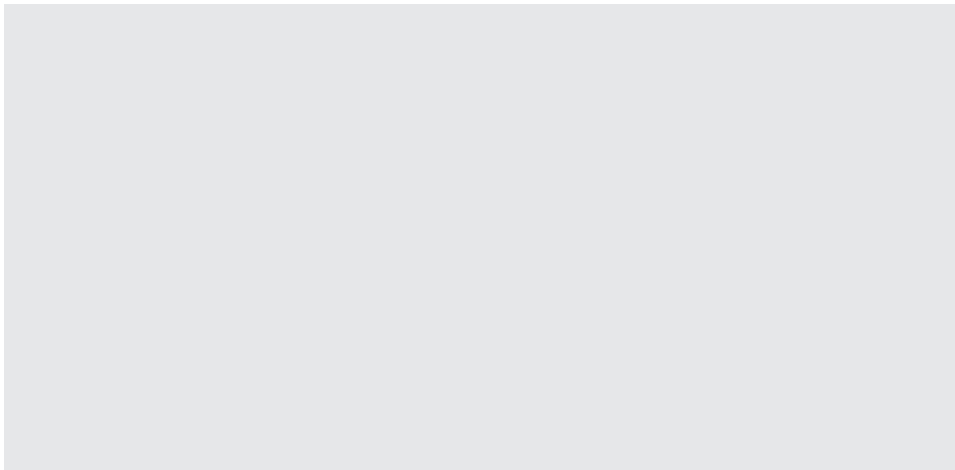
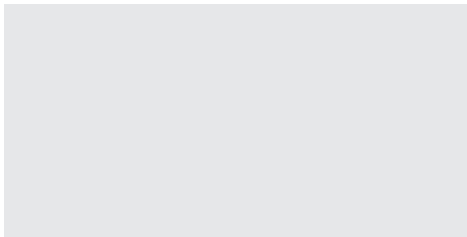
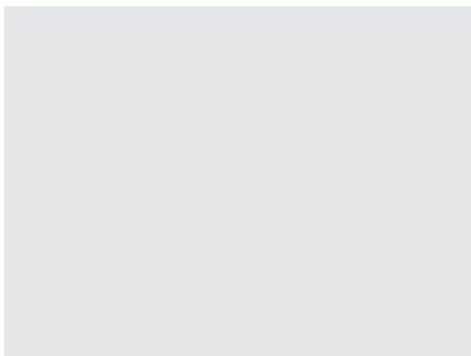
Vigilant Scholar - an advance degree in air/space/

information operations - is for senior captains and majors.

It's an Air Force Institute of Technology program designed to enhance decision-making to meet future technical challenges. Vigilant Eagle, the third Vigilant program, is a selection board to select space squadron commanders.

The Vigilant Eagle board considers applicants from many career fields for assignment as a space or missile squadron commander.

For more information about any of the Vigilant programs, contact Huntley at 554-5398.



NEEDY WOMEN: *History disproves myth of women's helplessness*

By Master Sgt D.K. Grant
21st SW Public Affairs

I had a chat with a colonel back in Albuquerque a few years ago and he espoused the belief that most women are political liberals because they want free things and they want the government to take care of everyone and make all major decisions. "Women don't like to make decisions and they want to be taken care of," he said. Outraged? I was. But he's retired now, and I used to tell my students that sometimes progress happens one retirement at a time.

Still, his was an intriguing perspective. I wondered if it was an empirical hypothesis based on data collection, or did he just "gut" that one. I talked about it with a friend in Ohio who sent me a web site (see reference list on page 10) for the Women's Hall of Fame. Wow! There are hundreds of women listed who have made (and continue to make) significant contributions to social reform, politics, entertainment, education, science, medicine, defense and athletics.

I've included a list of some of those women. Look at the dates and you can see that they've been about the work of change for hundreds of years, and you'll probably note as well that their accomplishments have improved conditions for men and women alike. Some you'll recognize right off. Others may be unfamiliar, as they were to me.

We can't look at all of them, but what they all seem to have in common is the ability to make decisions and take a stand, often risking their lives for it. Within the context of their social limitations, they appear to be able to take care of themselves and others to boot.

Look at Lucretia Mott and Fanny Wright. Women had no rights in their day, but they took a risk to publicly denounce slavery and advocate women's rights. They didn't ask the government to take care of them, and they were certainly capable of making decisions. In fact, because of the decisions they made, they were very unpopular and people thought they were crazy.

Well, here we are 200 years later, and who's crazy now? Had they chosen to "fit in", would we still have slavery or would women still be property in a political patriarchy? Probably not. Some changes are inevitable.

Sometimes the courage for social reform comes as the result of "the final straw." Sojourner Truth and Harriet Tubman were slaves. Who knew better how intolerable that institution was. They chose to fight slavery because to die free was better than living as a slave.

Native American Sarah Winnemucca knew similar agony. A member of the Paiute Tribe, she devoted her life to ending systemic discrimination against Native Americans and to regaining lands taken from the tribes



Lyon



Winnemucca

by the U.S. government. None of these women had to follow the paths they chose, but they made their decisions and, thanks to their efforts, generations of Americans will never be able to truly understand their agony.

Ignorance is the foundation for many of our biases, so education and awareness are weapons many female pioneers have employed. Mary Lyon, Harriet Beecher Stowe, Lydia Moss Bradley, Mary McLeod Bethune, Charlotte Perkins Gilman and Ida B. Wells-Barnett used the tools and skills available to them to educate the nation. Some of their lessons were woven into entertainment media ("Uncle Tom's Cabin" was the top seller of its time), while other lessons were less subtle - many used newspapers and magazines to denounce unjust institutions. Maya Angelou employs both techniques today and enjoys an enormous readership. If you haven't read "I Know Why the Caged Bird Sings," you're missing an incredible reading experience.

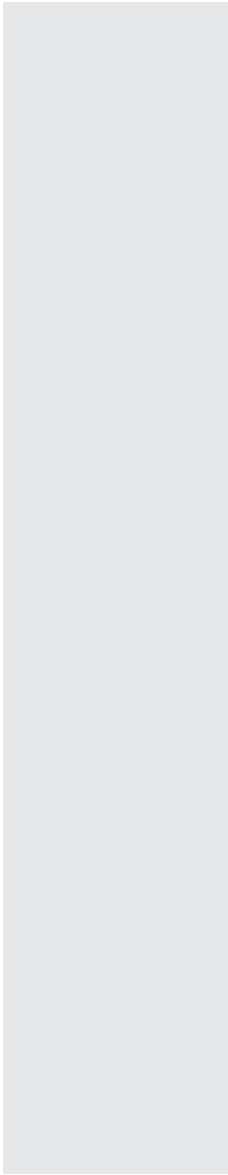
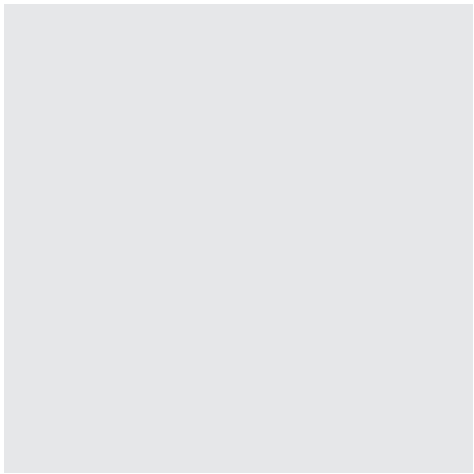
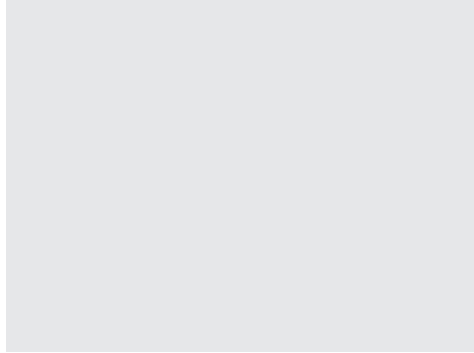
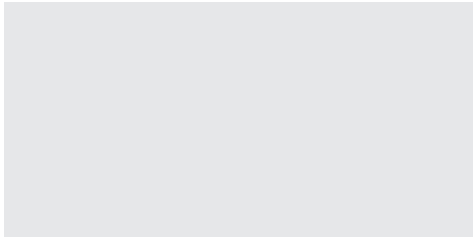
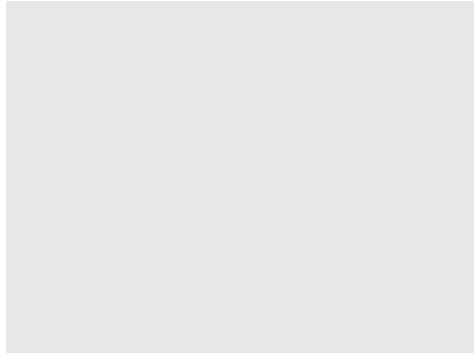
Hannah Greenbaum Solomon and Clara Barton certainly didn't appear to need to be cared for. Solomon's fight for children's rights appeared to be a losing battle from the start. People didn't even think children had rights. Her struggle was compounded by her gender and religious affiliation. She was disregarded and disdained in many power-circles. Nevertheless, she succeeded in righting wrongs done to those completely helpless in society. And who thinks that nursing on the battlefield is easy? Barton was the Angel of the Battlefield on this country's most heinous, grotesque battlefields during the Civil War. The sight of the mutilation and carnage didn't send her into vapors, but rather sent her, rolling up her sleeves, into the thick of the trauma.

So, are most American women political liberals? I don't know. Probably not, but that would be a gut answer. Have American women traditionally displayed weakness, neediness or indecision? Not the ones listed here.

Next week, we'll take a look at some of the women who have shaped American politics and whose influence is embedded in the documents that define our nation.

Women of Courage and Vision

Lucretia Mott (1793-1880) Quaker anti-slavery advocate; after meeting Elizabeth Cady Stanton, became a leader in the women's rights movement **See NEEDY, Page 11**



**Full Page
color ad**

**Full Page
color ad**

Star Performer

NAME: Senior Airman Ayaz Ali
UNIT: 721st Communications Squadron
HOMETOWN: Santa Monica, Calif.
TIME IN SERVICE: 3-plus years
ABOUT ALI: Ali is one of the finest computer maintenance journeyman assigned to the 721st Communications Squadron, according to his commander. Cheyenne Mountain Air Force Station is his first permanent duty assignment after completing technical training at Keesler Air Force Base, Miss.

Ali's primary job responsibility is to maintain the various mainframe computer systems that support the North American Aerospace Defense Command's air, missile and space missions. His duties include preventive maintenance inspections, troubleshooting

faults, circuit card assembly, recovering critical data and normalization of the computers. His performance is above reproach, said his crew chief.

In addition to sterling duty performance, he sets military appearance and work ethic examples. He attributes his motivation and technical knowledge to his supervisor's attention and recognition.

His awards include an Outstanding Team Award, CMAFS Top-4 Super Performer Airman of the Quarter, and Airman of the Year. He was also the unit nominee for the Lieutenant General Leo Marquez Award for the Best Communications-Electronics Maintenance Technician.

One of Ali's attributes is his sincere concern for his community. He works hard to stay involved in such



Senior Airman Ayaz Ali

activities as Habitat for Humanity and serves at the Marion House soup kitchen. He is a regular blood donor and volunteers as a designated driver at unit morale functions. He also makes time to pursue higher education, attending classes at Pikes Peak Community College. In his rare free time, he watches movies with his wife, Kecia, and takes his son, Damain, to the park. His hobbies include going to the gym and working with electronics and sound systems.

Recent graduates from the Forrest L. Vosler NCO Academy

James Norwood III, 721st Communications Squadron	Randall Lowry, 21st CES
Chris Quintana, Cheyenne Mountain Operations Center	Debbie Jewell, 21st Comptroller Squadron
Michael Grosso, 367th Recruiting Squadron	Lonnie Gann, 21st Logistic Support Squadron
Michael Cockrum, Air Force Space Command	Thomas Lafferty, 21st LSS
John Barney, 21st Civil Engineer Squadron	Keith Costa, AFSPC

— **NEEDY, From Page 7**

Fanny Wright (1795-1852) first American woman to speak out against slavery and for the equality of women

Mary Lyon (1797-1849) founder of Mt. Holyoke, the first college for women, in 1837

Dorothea Dix (1802-1887) one of the nation's earliest and most effective advocates for better care of the mentally ill

Sojourner Truth (c.1797-1883) abolitionist born a slave who became a Quaker missionary

Margaret Fuller (1810-1850) literary critic, editor, teacher and author

Harriet Beecher Stowe (1811-1896) author and daughter of a minister, Stowe became one of the first women to earn a living by writing, and publishing, the best-seller "Uncle Tom's Cabin" in 1852

Elizabeth Cady Stanton (1815-1902) suffragist and reformer, convened the first women's Rights Convention in Seneca Falls, NY, in 1848

Lydia Moss Bradley (1816-1908) educator, founder of Bradley University and coeducation advocate



Angelou

Lucy Stone (1818-1893) early suffrage leader who began as an anti-slavery public advocate, followed by a lifetime of work for women's right to vote

Harriet Tubman (c.1820-1913) abolitionist born a slave who eventually became a "conductor" on the Underground

Railroad

Clara Barton (1821-1912) founder of the American Red Cross, Barton ministered to injured soldiers during the Civil War and became known as the "Angel of the Battlefield"

Jane Cunningham Croly (1829-1901) journalist and driving force behind the American Club women's movement which inspired thousands of women into a wide range of social reform activities

Sarah Winnemucca (c.1842-1891) Native American leader who dedicated her life to returning land taken by the government back to the tribes, especially the land of her own Paiute Tribe

Susette La Flesche (1854-1903) member of the Omaha Tribe and a tireless campaigner for Native American rights

Hannah Greenbaum Solomon (1858-1942) club woman and welfare worker on matters relating to child welfare, she organized a nationwide Jewish Women's congress as part of the 1890 World's Fair

Charlotte Perkins Gilman (1860-1935) philosopher, writer, educator and activist who demanded equal treatment for women as the best means to advance society's progress

Ida B. Wells-Barnett (1862-1931) black leader, anti-lynching crusader, journalist, lecturer and community organizer who fought social injustice all her life

Mary McLeod Bethune (1875-1955) black teacher who began a school, with only \$1.50, to help educate young black women and developed it into a college

Helen Keller (1880-1968) author and lecturer; an illness at the age of 19 months left her deaf, blind and mute; through the work of teacher Anne Sullivan, she learned to overcome these daunting handicaps and became a powerful and effective national spokesperson on behalf of others

with similar disabilities

Rosa Parks (1913-) known as "the mother of the Civil Rights Movement," when, in 1955, she refused to give up her seat on a public bus to a white man in Montgomery, Alabama

Ruth Colvin (1916-) founder of the Literacy Volunteers of America, a group which she began in her upstate New York home

Betty Friedan (1921-) reshaped American attitudes toward women's lives and rights through decades of social activism, strategic thinking and powerful writing

Eunice Mary Kennedy Shriver (1921-) founder in 1968 of the Special Olympics for the mentally retarded

Felice N. Schwartz (1925-1996) founder in 1962 of Catalyst, the premier organization working with corporations to foster women's leadership

Maya Angelou (1928-) poet, author and early Civil Rights advocate

Dolores Huerta (1930-) co-founder (with Cesar

Celebrating Women of Courage and Vision Reading and Reference Lists

Books

Women and Music: A History by Time-Life and Henry Woodhead

Women Artists: An Illustrated History by Karin Pendle

Women in Power: The Secrets of Leadership by Dorothy W. Cantor, Bernai Toni, Dianne Feinstein and Jean Stoess

Women of Science: Righting the Record by G. Kass-Simon, Patricia Farnes and Deborah Nash

Women of Words: A Personal Introduction to Thirty-Five Important Writers by Janet Bukovinsky Teacher and Jenny Powell

Web Sites

<http://www.greatwomen.org/> (Women's Hall of Fame)

www.nwhp.org (National Women's History Project)

www.distinguishedwomen.com (reading material, links to book reviews and biographies of significant women in history)

<http://women.com/news/top100/017.html> (Women of the Millennium)

Surviving the downward spiral of instant credit

By 1st Lt. Quentin W. Cox
721st Communications Squadron

Ah yes, the great American dream. John recently graduated from college and settled down with the wife of his dreams. What next? Nothing but the best, of course: That four-bedroom house he's always dreamed about and the new car his wife would look great in.

Since he can't take the dorm furniture with him, he will have to buy the nice bedroom set they've been admiring for some time. And, of course, they have to have that dinette set they like and the washer and dryer they need.

He knows Sara isn't working right now, but she'll find a job soon — he's sure of it. Besides, they don't have to make payments on any of this stuff for six months. This is life at it's best...it

has to be.

Oh no, the great American nightmare.

Six months have passed and Sara still doesn't have a job. John spends his entire paycheck covering the mortgage, the car payments and the minimum payment on the credit cards. He had to borrow money from Sara's mom and dad to buy groceries and to pay the utility bill for three months in a row. And now, Sara's pregnant and won't be able to work longer than six or seven months even if she does find a job. Where did it all go wrong?

Unfortunately, many young couples find themselves living out the great American dream gone awry. What, for many couples, starts out looking like the ride of a lifetime comes to an abrupt stop amid rush-hour traffic. Somewhere along the

way, with the advent of credit cards and government insured mortgage loans, we have abandoned patient and conservative spending habits for the risk and thrill of instant credit spending.

Some might suggest that calling credit spending a risk is extreme, but I disagree. Entering any agreement involving the future without knowing the outcome entails risk, and that's exactly what credit spending is. We enter financial contracts based on anticipation of future monies that may or may not come to fruition. I imagine more than half of Americans due an income tax return know exactly where the money is going within a week of filing.

In the case of John and Sara, they probably never classified any of their spending as risky, but when Sara was unable to find a job and then became

pregnant, they suffered the consequences of the risk taking just the same. They never planned to survive on John's income alone, nor did they plan for all of the expenses a baby would bring.

As much as I would like every reader to cut up or burn their credit cards, pay off their debts and live within their means. It would be a futile effort to ask that of you. Instead, I will close with a simple thought: Living within your means has the power to reduce your stress and increase your marital bliss.

It's not easy, of course. The keys are financial self-discipline and material contentment—values scarcely known in today's America and values that were scarcely seen in the 1920's. Ask yourself this question: Would you be prepared for a depression?

Leadership rooted in discipline

By Staff Sgt. Steve Leavitt
721st Communications Squadron

As we begin a new century, we contemplate the various people who influenced our lives in the 20th century. Recently, Time magazine released its list of the 10 most influential people of the century. The only name on the list that wasn't an individual was the "American GI." Time's choice is a testimony to the quality of leadership provided by the millions of military members around the world.

Discipline carried us through two world wars and bitter conflicts in Korea and Vietnam where the men and women who participated were not necessarily considered heroes. Then came Desert Shield and Desert Storm, where that same discipline was displayed, but this time Americans proudly displayed their patriotic spirit and supported those who were stationed far from home. Today, discipline is still the key to our success, whether we're among those being deployed or those who remain stateside.

Early in our careers, we are provided the

necessary tools to become successful in our chosen profession. We learn to salute and wear our uniforms properly. We ask ourselves, "How can I improve myself and my image? I am a leader and others look to me as the example." Our appearance and bearing give us credibility.

We learn that a winning team is one in which everyone pulls their weight and contributes their very best. Being in the Air Force is about serving our country to the best of our ability.

Unfortunately, it is often the first-line supervisor who gets us off track. Have you ever heard someone say, "Forget everything you learned in basic—this is the real Air Force. Call me Sue/Steve?" At this point, a fundamental breakdown in discipline begins.

To succeed, we need to teach our new Air Force members to embrace discipline and ensure that each one knows that discipline is the foundation for a strong military, and essential for combat survival. We spend a lot of time focusing on the fundamentals for a reason — everything we do is based on discipline!

New Items

BAND OF THE ROCKIES: The United States Air Force Band of the Rockies presents another performance in the Fine Arts Chamber Series March 20, 7:30 p.m., at the Colorado Springs Fine Arts Center Music Room. The concert will feature Tech. Sgt. Nancy Valenciano, vocals, and Tech. Sgt. Tim Allums, trumpet. The concert is free and tickets are not required.



PETERSON OWC: Peterson Officers Wives Club will host a "Personality Plus" seminar, presented by Shirley Lindsey, certified personality trainer, March 17, 9 a.m.-1 p.m., in the Colorado Springs Community Church, 7290 Lexington Ave. Breakfast and lunch will be provided. Call Miranda Sherman at 264-6735 more information.

POWC MERIT SCHOLARSHIP: Applications are available at the Peterson Officers Club, Peterson Enlisted Club, chapel, library, education center and at all area high school counseling offices. The application deadline is Thursday. Those eligible include dependents of active duty military, DOD civilians and retired or deceased military members, who live in the Colorado Springs area and have some connection to Peterson AFB, Cheyenne Mountain or Schriever AFS, and who are enrolling in a college or university. For more information, call Robin Opel at 472-1620.

HAWC NOTES: March is National Nutrition Month, and in addition the Health and Wellness Center's regular nutrition classes, the HAWC will offer special nutrition classes on subjects like eating on the run, a commissary tour, and a healthful cooking class. Programs will be conducted at the U.S. Air Force Academy HAWC. For more information, contact Cindy White, exercise physiologist, at 556-6662.

Miscellaneous

GOLF SUMMER FASHION SHOW: The Peterson Ladies Golf Association and the Silver Spruce Golf Course will host a summer fashion show in conjunction with the association's annual meeting March 29, 9 a.m., at the course. Coffee, tea, juice and assorted pastries will be served. A 15 percent discount will be offered on all sportswear purchased at the fashion show, and 10 percent discount on special orders. For more information, call 556-7414.

SPACE SYMPOSIUM: The 17th National Space Symposium, hosted by the Space Foundation, will be April 9-12 at the Broadmoor International Center. Featuring top national and international leaders, the symposium's theme this year is "Space 2001: An Earth Odyssey." As in past years, the symposium needs volunteers to help with media relations, escort speakers, assist with presentations, man information booths, coordinate transportation, support registration and provide security services. Volunteers will have unlimited access to exhibits and may attend speaker sessions as well. For more information or to learn how to volunteer, go to the symposium web site, www.ussf.org/symposium01 and select the "volunteer" button. Active duty military may also contact the volunteer coordinator, Lt. Col. Charlie Manship, at charles.manship@peterson.af.mil, or call 554-9304.

WASTE PICKUP: Volunteers are needed to support the El Paso County Household Chemical Waste Collection program April 27-28 at Penrose Stadium. Volunteers will help unload tires, oil, paints, solvents and other chemical wastes, as well as help direct traffic. For more information or to volunteer, contact Joe Partoll at 556-1458. Volunteers should contact Partoll by April 3.

EXTENDED CARE SERVICES: The Peterson Family Child Care Program has added extended care services, offering longer hours of care in Air Force licensed FCC homes. Eligibility requires at least one parent be an active-duty member, reserve or guard on active duty, dual-employed (married to civilian) or DOD civilian employee. For more information, call Steve Canales at 556-4322 or 554-9579.

Family Support Center 556-6141

CLASSES: Classes are held in the Peterson Family Support Center classroom, 135 Dover Street, Building 350, Room 1016 (unless otherwise specified). Registration is required for all classes. To register, call family support at 556-6141 or stop by the center.

VOLUNTEER OPPORTUNITIES: To review a list of volunteer opportunities from District 11 schools contact Larry Land at 556-9268.

AIR FORCE AID EDUCATION GRANT: The Society's General Henry H. Arnold Education Grant Program awards \$1,500 grants to sons and daughters of active duty, retired or deceased Air Force members, retired reservists over age 60, and Title 10 reservists on extended active duty (no other reserve or air national guard are eligible). Spouses are also eligible if their sponsors are assigned to CONUS. Visit your Air Force Aid Society office to pick up an application or download one from www.afas.org.



JOB ORIENTATION: The job orientation class, slated for Thursday and March 22 and 29, 1-2:30 p.m., offers a brief overview of local job market information and how family support can help seekers with their job search.

APPLYING FOR FEDERAL CIVILIAN SERVICE: A representative from the civilian personnel office will provide tips on filling out applications and resumes for civil service during a seminar March 14, 11:30 a.m.-12:30 p.m.

Military Personnel Flight 556-7377

COMMAND CHIEF: The Air Force Personnel Center Chief's Group and Headquarters Air Combat Command need volunteers to apply for the command chief master sergeant position, 67th Information Operations Wing, Kelly AFB, Texas, reporting no later than June 4. Contact the military personnel flight customer service section, 556-7377, and ask for bulletin 9. To volunteer for the command chief master sergeant position, 1st Fighter Wing, Langley AFB, Va. (report no later than June 30), call MPF and ask for

Community Activities Center 556-7671

SCUBA TRIP: Sign up today for an April 12-17 SCUBA trip to Key West. Registration will be in the fitness center from 10 a.m.-2 p.m., and full payment is due at registration. For more information, call the CAC at 556-1733 or 556-1737.



ROCKIES SEASON OPENER: The Colorado Rockies baseball team season opener against Seattle will be April 2. For more information or to get your tickets, call 556-1733. Deadline to sign up is March 30.

CRAFT FAIR: A craft fair will be held at the Peterson Officer's Club ballroom April 6, 10 a.m.-2 p.m. Table rent is \$10 each. For more information or to register, call CAC Manager Deb Connor at 556-1737. Deadline is April 2.

Civilian Personnel Flight 556-7073

CIVILIAN EMPLOYEE HEALTH BENEFIT SERVICE DAY: Representatives from Blue Cross/Blue Shield, AETNA U.S. Healthcare, Government Employees Health Association, PacificCare of Colorado and Kaiser Permanente, will meet with Peterson Complex civilian employees to discuss any questions or concerns regarding their health insurance coverage, Wednesday, 9 a.m.-1 p.m. in the CPO Training Room. For more information, call Beverly Sagapolutele at 556-7073.

MILITARY PERSONNEL MANAGEMENT COURSE: The Military Personnel Management Course is designed for civilian supervisors of three or more military members. Supervisors of fewer military members may attend if space is available. The course provides background information and an understanding of applicable military personnel rules and regulations needed to meet supervisory/management responsibilities. Subjects covered include expeditionary aerospace forces, promotions and recognition, officer and enlisted performance reports, leave management program, professional military education, discipline and standards, retention issues, mentoring, weight management program and military administrative issues. Sessions will be April 10-11, July 31-Aug 1, and Sept. 18-19. For more information, contact Beverly Sagapolutele at 556-7073 or Beverly.Sagapolutele@peterson.af.mil.

Education Center 556-4064

WEBSTER UNIVERSITY: Webster is now enrolling for the spring term, March 17 - May 17. Active-duty military student tuition rate is \$249 per credit hour for all Colorado Springs Webster University courses. Call 574-7562 for more information.

PIKES PEAK COMMUNITY COLLEGE: Spring Term 4 registration is underway at the education center, with lunch-time and evening classes available. CSC 116 - Problem Solving with EXCEL - has been added to the course schedule. For more information, call 574-1169, ext. 100, or visit room 112 at the education center.

VEAP / MGIB CONVERSION: Public Law 106-419 provides an opportunity for certain VEAP participants to participate in the Montgomery G. I. Bill. The education office will receive a list of eligible members within the next two weeks and will notify all eligible active duty Air Force members. The opportunity will affect more than 25,000 Air Force members. The intent of the law is to catch the people who contributed to VEAP at one time in their careers, but may have withdrawn their contributions, making them ineligible for the last conversion. More information will be provided as it becomes available.



Commissary 556-4500

HOURS OF OPERATION:
Sunday - 9 a.m.-5 p.m.
Monday - CLOSED
Tuesday - 9 a.m.-8 p.m.
Wednesday - 9 a.m.-7 p.m.
Thursday - 9 a.m.-7 p.m.
Friday - 9 a.m.-8 p.m.
Saturday - 8 a.m.-6 p.m.



The commissary is open for handbasket shopping at 7 a.m. Tuesday-Friday, (15 items or less). Stop by early to purchase donuts, breakfast pastries, or a sandwich from the "Grab-N-Go" case. Help yourself to a free cup of coffee.

Bowling for dollars

Wing bowlers earn dollars to support 21st Guardian Challenge competitors

Twenty-first Space Wing bowlers raised more than \$2,000 during the Wing's Guardian Challenge Bowl-A-Thon Monday.

Fourteen teams consisting of five bowlers each, solicited pledges to help pay for team uniforms and other costs associated with the Guardian Challenge competition May 7-11.

Guardian Challenge is the only space warfighter competition in the Air Force. The competition pits the best-of-

the-best in the command, determining the top space wing teams. Teams compete for awards in missile operations, space operations, security forces, helicopters, food services, missile maintenance and missile communications.

Competitors in the annual Guardian Challenge Bowl-A-Thon played three nine-pin, no-tap games for bragging rights as the best bowlers.

Prizes were awarded for highest team score, highest individual score and prizes

were even awarded for the lowest team and individual scores.

The 21st Communications Team earned the highest team score and individual high score, while the 21st Space Wing team earned the dubious honor of lowest score.

Door prizes were awarded and the bowler who raised the most in pledges earned a prize as well.

The 21st Services Squadron donated prizes for the winners.



Fourteen teams participated in the Guardian Challenge Bowl-A-Thon Monday.

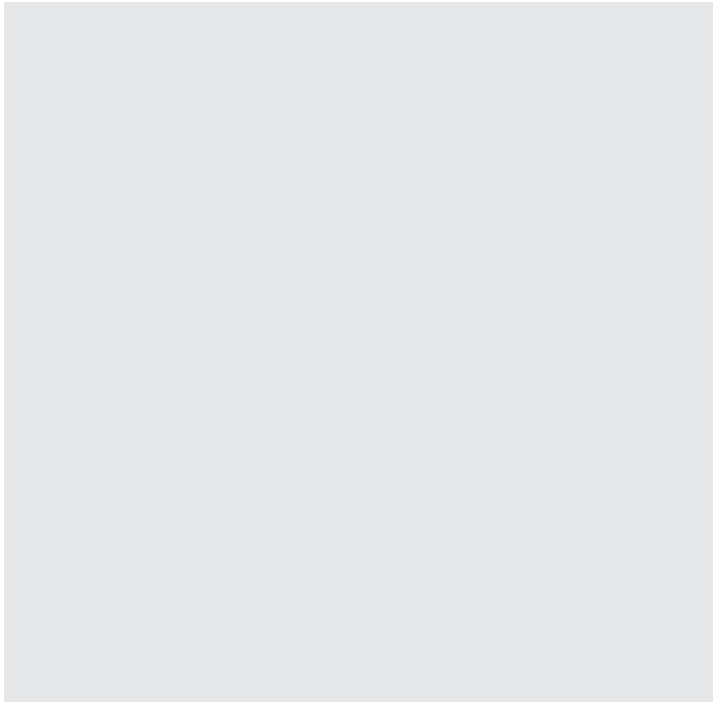
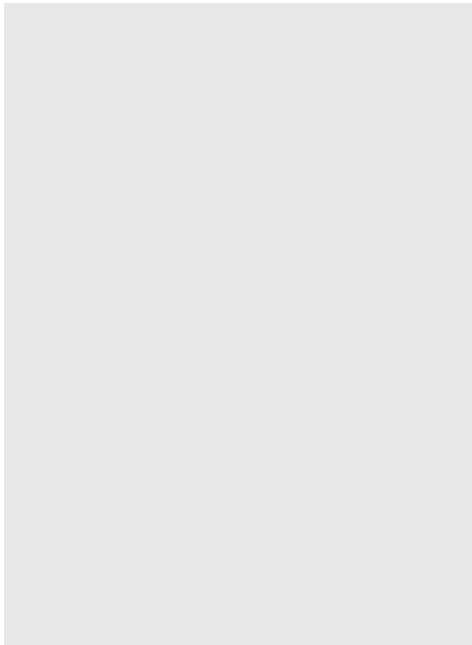
Photos by Dennis Houk



A bowl-a-thon participant demonstrates proper bowling technique during competition Monday.



The 21st Communications Squadron team bowled its way to the highest team score and highest individual score.



DS sneaks by AFSPC B in exciting match up

By Airman 1st Class
Brian Hill
21st Public Affairs

The Air Force Space Command B team took the Director of Staff to the third and deciding game, but didn't have enough to win the game in opening day competitive-league intramural volleyball here Tuesday.

The DS team commanded the first game early, with Cindy Compoc serving up six unanswered points before the first sideout gave the AFSPC team their first point.

They would never catch up though.

AFSPC lost several points in the match due to a lack of players. With only five play-

ers, the rotation made a side-out come up three times in the first game – three free points for DS.

The final score of game one was 25-8.

In game two, AFSPC turned things around by taking advantage of DS mistakes. It was a close game at the beginning, but after four points, DS started showing a lack of desire to win the game. The fierce offense from game one disappeared and the handicapped AFSPC team was able to take a 25-11 win, forcing a tie-breaker game.

The coin toss was won by DS and so was the game. The intensity returned and DS came through with a 15-8 win to take the match.

Tuesday's Competitive Lunch Volleyball scores

AFSPC "B"	25	19	15	AFMC	25	25
21 CS	20	25	10	10 AMDS	19	12
DET 4	25	25	7	AFSPC		
HQ NORAD	27	16	15	AFSPC-C	forfeit	
21 SW	25	11	15			
AFSPC "B"	8	25	8			



Photo by Airman 1st Class Brian Hill

Rec-league volleyball

Sports Shorts



Photo by Airman 1st Class Shane Sharp

Basketball champs

The 10th Medical Group's competitive league intramural basketball team won the competitive league championship Feb. 23, beating the 2nd Space Operations Squadron 62-48. Here, the winners gather for a photo with their championship trophy. From left to right are Reggie Fields, Todd Carlson, Will Young, Frank Cruz and Tereyl Mcfarland. Not pictured: Jason Crow and Donnie Turner.

Cheyenne Mountain St. Patricks Day 5K run

Cheyenne Mountain will host a 5K run beginning at 11:30 a.m. today. There is a \$1 entry fee, \$10 if you want a T-shirt. Call 556-1515 for more information and to sign up.

Sports council meeting

There will be a sports council meeting, 10:30 a.m., Monday, in the Health and Wellness Center. Call 556-7708 for more information.

Intramural pool (8-ball)

An intramural pool coaches' meeting is scheduled for March 19, 10:30 a.m., at the sports and fitness center

Intramural walleyball

There will be an intramural wallyball coaches' meeting March 16, 10:30 a.m., at the sports and fitness center.

Intramural Golf meeting

There will be an intramural golf meeting 1 p.m. Wednesday at the golf course club house. For details, call Maggie Davis at 556-4463.

Silver Spruce Golf Course

To check playing conditions and hear the weather recording, updated every morning at 7 a.m., call 556-7810. For other course information, call 556-7414.

Outdoor recreation winter hours

Outdoor recreation winter hours are Monday 6 a.m.-7 p.m.; Tuesday through Friday, 9 a.m.-7 p.m.; Saturday and Sunday 9 a.m.-5 p.m. For rental equipment prices and other information, call 556-4867 or 556-4487.



Basic welding classes

- Class 1 – Gas Welding, Mar. 14
- Class 2 – Mig Welding, Mar. 15
- Class 3 – Arc Welding, Mar. 16

Each class meets 5:30-7:30 p.m. at the Auto Skills Center. Cost is \$15 per class. Register by Sunday. Call 556-4481.