RoadRunner demonstrates revolutionary space capability

Satellite’s experiments to assist the joint warfighter on the ground

By Michael Kleiman
Air Force Research Laboratory Space Vehicles
Greenwave Photo Apps

In the near future, “responsive satellites” will provide United States and allied ground forces with a revolutionary tool that delivers imagery or other information on enemy operations directly to the joint forces commander.

The cutting-edge technologies required to provide this futuristic capability have already been developed by military scientists and engineers and will soon be demonstrated by the Joint Warfighting Space Demonstration-1/RoadRunner satellite.

The responsive space concept involves three key capabilities: responsive satellites, responsive launch and responsive operations. Currently, it takes more than a decade to design, develop and test a typical surveillance satellite. It then requires about a year

See RoadRunner, Page 11

A researcher with Science Applications International Corporation, San Diego, Calif., performs an evaluation of the RoadRunner’s optical telescope in March. RoadRunner is pioneering the way to responsive space capabilities – satellites that will be planned, assembled and launched in well under a month.

Air Force changes fitness test criteria

By Staff Sgt. C. Todd Lopez
Air Force Print News

WASHINGTON — Air Force officials are making a few changes to the physical fitness test used to assess the fitness of Airmen.

In January 2004, the Air Force underwent a major change in the way it looked at fitness. As part of the Fit-to-Fight program, the service adopted a more stringent physical fitness assessment measuring aerobic fitness, physical strength/endurance and body composition.

Now, 18 months into the program, senior leaders are ready to tweak the assessment to make it even better, said Lt. Gen. (Dr.) George Taylor, Air Force Surgeon General.

“We have gotten together a group of scientists and done surveys asking folks if they like the assessment and are there issues with it,” Dr. Taylor said. “This last year we brought an update to Corona (a meeting of Air Force leadership) and are now in the middle of updating a few changes to the Air Force instruction that defines the fitness evaluation.”

Updates to AFI 10-248 will include a change in how body composition is measured, a new table for the running portion of the test taking into account the runner’s elevation, and a change in the number of days an Airman must wait before retesting after having scored in the marginal category.

Under the original fitness evaluation, body composition scores were based on abdominal circumference only. The updated AFI will now direct that body composition also be measured using body mass index.

Body Mass Index is calculated by dividing weight in pounds, by height in inches squared, and multiplying the result by 703. According to the Centers for Disease Control and Prevention, those with a BMI between 18.5 and 24.9 are considered to be normal. Those with a BMI of 25 or above are considered overweight.

Under the updated AFI, Airmen with a BMI of less than 25 will earn the full 30 points for body composition. For Airmen who score a BMI 25 and above, Dr. Taylor said, the results of the waist measurement would be used to calculate their test score.

“That will still be an important measure of their health,” he said. “Waist measure is closely
Tolerance – a sign of respect toward others

By Brig. Gen. William Kane
302nd Airlift Wing commander

Any of you who read the newspaper or watch the news are aware that religious tolerance is a newsworthy subject at the moment. Let me share some of my thoughts on the issue.

I think nearly every Air Force member would agree an individual’s religious beliefs are personal issues and are not the business of anyone in the Air Force. Clearly, the official Air Force policy is tolerance.

When I think of intolerance, I think of specific acts like name-calling or graffiti. I hope no one in the Air Force has any doubts about how inappropriate and unacceptable that type of behavior is. Further, there should be no doubt that such behavior cannot be tolerated at any level.

There is another level of disrespect for another’s faith that is more insidious. That involves an individual’s efforts to convert those of different faiths or efforts to include others in religious activities that may or may not be welcomed.

Many Air Force members who are strongly religious often want to share their powerful beliefs with others. Within the workplace, that may create a problem. Let me give you a “what if”. Let’s say your shop chief invites you to a Bible study in the workplace. You don’t know if the boss might hold it against you if you don’t go. As the boss, what were your expectations? Could they be misunderstood? Would my “what if” be different if the Bible study were after work?

My answer would be that both are inappropriate. Anytime you intrude into a subordinate’s beliefs you have overstepped your bounds as a supervisor. Further, using the workplace for religious purposes is rarely appropriate, except in the chapel setting.

Why then, you might ask, do we have chaplains?

Clearly, chaplains are officers with religious responsibilities within the Air Force.

First you need to understand that within the Air Force there is a desire and an effort to have all faiths represented by chaplains.

However, every chaplain, no matter what his or her personal faith, is obligated to represent all faiths. They work hard to be ecumenical and to minister to the needs of military members independent of the chaplain’s or the individual’s personal beliefs. Undoubtedly, they work to support the individual’s spiritual needs without intruding uninvited into their religious space.

In the end, it comes down to respect. We must respect one another. Whether it is with respect to religion, race, ethnicity, gender or rank, we must respect one another. That means we must be respectful of someone’s religious beliefs, even if they are very different than our own.

As you analyze your tolerance level, ask yourself: “Am I being respectful to their faith? Am I trying to push my beliefs onto someone else?” The answers to those questions might help you be tolerant.
Federal health benefit premiums extended for Reservists, Guardsmen

RANDOLPH AIR FORCE BASE, Texas — Department of Defense civilian employees called to active duty supporting a contingency operation may continue their Federal Employees’ Health Benefits coverage, and have the agency pay their share of the premiums, for up to 24 months.

This applies only to reserve component civilian employees called or ordered to active duty supporting a contingency operation on or after Sept. 14, 2001.

The law extended coverage from 18 to 24 months, and provides that agency-paid premiums start the date an employee is placed on leave without pay or separated from civil service to perform active duty. Previously, coverage and agency payment of premiums began the date the employee entered active duty.

“The benefits and entitlement service team has automatically extended from 18 to 24 months the coverage and agency-paid premiums for Air Force-serviced employees currently on active duty whose FEHB coverage has not yet been terminated and who meet … eligibility requirements,” said Janet Thomas of the Air Force Personnel Center’s civilian benefits and entitlement service team here. “The beginning date was also adjusted.

“Periods of time in a paid leave status during the 24-month period do not extend the 24-month period,” Ms. Thomas said. “FEHB premiums withheld during these periods of paid leave will not be reimbursable.”

Questions may be addressed to a BEST benefits counselor by calling 800-616-3775. People can press ext. 2 for Air Force serviced civilian, then ext. 2 for BEST benefits and entitlements, and follow the prompts. Employees located in foreign areas can dial a toll-free direct-access number for the country they are in, then 800-616-3775.

Direct-access numbers are located online at www.business.att.com/bt/dial_guide.jsp.

For information, visit www.afpc.randolph.af.mil/dpc/best/docs/FEHB_24_Months.pdf.

(Courtesy of Air Force Personnel Center News Service)

Eligibility requirements for the 24 months coverage and agency-paid premiums

- Must be a civilian employee of the DOD at the time called to perform active duty.
- Must be called to active duty on or after Sept. 14, 2001.
- Must be enrolled in FEHB and elect to continue the enrollment while on active duty.
- Must be a U.S. reservist or guardsman.
- Must be called or ordered to active duty (voluntarily or involuntarily) supporting a contingency operation as defined in 10 U.S.C. 101(a)(13).
- Must be placed on leave without pay or separated from federal civilian service to perform active duty.
- Must serve on active duty for a period of more than 30 consecutive days.

New space boss

Major Gen. Daniel Darnell, Space Warfare Center commander, hands the guidon to Lt. Col. John Riordan, the new 595th Space Group commander. Colonel Riordan, assumed command of a group with nearly 700 people in seven squadrons with operating locations across United States. The mission of the 595th Space Group is to enhance, and provide confidence in, Air Force warfighting capabilities through advanced training, operational testing and tactics development.

Photo by Dennis Plummer

Submit a Wingman story highlighting how you have helped a fellow airman or how a fellow airman has helped you to the Space Observer (space.observer@peterson.af.mil)

You may win a ONE DAY PASS

Wingman coin design contest

Do you have an idea for the design of the Wingman coin? Submit your graphic design to space.observer@peterson.af.mil

Deadline for entries is July 21

Winning submission will receive the first coin
LAUGHLIN AIR FORCE BASE, Texas — Why does the Air Force continually attempt to mentor, develop and shape us as Airmen?

It’s not because the Air Force needs good men and good women; rather, it’s because the Air Force needs great men and great women. We need individuals willing to take the personal tools that we’ve been given and diligently forge them into skills of greatness. Not greatness for ourselves, but greatness for service – service to humanity.

As I reflect on the great men and women that I have been honored to serve with, I have noticed three distinctive characteristics that make the difference between good and great: professionalism, integrity and humility.

Professionalism is ensuring that the job we are given is done right. When we complete a task, we must be willing to sign our name to it and consider it a personal beacon, a reflection of who we are and what we bring to the fight. Our deeds define our reputation and our reputation defines our lives.

Our professionalism is measured every day by the passion in which we seek lasting solutions and by the spirit of excellence that we demand of ourselves and of those around us.

If professionalism is doing the job right, then integrity is doing the right job. While professionalism is a beacon of our lives, integrity is the banner of our heart. A man or woman who cannot be trusted will not ever reach the level of greatness that our military calling requires.

My father taught me that it takes a long time to build trust and only a moment to lose it. Our lives, what we say, what we sign, and what we claim to believe cannot be laden with folly. In our profession, there is simply too much at stake. Instead, we must build a banner of integrity that is beyond reproach, beyond question.

Finally, it is the virtue of humility that will lead our lives to greatness. We are taught to “do nothing out of vain conceit or selfish ambition, but in humility consider others greater than ourselves.”

A man without humility risks intoxication by his own perceived power. True greatness, the kind of greatness needed throughout our military service, will only be found in those rare individuals that seek wise council, admit when they are wrong, and allow others to take the credit for success.

Professionalism, integrity and humility: characteristics that empower our ability to serve. Our individual challenge is to continually develop and improve all three. They simply make the difference between good and great.
Event inducts new senior NCOs

The Team Pete senior NCO corps will honor the newest members of its ranks at the senior NCO induction banquet 5:30 p.m. July 29 at the officers’ club. The banquet is the culmination of the new week-long standardized Professional Enhancement Program seminar. Instructors introduced the inductees to tools and techniques that improve performance and increase their effectiveness as new SNCOs. To attend the banquet, call Senior Master Sgt. Scott Turner at 554-3610.

PPoBR pink shirt night

Tonight’s Pikes Peak or Bust Rodeo performance is designated as Pink Shirt Night to raise funds to fight breast cancer. Performances start at 7 p.m. at the Norris-Penrose Events Center.

Housing quality survey underway

Members of the Peterson Housing Office is distributing surveys to determine the residents’ likes and dislikes related to the property management services, the property and their performance. The survey should take five minutes to complete and then mail it in the pre-paid envelope accompanying the survey. For information, call Willie Carter at 556-7174.

Medical group announces ceremony schedule

The 21st Aeromedical-Dental Squadron will be deactivated during a ceremony 9 a.m. July 21 at the Peterson Enlisted Club in the ballroom. During the same ceremony the 21st Dental Squadron and the 21st Aerospace Medical Squadron will be reactivated.

East gate undergoes construction

The east gate is undergoing construction through Aug. 5. There will be one inbound and one outbound lane open. People should use the west and north gates for entering and exiting Peterson Air Force Base.

Civil engineers announce new road closures

The 21st Civil Engineer Squadron Horizontal Shop are making pot hole repairs base-wide from mid-July to early August. The repairs vary from the parking lot at the shoppette to roads such as Vincent, Ent and Ottis. Each closure will start at the end of the work day. Asphalt removal will occur overnight and new asphalt will be placed in the morning opening the area to traffic later in the day. For information or to report new potholes, call the civil engineer customer service desk at 556-4030.

Special-duty positions available

The 21st Civil Engineer Housing Flight needs volunteers from the 21st Space Wing to fill a special-duty position. Staff sergeants may apply for the dormitory manager position. The duty position promotes excellent career enhancement through enriched breadth of experience in a diverse leadership position. Special duty applicants must emulate strong military bearing, possess excellent leadership skills, have experience management skills and be dynamic team builders. Selected individuals will be assigned to the 21st CES for a minimum of two years under the career designator 9D000. Special duty applicants must submit a package containing a letter expressing their interest in the position, endorsement from their squadron commander and/or first sergeant and copies of their last three enlisted performances reports. For information, call Master Sgt. Thomas O’Neill at 556-1409.

Legal office staff requests volunteers

The 21st Space Wing legal office staff needs volunteers at 10:30 a.m. and 1:30 p.m. Wednesdays to witness and sign wills at the base legal office in Building 350. Volunteers must be at least 18 years old. For information, call 556-1710.

Peterson clinic staff offers sports and school physicals

Physicals are conducted by appointment only. Appointments will be offered through Sept. 1. To schedule an appointment, call 556-2273.

Peterson Development Center hosts professional enhancement programs

- The right decision workshop takes place from 12:30 to 4:30 p.m. August 16. The workshop is for members with 12 to 15 months of their separation date.
- The NCO course takes Aug. 1 through 5. This course is for staff and technical sergeants who haven't had professional military education in more than three years.
- The senior NCO promotion process seminar takes place from 8 to 10 a.m. Sept. 29.
- The sexual assault awareness and prevention seminar takes place, for females from 1 to 2:30 p.m. and takes place, for males from 2:30 to 4 p.m. Sept. 8.
- The mentoring seminar takes place from 1 to 4 p.m. Aug. 18.

All the classes take place at the professional development center. For information, call Master Sgt. Kristin Clark at 556-9226.
Military personnel flight announces minimal manning hours
The military personnel flight will be minimally manned from 11:30 a.m. to 5 p.m. today, due to an official unit function. The customer service desk will remain open to issue identification cards and common access cards. For information, call Capt. Gregory Letendre at 556-7135.

Military personnel flight offers cell phone use guidance
The use of cell phones in uniform, indoors and outdoors, for other than official government business is unauthorized. Hands-free cell phone use, indoors and outdoors, in uniform is also unauthorized.

FSC offers training programs for military spouses
The Peterson and Schriever Family Support Centers are offering virtual assistant training from July 25 to 27 at Building 350. Virtual assistants are self-employed professionals who provide off-site administrative support services to their clients. Virtual assistants work from home to provide these services.

The FSC is looking for people who have a minimum of two years of administrative support experience, Internet access, a good working knowledge of how to use basic applications, a computer with Windows 95 or newer operating system, and a strong desire for employment or an employment change. For military spouses who would like to participate in this free training program, call 556-6141, or access the online application at www.msvas.com/application_Colsprings.htm.

Deployment and remote tour briefings available
This mandatory briefing takes place from 11 a.m. to noon Tuesdays at the family support center. The briefing is for those who are deploying or going on a remote tour. This briefing educates members on the three phases involved with separation and the programs that are available for the families left behind. Spouses are encouraged to attend.

Family support center offers overseas briefing
Offered once a month, this briefing provides useful information on travel, culture, customs, currency, voltage requirements, telephones and what items to take on an overseas move. This briefing takes place from 8 to 9 a.m. Thursday at the family support center.

Pre-separation briefing available for retiring, separating members
This mandatory briefing takes place from 3 to 4 p.m. July 27 at the family support center. This briefing is offered every other week for those who are retiring or separating from the military. People must receive this briefing no later than 90 days before separation or retirement. This briefing is to ensure that members have sufficient information and time to take full advantage of your benefits as a veteran and to explain the services of the Transition Assistance Program.

Family support center offers job orientation briefing
This briefing takes place from 1 to 2 p.m. today at the family support center. This briefing provides people with an overview of information on the local job market and how the FSC can help your job search. This briefing is offered every other week.

Team Pete around the globe
The 21st Space Wing operates 15 weapon systems, comprises 41 units in 26 locations in four countries, and spans nine time zones throughout the world. Team Pete has 81 deployed members supporting various operations across the globe. The 21st Space Wing makes up 17 of those members.
Damage to private property
A member reported that his vehicle was damaged while in the base exchange parking lot. The damage consisted of a 10- to 12-inch long scratch on the front passenger side lower bumper. There are no witnesses or suspects at this time. People should be respectful of others private property and think of how they would feel if this type of incident happened to them and report any such activity to security forces immediately.

Theft of private property
A servicemember reported to security forces that her engagement ring had been stolen from her residence June 30. Security forces arrived on the scene and made contact with the owner. The victim said two individuals from a moving company were in her residence during that day. People should respect one another’s private and personal property and think how they would feel if someone took their ring from them.

Damage to government property
A security forces member while conducting a routine patrol noticed an intersection sign on the ground. While inspecting the damage, a witness stated he saw a moving truck hit the sign while he was in his front yard. The witness also said the truck driver attempted to put the sign back up and then drove away when he couldn’t. People should use extreme caution or perhaps a spotter when backing up to avoid an incident like this.

Minor vehicle accident
Security forces responded to the Bldg. 1 parking lot following the report of a vehicle accident July 5. The witness stated that a silver Mitsubishi Eclipse rolled out of its parking spot and struck the other vehicle. Both vehicles received minor damage. A citation was issued to the Eclipse driver for leaving a vehicle unattended on a grade without setting the parking brake.

Theft of private property
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Unattended package
The latest terrorism exercise pitted a suspicious package against Airman awareness. On the heels of the terrorist bombing in London, Peterson personnel wasted no time in notifying base security of this package left in the entrance to 21st Civil Engineer Squadron building.
By Donna Miles
American Forces Press Service

WASHINGTON — Civil service employees who soon will come under the new National Security Personnel System have an opportunity to help shape the program.

The new National Security Personnel System Factor Survey gives general schedule employees the chance to register their views about several performance factors identified for inclusion in the new personnel system.

“Now we need your assistance to ensure that these performance factors are relevant and reflect work that you personally perform on your job,” Gordon England, acting deputy secretary of defense, wrote in a June 29 memo to Department of Defense civilian employees.

Mr. England emphasized the importance of the survey in his memo. While stressing that participation is voluntarily, he urged civil service employees to participate.

“I thank you for your feedback and participation in the NSPS design process thus far,” Mr. England wrote. “We still need your help.”

The survey period began July 6 and continues through Wednesday.

Charles Abell, principal deputy undersecretary of defense for personnel and readiness, urged employees to take the 15 or 20 minutes required to complete the online survey to ensure their views are known.

Views expressed in the survey will have long-term implications, Mr. Abell said. The results will help program implementers determine what factors will be used to evaluate employees’ job performance for the next 15 or 20 years.

“‘It’s an opportunity for (employees) to have a voice in the system that they are going to be living under and to make sure that we get it right,’” said Mary Lacey, program executive officer for the NSPS. “And we want to get it right,” she said. “We want to hear what employees have to say, and we want them to be a part of our design process.”

Ms. Lacey said system designers are particularly interested in hearing from civil service employees who have been part of DOD personnel demonstration programs.

“They bring to the table real experience in a system that has National Security Personnel System-like features,” she said. “So we think their input will be incredibly valuable.”

Meanwhile, progress continues in putting the new personnel system in place. The current goal is to publish the final regulations in the Federal Register by summer’s end and begin bringing the first employees into the system by the end of the fiscal year, Ms. Lacey said.

However, she said, the implementation schedule will be “event-driven,” and “we are not going to take certain steps until we are ready.”

Once in place, the new personnel system is expected to benefit the Defense Department and its civilian employees alike by doing away with outdated, bureaucratic policies.

“Department of Defense is a dynamic institution,” Mr. Abell said. “Our mission has changed, our focus has changed, and this will allow the civilian-employee workplace to change with that changing mission and changing focus of our leadership.”

One of the system’s key features is a pay-for-performance plan that rewards and recognizes individual performance and contributions.

The new system also will allow employees to get more involved in their individual career development, with broad pay bands and occupational groupings giving them more flexibility to shape their careers, Ms. Lacey said.

The result, Mr. Abell said, will be a workplace that’s “more productive (and more) efficient, with our jobs aligned with our mission.” Once the system is implemented, DOD “ought to be a happier place to live and work.”

To complete the NSPS factor survey, visit http://pfsurvey.net/nsps
Tee Time

Greg Lambert lines up a shot during the 20th Annual Mount Dundas Open July 3 at Thule Air Base, Greenland. The Open is the northern-most golf tournament in the world. More than 35 participants climbed 800 feet of shale rock to reach the nine-hole par-3 course, which overlooks the air base, the polar ice cap and iceberg-filled North Star Bay. The final 75 feet up Mount Dundas featured a rope climb up shear rock face, making it necessary to move golf clubs and other equipment by helicopter. Mr. Lambert is a contractor with the 821st Security Forces Squadron.

Softball Standings

Competitive League

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to prepare and launch the spacecraft into orbit, and a few more months to check out the satellite before turning it over to a cadre of operators. The operators work from control centers around the world. Most military satellites often perform multiple functions and are designed to operate for about 10 years.

RoadRunner is pioneering the way to responsive space capabilities. Satellites will be planned, assembled, and launched in well under a month.

“This will revolutionize the way space systems support our deployed forces,” said Dr. Bob Pugh, technical advisor, Joint Warfighting Space Program Office. These single-purpose spacecraft will operate for a year or more and will only cost about 10 percent of the price tag for today’s surveillance satellites. In many cases, they will be controlled by joint forces in the field.

The RoadRunner spacecraft, known as TACSAT 2, represents a partnership between the Air Force Research Laboratory Space Vehicles Directorate, the DoD Space Test Program (Space and Missile Systems Center Detachment 12), the Naval Research Laboratory, the Army Space Program Office, Air Force Space Command, the Space Warfare Center and NASA to take the first steps in demonstrating the responsive space capability.

“Similar to the speedy characteristic of its namesake, this experimental satellite will have gone from concept to launch-ready within 18 months,” said Peck. Following lift off, the 900-pound satellite will be placed into circular orbit approximately 217 miles above the earth. Several critical experiments will be conducted, during its six to 12-month mission.

The Target Indicator Experiment, provided by the Navy, will involve a wideband sensor to collect radio, radar and handheld communication signals. In addition, the TIE will monitor the automated identification signal now required on large ocean-going vessels. A 20-inch optical telescope, built at the Air Force Research Laboratory, will be employed during the first orbit and throughout the mission to demonstrate low-cost, high-quality photography for use by in-theater forces.

Other planned experiments include the integrated global positioning system occultation receiver that will provide high-precision location information for the spacecraft; recycled solar array panels that produce 500 watts of power for the spacecraft; and a very sophisticated auto-pilot system.

“One challenge is to launch a space system with up-to-date technology. If it takes 10 years to launch (a traditional spacecraft), then the (satellite’s) technology is obsolete. With RoadRunner, the technology will be current,” the program manager said.

The Space Vehicles Directorate team played a prominent role in developing and integrating many of the experimental payloads comprising the satellite. “We want to give government personnel hands-on experience with space systems. It is more than just building a satellite, it is also operating one,” Mr. Peck said.

In addition to teaming with other U.S. government agencies for RoadRunner’s production, AFRL has partnered with several contractors for specific aspects of the spacecraft’s design and development. MicroSat Systems, Inc., constructed the satellite; Broad Reach Engineering supplied the command and data handling system, as well as the electrical power management system and the flight software; Space Exploration Technologies Corp., constructed the Falcon 1 launch vehicle; while Jackson and Tull provided the project’s integration and testing.

This ground-breaking, military responsive space concept demonstration serves as the forerunner for rapid satellite production, launch, and operation. “One day we will get to a point where a satellite launch is just another sortie,” Mr. Peck said.
Helmet wear: Rider’s choice? Not in my Air Force!

By Senior Master Sgt. Ty Foster
21st Space Wing Public Affairs

I propose the decision to remove a helmet is entirely selfish. “I don’t like wearing a helmet.” “It’s too hot.” “I disagree with the Air Force’s requirement for me to wear a helmet when I’m riding.” To all of which I say, “So what?”

It doesn’t matter what you think. Do you question the Air Force’s dress and appearance standards? Do you question your deployment training requirements? Do you question the rules and standards of performing your duties? No, probably not, because it’s not a matter of your personal choice. You joined the Air Force voluntarily and, in doing so, swore — or affirmed — to obey “the orders of the officers appointed over me, according to regulations and the Uniform Code of Military Justice.”

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Wearing a helmet is one of those orders according to Air Force Instruction 91-207, The U.S. Air Force Traffic Safety Program.

The AFI even goes so far as to stipulate the minimum requirements, “Helmets must meet, as a minimum, Department of Transportation standards and be properly worn and fastened. Helmets may also meet other standards such as the Snell Memorial Foundation or the American National Standards Institute. If stationed overseas, personnel may use host-nation certified, equivalent helmets.”

Ignorance is no excuse. Each of us — whether we ride or not — is responsible for knowing the standards. Peers play a huge role in compliance, which ultimately means they play a huge role in saving lives. Supervisors, your mission is at stake. Lose a person to a mishap for a few weeks or months and somebody has to pull up the slack. Lose them forever and you’re faced with answering that “What if I…?” question for the rest of your life. Commanders, the responsibility lies with you. General Jumper has issued marching orders for mentorship programs, safety training and compliance. You are the buck and it stops here. Ensure your people know the standards and hold your supervisors accountable for enforcing them. You could be saving a life in the process.

Riders, if you’re active duty, Air National Guard or Reserve — ride by the rules. It doesn’t matter whether you agree with them or not. To selfishly decide you don’t need to comply with Air Force safety requirements is to jeopardize not only your life, but the security of our nation.

So mount up, ride by example and don’t hang your helmet up until you’re done with your ride.
Change complete

Lieutenant Col. Carl Frushon, 595th Space Group acting commander, gives the 17th Test Squadron guidon to Lt. Col. Scott Hower, new 17th TS commander, signifying the change of command is complete. Colonel Hower took command from Lt. Col. Richard Boltz. The 17th TS falls under the 595th SG and the Space Warfare Center.
<table>
<thead>
<tr>
<th>Thursday, July 14</th>
<th>Friday, July 15</th>
<th>Monday, July 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFSPC Night</td>
<td>Education Fair</td>
<td>U.S. Senior Open Golf qualifier</td>
</tr>
<tr>
<td>Pikes Peak or Bust Rodeo</td>
<td>11 a.m. at the BX</td>
<td>7 a.m Silver Spruce Golf Course</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wednesday, July 20</th>
<th>July 24 - 30</th>
<th>Friday, August 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enlisted Club advisory council meeting</td>
<td>Red Devil wing deployment exercise at Fort Carson</td>
<td>Rage in the Range at Rampart Range</td>
</tr>
<tr>
<td>3 p.m. at the E-club</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Fee Structure

<table>
<thead>
<tr>
<th></th>
<th>9 Holes</th>
<th>18 Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Fees</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E1-E4 and Dependents</td>
<td>$8.00</td>
<td>$12.00</td>
</tr>
<tr>
<td>E5-03 and Dependents</td>
<td>$12.00</td>
<td>$18.00</td>
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<tr>
<td>O4-D10 and Dependents</td>
<td>$16.00</td>
<td>$20.00</td>
</tr>
<tr>
<td>NAF 1-2 and GS 1-5</td>
<td>$14.00</td>
<td>$20.00</td>
</tr>
<tr>
<td>NAF 3 &amp; up and GS 6 &amp; above</td>
<td>$18.00</td>
<td>$26.00</td>
</tr>
<tr>
<td>Civilian Guests</td>
<td>$14.00</td>
<td>$20.00</td>
</tr>
<tr>
<td>Dependents under 18</td>
<td>$7.00</td>
<td>$10.00</td>
</tr>
<tr>
<td>Cart Fees</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 Holes</td>
<td>$10.00</td>
<td>$18.00</td>
</tr>
<tr>
<td>18 Holes</td>
<td>$14.00</td>
<td>$22.00</td>
</tr>
<tr>
<td>Riding Cart (2 People)</td>
<td>$10.00</td>
<td>$18.00</td>
</tr>
<tr>
<td>Riding Cart (1 Person)</td>
<td>$8.00</td>
<td>$13.00</td>
</tr>
<tr>
<td>Pull Cart</td>
<td>$3.00</td>
<td>$5.00</td>
</tr>
<tr>
<td>Club Rental</td>
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<td></td>
</tr>
<tr>
<td>9 Holes</td>
<td>$4.00</td>
<td>$6.00</td>
</tr>
<tr>
<td>18 Holes</td>
<td>$6.00</td>
<td>$8.00</td>
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</table>

### Annual Membership Fees

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>E1-E4 and Dependents</td>
<td>$240.00</td>
<td>$480.00</td>
</tr>
<tr>
<td>E5-03 and Dependents</td>
<td>$420.00</td>
<td>$780.00</td>
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<tr>
<td>O4-D10 and Dependents</td>
<td>$480.00</td>
<td>$840.00</td>
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<tr>
<td>NAF 1-2 and GS 1-5</td>
<td>$240.00</td>
<td>$480.00</td>
</tr>
<tr>
<td>NAF 3 &amp; up and GS 6 &amp; above</td>
<td>$480.00</td>
<td>$960.00</td>
</tr>
<tr>
<td>Family Unlimited (more than 2 people)</td>
<td>$1,294.00</td>
<td></td>
</tr>
</tbody>
</table>

### Tee Time Policy

- **Tee times are available and are recommended for morning play.**
- Your military or member status determines when you can call in for tee times.
- **Active duty military stationed to the Peterson Complex, including Shriever and Norad, can call 72 hours in advance starting at 8:00 a.m.**
- **Members paying annual dues, active duty or retired military can call the Pro Shop 48 hours in advance starting at 8:00 a.m.**
- **All other active duty military, not stationed to the Peterson Complex can call 48 hours in advance starting at 8:30 a.m.**
- **Retired military, non-members, can call the Pro Shop for tee times 48 hours in advance starting at 9:00 a.m.**

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Retired Colonel George Stansell lines up a putt at the Silver Spruce Golf Course Friday, as Warren Moore, a retired major general, waits his turn.

The Silver Spruce Golf Course maintenance staff is responsible for keeping the entire 18-hole course in perfect playing condition.

Master Sgt. James Fritzler, 302 Airlift Wing in service recruiter, keeps an eye on his drive as it heads towards the green.

Master Sgt. Mark Cooling, 302 Airlift Wing Reserve line recruiter, sets his concentration on a making a birdie putt. Inset: Sergeant Cooling placed his tee shot six feet from the pin on the par 3 third hole.
Water World

Where the fun shines!

Water World had a small beginning 27 years ago — two water slides used by neighborhood residents. Water World is not a commercial venture, but part of a recreation district. Hyland Hills Park and Recreation District provides park services and recreation opportunities for its community.

Water World is also open to the public.

As Water World continues to grow in size, use, innovations and attractions, Water World uses revenue generated by the popular water park to subsidize other park and recreation facilities in its district.

Water World had the first water-themed fun house; the world’s first side-by-side simulated surfing waves, the world’s first enclosed animated family tube ride, and the highest and steepest speed slides outside of Florida.

“Screamin’ Mimi,” added in 1982, is still one of the most popular rides in the park. Riders take a 100-foot sled ride and drop into a large water pool.

“Thunder Bay” is a 1-million gallon wave pool with four-foot waves, added in 1984.

“Surf’s Up” is a 500,000-gallon wave pool.

See Water, Page 20

Calypso Cove, with a Caribbean theme, is a popular attraction at Water World. Waterfalls, slides and sprays add to the fun.

People enjoy a tube ride down the Lazy River in Water World’s River Country area.

ABOVE: Fun seekers wait for the Water World to reach them.
LEFT: Water World visitors prepare for the wave’s impact.

RIGHT: A bucket of water dumps on the FunH2Ouse play area, dousing everyone in the vicinity.

Story and photos by Nel Lampe
Mountaineer staff

Water

Thousands of gallons of H2O.

Millions of gallons of the wet stuff are in the nation’s largest water park.

Spread over 64 park-like acres, the 42 water attractions make this a first-class water park. In fact, it’s ranked in the top 10 great water parks in the United States by the Travel Channel.

And it’s just 75 miles away. It is, indeed, a Water World.

Water World isn’t an amusement park; there are no roller coasters. All its thrill rides involve water, and water is the focus — more than four million gallons of it, flowing, running, waving, catapulting, propelling and pouring.

July 14, 2005

Places to see in the Pikes Peak area.

July 14, 2005
Water World from Page 19

Water World’s “Lost River of the Pharaohs” was a unique ride in water park history when it was added in 1990. Lost River includes a 1,500-foot journey through an Egyptian-style pyramid. The ride features animated cobras, a mummy and a pharaoh.

Water World continued adding new attractions over the years. Coloradoans were first given the chance to surf in Colorado on Water World’s “The Wave.” Four six-foot pumps propel water over a curved fiberglass form while riders on boogie boards ride the wave. The wave travels at 20 to 30 mph uphill with 20,000 pounds of thrust, generating 22,000 gallons of water per minute. The Wave was added to Water World in 1996, at a cost of more than $1 million.

“Zoomerang” was added in 2000, a giant half-pipe water slide about 40-feet high. “Surfer’s Cove” includes a raft ride — “Tortuga Run,” corkscrew slides and a small pool. The “Voyage to the Center of the Earth” is one of the most complex water rides ever. It is totally enclosed and animated. Riders raft through a mysterious, underground river through a bat cave and pass through hot springs and enter a lost world where they are “attacked” by animated dinosaurs.

Water World’s “River Country” features white-water raft rides along the “Ragin’ Colorado” and the “Lazy River.” “Jet Stream” is a thrill-hill ride with a 230-foot tube for body sliding.

“Calypso Cove” combines a multi-level playground and a pool of water, set in a Caribbean fishing village theme. Waterfalls, water wheels, slides and sprays add to the fun.

The newest Water World ride just opened. “The Revolution” is one of only two such rides in the nation. More than 700 guests per hour ride a four-passenger cloverleaf style-tube through 241 feet of an enclosed flume into a 60-foot diameter open bowl and then are propelled into a three-revolution spin in the basin. The newest attraction cost more than $1 million.

Water World is designed as a family water park, featuring 11 attractions specifically designed for families or groups. In addition, Water World has an area specifically for youngsters. “Wally World” is a 9,000 square-foot water park in miniature. Near the entrance, the 9,000-square-foot park includes a waterfall, pools, fountains, slides and umbrellas.

Water World has 120 lifeguards on duty. There are plenty of food stands in the park, selling ice cream, funnel cakes, hamburgers, pizza and chicken, as well as soft drinks and bottled water.

You can bring your own picnic lunch, but no barbecue grills. Drinks brought into the park must be in factory sealed, non-glass bottles. Alcoholic beverages are not allowed.

Water World is open every day from 10 a.m. to 6 p.m., Memorial Day through Labor Day, weather permitting. Regular admission is $28.95 for anyone 48 inches tall and over. Children under 48 inches are admitted for $23.95. However, tickets for Water World may be purchased at Peterson’s Information, Tickets and Travel office for $20.95, which are for anyone ages 4 to 59. People over age 60 are admitted free to Water World and children ages 3 and under also get in free.

To reach Hyland Hills Water World, take Interstate 25 north, continuing north of downtown Denver about 10 miles. Take a left at West 84th Avenue Exit, continuing west to Pecos Street, then turning north on Pecos for four blocks. The water park is at 88th Avenue and Pecos Street. There’s a large, free parking lot.
**Pikes Peak or Bust Rodeo**

The annual Pikes Peak or Bust Rodeo is early this year – the last day of the event is Sunday. Air Force Space Command night is tonight. It’s not in the Colorado Springs World Arena as the past few years, but back in Norris-Penrose stadium on Rio Grande Street, between 8th and 21st streets on Colorado Springs’ west side. For tickets visit [www.coloradospringsrodeo.com](http://www.coloradospringsrodeo.com).

**Springabout**

Learn about the mineral springs of Manitou Springs by taking a “Springabout” guided walking tour 9:30 a.m. Tuesdays and Thursdays. For information, call 685-5089.

**Fiesta celebration**

The Royal Gorge Bridge and Park celebrates with a fiesta Saturday and Sunday. An eight-piece band, the Dynamix Band, performs traditional Mexican music. There’ll be dancing and other activities. Park admission is charged. For more information, visit [www.royalgorgebridge.com](http://www.royalgorgebridge.com).

**Colorado State Fair**

The concerts at the Colorado State Fair include Hoobastank Aug. 26; Collective Soul, Aug. 28; Montgomery Gentry, Aug. 30; Diamond Rio, Aug. 31; 38 Special, Sept. 1; Kenny Rogers, Sept. 1; Jo Dee Messina, Sept. 2; Sparx and Lorenzo Antonio with Mariachi Tenampa, Sept. 3; and Alice Cooper and Cheap Trick Sept. 5. Go online at [www.ticketmaster.com](http://www.ticketmaster.com) or call 520-9090 for tickets. Prices range from $13 to $33. The Colorado State Fair is in Pueblo at the fairgrounds.

**Pikes Peak International Raceway**

The NASCAR Busch Series Race will be at Pikes Peak International Raceway July 22 and 23. In addition to the race, country and western recording artist Tracy Lawrence will perform immediately following the race. Cowboy Crush will be opening for Mr. Lawrence. Tickets are available by calling the PPIR box office at 382-7223. Service members get tickets for half price.

**Valuable antiques**

Many people have antiques and family heirlooms that might be valuable, and here’s the chance to find out. The Colorado Springs Pioneers Museum holds its annual “Antique Valuation Day” July 30. Experts will help sort out the junk from the valuable, from 9 a.m. to 3 p.m. There’s a $10 charge for each item evaluated. Guests may bring up to three objects. The museum is at 215 S. Tejon St.

**Hornbek Homestead Days**

Florissant Fossil Beds, near the small town of Florissant on Highway 24 West, celebrates “Hornbek Homestead Days” from 10 a.m. to 3 p.m. July 30 and 31. Learn about life in the 1880s by watching craft demonstrations and enjoy lemonade and cookies. The homestead is on the grounds of the fossil beds, which requires $3 admission for anyone 16 or older.

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**Education Fair Announcement**

The Peterson AFB Education Partnership will present an Education Fair from 11 a.m. to 1 p.m. on Friday in front of the Peterson BX.

For information, call 834-7392
US Space Platforms

Answers on Page 25

ACROSS
1. Cry of discovery
2. Fancy vase
3. Indigenous people of Japan
4. Tropical American soft-wood tree
5. LGM-30, current version
6. Mil. zone in Korea
7. Pod filler
8. Women
9. __ V, USAF launch vehicle
10. USAF asset to detect missiles/space launches, NUDETs
11. Ireland, formerly
12. Mil. address
22. USAF asset to collect weather data for military ops
24. Bluster
26. South. state home to Maxwell AFB
27. Joint service secure, jam-resistant SATCOM system
28. USAF asset providing military, civilian navigation data
29. Pilot with 5+ kills
30. LG-118A __keeper (ICBM)
31. Congeals
33. Metric measurement
35. Periodic symbol Rn
36. Former CMSAF
40. Mil. pay statement
45. Oracle
46. Genre ___-fi
47. Mil. secure phone
48. 1944 Nobel Prize chemist Otto
53. Islamic holy site
55. USAF space booster ____VB
56. AFSPC radar system ___ PAWS
57. From scratch
59. Tribe
60. Zeus' spouse
61. Angry
63. Music genre
64. Canadian prov.
65. Small portion
66. Exist
68. Agassi org.
(Courtesy of Alaskan Command Public Affairs)

DOWN
1. Kwik-E-Mart owner on The Simpsons
2. d'oeuvres
3. Everything
4. Tropical American soft-wood tree
5. LGM-30, current version
6. Mil. zone in Korea
7. Pod filler
8. Women

16. Drink slowly
17. Fancy vase
18. Actress Taylor, informally
19. Everything
20. Expert
21. Bubbles
22. USAF asset to collect weather data for military ops
24. Bluster
26. South. state home to Maxwell AFB
27. Joint service secure, jam-resistant SATCOM system
28. USAF asset providing military, civilian navigation data
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(Courtesy of Alaskan Command Public Affairs)
Colorado Springs Area Chiefs’ Group

“Chief’s Choice Award”

**Name/Rank:** Airman 1st Class Richard Doughman

**Organization:** 21st Space Communications Squadron

**Duty title:** Communications-Computer Systems Controller

**Professional goals:** Complete my CDCs and return to my primary duties in Tech Control. Also, as a six-year enlistee I want to take advantage of the educational opportunities offered in the Air Force.

**What prompted this Chief’s Choice Award?**

Airman 1st Class Richard Doughman worked outside of his career field and supplemented the 21st Maintenance Group orderly room during a serve manning shortage and the pending retirement of the NCO in-charge.

Airman Doughman is by trade a 3C231, communications-computer systems controller, and after just arriving at Peterson he volunteered to help the orderly staff for a period of three months, until the new NCOIC transitioned in.

His customer service skills and his willingness to help out in the front office earned him kudos from customers and thanks from the Commander, 21st Maintenance Group. It is this type of “can do” attitude that sets Airman Doughman apart from his peers and epitomizes the phrase, “One Team, One Fight.”

**“Chief’s Choice Award”**

- May be presented to E-1 through E-6, all services, in the Colorado Springs area.
- Criteria: Award winners should exemplify the core values of their respective service.
- Each Colorado Springs Area Chief’s Group member in good standing (all services) may choose one award winner per year.
- No written nomination package required.
- Award winners will receive the distinct CCA coin and certificate from the CSACG.
- Awards will be presented by four members of the CSACG (if at all possible) to the winner at his/her work place.
- CCA committee will maintain coins/certificate paper stock and provide them to awarding CSACG Chiefs upon request.
WASHINGTON — United States Rep. Joel Hefley, encourages military personnel seeking U.S. citizenship to act now to complete their naturalization application.

Representative Hefley said military personnel qualified for naturalization with an application currently being processed may be able to complete the requirements in time to attend a naturalization ceremony planned for August in Colorado Springs.

“These young men and women are committed to defending our nation and they look forward to gaining citizenship in the country they fight for. I hope many people will complete their applications now so we can celebrate their citizenship in August,” said Rep. Hefley.

Representative Hefley and the U.S. Citizenship and Immigration Services plan to hold a naturalization ceremony for military personnel at 9:30 a.m., Aug. 30 at the Garden of the Gods Visitor Center. The event is open to the public.

“On July 3, 2002, our President signed an executive order making all non-citizen military members immediately eligible to file for naturalization,” said Mario Ortiz, district director, USCIS Denver. “At the Denver office, we take the extra step and prioritize these applications so that military members can be naturalized promptly. We know it means a lot to them and to their families. We’re grateful to them for all they do for our country.”

Any service member with an application for naturalization, that is currently being processed, is encouraged to contact their post or base representative as follows:

– Staff Sgt. Krista Lopez at Peterson AFB at 556-4680
– Sgt. Janice Collins at Fort Carson at 526-6481;
– Stephanie Caldwell at Buckley Air Force Base at 720-847-6991;

(Courtesy of Congressman Hefley’s office)

Hefley encourages military personnel to seek citizenship
Naturalization ceremony planned for Colorado Springs in August

Fitness, from Page 1

related to increased risk for metabolic syndrome, diabetes, hypertension and heart disease. Fat distribution is the critical indicator, as opposed to weight.”

For those who score marginal, between 70 and 74.9 points, the Air Force plans to correct the time to retest at 90 days; currently, retest for marginal category is 180 days. This will be consistent with the retest time for poor scores, those less than 70.

Changes to the AFI will also include adjustment for those at high-altitude installations. This applies to those at installations with an elevation of 5,000 feet or greater, Dr. Taylor said.

“We’ll use the formula for altitude calculations recommended by the National Collegiate Athletic Association,” he said.

The Air Force continues to look at ways to improve the fitness evaluation and remains committed to the Fit to Fight program, Dr. Taylor said, because the program has proven successful.

“Participation at fitness centers is up 30 percent now,” he said. “And if you go to the field, like in Iraq or Afghanistan, you will find a continued focus on health.”

The assessment is not the focus of the fitness program, but a tool to assess the commander’s fitness training program.

“I want to make very clear that my focus is not on passing a fitness test once a year,” said Gen. John Jumper, Air Force chief of staff, in his Oct. 17, 2003, Chief’s Sight Picture. “More important, we are changing the culture of the Air Force. This is about our preparedness to deploy and fight. It’s about warriors. It is about instilling an expectation that makes fitness a daily standard — an essential part of your service.”

Dr. Taylor said he hopes the changes to the AFI will be made by late August or early September.

Answers from Page 22

AHA BID PQA DEA
POI AIM ET SLI PRO
URN SUDS LIR ALL VER
MAAM NASA LILAC NE
PCS TSTES STETS HOES
HEL PR ESE CARAT ANY
MAO OCT CORE RUTH
ST DRE SLEP CHAM INCH
MAN CRO BAT LEA
AVE CAN IRA ART
DEW APT TEN NAP