Lyndon B. Johnson Space Center


JSC employees host Clear Creek ISD students during Career Day. Story on Page 4.

## Space News Roundup

## Blaha, Lucid agree cooperation key to success

Cosmonaut Researcher John
Blaha and former Researcher Shannon Lucid agree that the success of long-duration space flights depends not on equipment, but on the people involved with the mission. As Blaha and his crew mates continued living and working on the Russian Mir Space Station, both he and Lucid spoke about work on the station last week. Lucid summed up her record-setting stay with what she said was the take-home lesson.
"I think the most important thing

## Some workers may take off to vote

Tuesday is election day, and JSC employees whose work schedules conflict with their ability to vote have the options of excusing themselves for a reasonable time to visit the polls if their absence will not seriously interfere with operations.
Valerie Michaud of JSC's Human Resources Office said that as a general rule, where the polis are not open at least three hours before or after an employee's regular hours of work, that employees may have an excused absence that will permit them to report for work three hours after the polls open or leave work three hours before the polls close.
Because the polls in Texas open at 7 a.m. and close at 7 p.m., this policy means that employees who work from 8 a.m.-4:30 p.m. may be granted half an hour, and that those who work from 8:30 a.m. -5 p.m. may
be granted an hour.
Employees on irregular (first 40hour) tours of duty may be granted up to an hour excused absence for voting purposes as long as the leave Please see FEDERAL, Page 4
flight... it's not the hardware, it's not people you fly with," Lucid said. Blaha and his Mir 22 crew mates, Commander Valery Korzun and Flight Engineer Alexander "Sasha" Kaleri, agreed with Lucid that the people make a flight successful.
"It's beyond my expectations," Blaha said. "This is an incredible space station. I am very impressed with it, l'm very impressed with Valery and Sasha, the work they monauts."

Blana's commander
He (Blaha) is an excellent person, a good specialist, an outstanding astronaut, a wonderful investigator, so (we) have no problems with our crew, neither with the Russian or American sides," Korzun said.
The experiences and remarks of both the past and current crews of this joint effort in space demonstrate time and again how remarkable it is that fears of the past have given way to friendships and working relationships which are helping to advance
all mankind, they said. It dawned on all three of us at here we were, three people who grew up in totally different parts of the world, mortally afraid of each other," Lucid said. "Here we were sitting in an outpost in space together, working together and getting along just great. That was a remarkable revelation to the three of us Ne never could have planned that."
Blaha and Lucid also agreed that international cooperation should not end with the space stations, but
should continue into the future with the human exploration of Mars.
think that people should realize that long-duration space flight is possible," Lucid said. "It's a very positive experience. From a very personal standpoint... I would like people to think that human beings being in space for a long time is no impedi ment, like for a trip to Mars."
"Once a day I take some time to go on a dark pass to look at the planets," Blaha said. "Every time Please see LINENGER, Page 4

NASA Administrator Daniel S. Goldin is continuing to champion cultural diversity in the agency's work force, and recently issued a statement explaining NASA's policy prohibiting discrimination.
"I am personally committed to achieving and ensuring a workplace that is free of discriminatory treatment and harassment on the basis of race, sex, ethnicity, sexual orientation, color, religion, age, disability or any other nonmerit-based factor," Goldin said. "There is no place in our work environment for discriminatory actions of any kind. My personal commitment to diversity, equality and nondiscrimination is long-standing and nonnegotiable.
"All NASA managers and employees have a responsibility to uphold this policy. Each employee must be personally


Bo Atkinson and other members of the Ellington Field Fire Department give live demon strations on the best techniques for extinguishing fires during Safety and Total Health Day. The Fire Department also demonstrated how to extinguish jet fuel fires and other types of combustibles.

## Goldin reemphasizes non-discrimination policy

accountable for his or her performance in ensuring and promoting equal opportunity principles and in recognizing diversity as a source of strength for NASA. Moreover managers and employees alike must work together to ensure a workplace free from any form of discrimination or sexual harassment," Goldin continued.
"Both discrimination and harassment are violations of the law as well as the policies of this agency. If you feel you have been the victim of discrimination or harassment, there are a variety of remedies available for redress, based upon the specific facts of the particular incident. Contact your supervisor, local equal employment opportunity office, local union representative, or servicing personnel representative, or
office for assistance
"To assist with compliance, the personnel, equal employment opportunity, and legal staffs will continue to educate employees about NASA's nondiscrimination policy and inform them about the various procedures available to safeguard their rights," Goldin said.
"However, our commitment must go far beyond mere compliance with the law. am requesting the support of all managers in welcoming responsibility for nurturing and capitalizing on the very best that every employee has to give. I am also asking all employees to understand that a diverse workplace means a better NASA." For more information, contact JSC's Equal Opportunity Programs Office at x30600, or the Human Resource Office at x30600,
$\times 36251$.

## Managers still eyeing Nov. 8 launch

By James Hartsfield
Following a Monday flight readiness review, shuttle managers maintained the option of launching Columbia as early as Nov. 8 on STS-80, but deferred setting a firm date for one week to allow further analysis of a solid rocket motor nozzle erosion seen after STS-79.
Managers plan to reconvene Monday to discuss the results of the nozzle erosion problem's continuing analysis, and will decide at that time whether to proceed with a Nov. 8 launch.

During post-flight inspections of the STS-79 solid rockets technicians noted about 60 deeper-than-normal pits and accompanying troughs in the carbon composite insulation of the right rocket nozzle. The carbon composite was determined not to
 have worn enough to pose any sis of the pitting, however engineers began an analysis of the pitting and erosion. Preliminary findings indicated that even with the phenomena seen on STS-79 sufficient safety margins could exist, although the investigation remains inconclusive at present
Meanwhile, Kennedy Space Center techni
Meanwhile, Kennedy Space Center technicians con-
tinue to prepare Columbia at Launch Pad tinue to prepare Columbia at Launch Pad 39B, completing checks of the payload connections with inter face verification test for ORFEUS-SPAS and the Wake Shield Facility. Work also began to close out Columbia's engine compartment. The STS-80 crewCommander Ken Cockrell, Pilot Kent Rominger and Mission Specialists Tammy Jernigan, Tom Jones and Story Musgrave-will fly to KSC Monday if the "go" is given for a Nov. 8 liftoff, and countdown would begin a noon CST on Tuesday with a launch at 1:47 p.m.
Elsewhere, work continues in the Bay 3 shuttle hangar to prepare Atlantis for a launch in mid-January on STS-81, the fifth shuttle-Mir docking. Work this week included installation of the drag chute, functional testing of the docking system and tests of the two auxiliary power units. Early next week, work will begin to install Atlantis' three main engines. In the Vehicle Assembly Bldg., the two STS-81 solid rockets have been stacked and are ready for mating.

## Mars Surveyor launches Wednesday

NASA's Mars Global Surveyor-one of three missions to Mars that will begin exploring Earth's planetary neigh-bor-is scheduled for launch Wednesday.
The Surveyor, carrying six scientific instruments to study the atmosphere, surface and interior of Mars, is set to launch at 11:11 a.m. CST Wednesday. The launch marks the next step in Mars
exploration which, according to scientists, is exploration which, according to scientists, is to obtain an overview and to verify remote from the ground. Surveyor is designed to study the atmosphere, surface and interior systematically over a full Martian year.
Surveyor will arrive at Mars on Sept. 1997. By March 1998, the orbiter will be ready to begin data collection, compiling a systematic database as it surveys the Martian landscape and photographs unique features, such as the polar caps and Mars' network of sinuous, intertwining river channels.
Surveyor will be followed by two additional orbiters later this year. Russia's Mars '96, an orbiter carrying


12 instruments plus two small landers and two penetrators, is scheduled for launch Nov. 16, with NASA's Mars Pathfinder, carrying a lander and small rover robot, set to lift off Dec. 2.
Launch of the spacecraft begins a new initiative by the

United States to send pairs of spacecraft to the red planet every 26 months through 2005. NASA's new decade-long program of robotic exploration-known as the Mars Surveyor program-takes the next step in expanding scientists' knowledge of Mars. The unifying theme of the Mars program is the search for
water, which is a key requirement for life, a driver of climate and a vital resource. Eariy missions will focus partially on finding and understanding the past and present state of water on Mars. Mars Global Surveyor and Mars Pathfinder will be the forerunners in this quest, leading a series of missions that may culminate in the first few years of the next century with robotic return of a Martian soil sample to Earth, followed by eventual human exploration.


Safety concerns prompt traffic policy changes
JSC is revising its drivers' hand increased week, and, due to an accidents, the Avenue $B$ speed limit will be decreased to 35 mph today. The new Vehicle Code, effective today, realigns point assessment for most violations, updates mos lations to account for Texas traffic laws not previously covered.
According to Security, the Avenue B speed limit reduction is designed B speed limit reduction is designed therefore, the probability of safety to therefore, the probability of safety to
both the employees and the resident wildlife. Upon entering Gate 4 the wildlife. Upon entering Gate 4 the
Please see VEHICLE, Page

## Ticket Window

The following discount tickets are available for purchase in the Bldg. 11 Exchange Store
m 10 a.m. -2 p.m. Monday-Thursday and 9 a.m. -3 p.m. Friday. For more information, call from 10 a.m. -2 p.m.
$\times 35350$ or $\times 30990$.
EAA Christmas dinner/dance: The EAA Christmas dinner dance will be at 7:30 p.m Dec. 14 at the Giiruth. Tickets cost $\$ 25$ per person
EAA Spring Break Special to Rome: March 8-15, \$1,099 double occupancy. \$200 deposit required. Final payment due Jan. 8
and $\$ 5.25$ for children 5-12.
15 at the UHCL Bayou Auditorium. Cost is $\$ 10$ for adults and $\$ 5$ for students and seniors. EAA Belize Resort Trip: Available through Dec. 15. Cost is $\$ 472$ per person do EAA Caribbean Getaway Cruise to Puerto Rico Jan 3-13 \$1.198 dount
with airfare, $\$ \$ 99$ cruise only. Final payment due Nov 4
Sam Houston Race Park Track Pack: $\$ 10$ value pack for $\$ 5.25$, includes Club Level seating, program, tip sheet, admission, preferred parking and gift shop discount.
Space Center Houston: Adult $\$ 8.75$; children (4-11) $\$ 6.25$, annual membership $\$ 25.95$, family membership (up to four) $\$ 59.95$.
Movie discounts: General Cinema, $\$ 4.75$; AMC Theater, $\$ 4.50$; Sony Loew's Theater,
$\$$ Franklin Planner refills: now taking orders for 1997 calendars.
Sweetwater Pecans: $\$ 5.65$ per pound. Orders should be place by Nov. 8 for the Nov. 18 delivery, or Nov. 29 for the Dec. 5 delivery.
Stamps: Book of $20, \$ 6.40$.
Entertainment ' 97 books: Cost is $\$ 25$.
Metro tickets: Passes, books and single tickets available.

## Gilruth Center News

EAA badges: Dependents and spouses may apply for photo idenification badges from $7: 30$ a.m. 9 p.m. Monday-Friday; and 8 a.m. -4 p.m. Saturdays. Cost is $\$ 5$. Dependents must be between 16 and 23 years old.
Hatha Yoga: A stress relieving, stretching and breathing exercise routine to unite body mind and spirit.
Nutition intervention program: A six-week program to leam more about the role die and nutrition plays in health, including lectures, private consultations with a dietitian and mation call Tammie Shaw at $\times 32980$.
Defensive driving: One-day course is offered once a month. Pre-registration required. Cost is $\$ 25$.
Stamp club: Meets at 7 p.m. every second and fourth Monday in Rm. 216
Weight safety: Required course for employees wishing to use the weight room will be
offered from 8-9:30 p.m. Nov. 5 and Nov. 19. Pre-registration is required. Cost is $\$ 5$.
Exercise:Low-impact class meets from $5: 15-6: 15$ p.m. Mondays and Wednesdays.
$\$ 35$ per month. New classes begin the first of each month.
Aerobics: Classes meet every Monday, Tuesday and Thursday.
Ballroom dancing: Cost is $\$ 60$ per couple. For additional information call the Giiruth Center at x 33345
Country and Western dancing: Beginner class meets 7-8:30 p.m. Monday. Advance class meets $8: 30-10$ p.m. Monday. Cost is $\$ 20$ per couple.
Fitness program: Health Related Fitness Program includes a medical examination call Larry Wier at $\times 30301$.

JSC

## Today

Cafeteria menu: Special: meat sauce and spaghetti. Total Health: baked potato. Entrees: rainbow trout, liver and onions, beef cannel loni, ham steak, fried cod fish Reuben sandwich. Soup: seafood gumbo. Vegetables: steamed broccoli, breaded okra, cut corn, blackeyed peas.

## Monday

Cafeteria menu: Special: turkey and dressing. Total Health: herb flavored steamed pollock. Entrees: breaded veal cutlet, chicken fajitas, steamed pollock, beef, French dip sandwich. Soup: beef and barley. Vegetables: Brussels sprouts, mixed vegetables, egg plant casserole, winter blend vegetables.

## Tuesday

ASQC meets: The Bay Area Section of the American Society for Quality Control will meet at 5:15 p.m. Nov. 5 at the Ramada King's Inn, Ann Dorris will provide a tutorial on "What are the Basics of Software Quality," and Wali Alam will discuss "Raising the Bar: Implement ISO 9000 for Yourself." Dinner is $\$ 9$ Reservations are not required. For more information call Ray Swindle at 335-6948
Cafeteria menu: Special: pepper steak. Total Health: barbecue chicken. Entrees: baked lasagna, pork chop and fried rice, turkey a la king, baked chicken, fried cod tish, French dip sandwich. Soup: black bean and rice. Vegetables: breaded squash, steamed spinach, baby carrots, navy beans.

## Wednesday

Spaceland foastmasters meet:
meet at 7 a.m. Nov. 6 at the House
of Prayer Lutheran Church. For more information call Jeannette Kirinich $x 45752$

Spaceteam Toastmasters meet: The Spaceteam Toastmasters will meet at 11:30 a.m. Nov. 6 at United Space Alliance in the Civic Room at 600 Gemini. For more information call Pat Blackwell at 282-4302 or Ben Black 282-4166
AIAA luncheon: The American Institute of Aeronautics and Astronautics' History and Heritage committee will hold a brown bag luncheon at 11:30 a.m. Nov. 6 in Bldg. 4S, Rom. 3419. David Talent will discuss "A Partial History of Orbital Debris: Expectations for Growth from aSimple Particle-in-a-Box Model."
Astronomy seminar: The JSC Astronomy Seminar will meet at noon Nov. 6 in Bldg. 31, Rm. 129. An open discussion meeting is planned. For more
NMA class: The Texas Gulf Coast Council of National Management Association is hosting a 10-hour money management seminar from 6-9 p.m. Nov. 6 and 13 at 2400 NASA Road 1. Cost is $\$ 50$ per couple for members and $\$ 75$ per couple for nonmembers. For more information call Richard Hergert at 280-0444

Cafeteria menu: Special: Mexican dinner. Total Health: steamed pollock. Entrees: broccoli cheese quiche, spare ribs and sauerkraut steamed fish, Reuben sandwich Soup: seafood gumbo. Vegetables Spanish rice, pinto beans, peas broccoli.

## Thursday

Warning system test: The site wide Employee Warning System will undergo its monthly audio test at call Bob Gaffney at x34249.

SSQ meets: The Society for Software Quality Clear Lake Chapter will meet at 6 p.m. Nov. 7 at Ramada King's Inn, 1301 NASA Road 1. John Arnold, chief of Information Systems Directorate for JSC, will discuss "Application Development in a Performance Based Contract World." Cost is $\$ 10$ with a reservation. For more information call David Walker at 333-3703.

Cafeteria menu: Special: hamburger steak with onion gravy. Total Health: baked potato. Entrees: corned beef, cabbage and new potatoes, chicken and dumplings, meat ravioli, French dip sandwich. Soup: broccoli cheese and rice. Vegetables: navy beans, cabbage, cauliflower, green beans.

## Friday

Astronomers meet: The JSC Astronomical Society will meet at 7:30 p.m. Nov. 8 at the Lunar \& Planetary Institute 3600 Bay Area Blvd. For more information call Chuck Shaw at x35416.

Cafeteria menu: Special: tuna noodle casserole. Total Health: broiled chicken breast. Entrees: deviled crabs, broiled pollock, liver and onions, broiled chicken with peach half, Reuben sandwich. Soup: seafood gumbo. Vegetables: Italian green beans, cauliflower au gratin, steamed rice, vegetable sticks.
Nov. 12
ABWA meets: The American Business Women's Association, Clear Lake Area Chapter will hold a Christmas auction to benefit the chapter's scholarship fund at 5:30 p.m. Nov. 12 the Gilruth Center. Justice of the Peace Steve Phelps will serve as auctioneer. Cost is $\$ 11$ and includes dinner and auction. Reservations are required. For details and to make reservations call Rachael Jenkins at 480-7802.

## Swap Shop

Swap Shop ads are accepted from current and etired NASA civil senvice contractor employees. Each ad must be submit ted on a separate full-sized, revised JSC Form 1452. Deadline is 5 p.m. every Friday, two week before the desired date of publication. Ads may be run only once. Send ads to Roundup Swap box outside Rm 181 in Bldg 2 No phone or tax ads accepted.

## Property

Rent: Cloisters on Space Center, 2 -story condo 1-1.5, FPL, W/D, fans, resvd carport, patio, security gates, pool, free cable, $\$ 545 / \mathrm{mo}$. 212-1377 or 486-0513.
Sale: Friendswood Imperial Estates II, custom brick 2 story, $3250 \mathrm{sq} \mathrm{ft}, 4-3-3$, formal LR/DR
family room w/FPL game room. 6 acre wooded lot, reduced $\$ 175 \mathrm{~K}$. Owner, 482-1535.
Sale: Galveston historic home (1857), twice on Homes Tour, cover of "Houston Home and Gardens", 3 BDR, 2500 sq ft, 12 ceilings, 3 FPL's, \$145k. 409-762-4171
Sale/Lease: University Trace condo, 1-1-1CP, W/D, refrig, ceiling fans, new carpet/paint, $\$ 27 \mathrm{k}$
$\$ 450$ mo. $\times 46738$ or $554-2619$. Sale: League City, 3-2-2 split plan, no MUD tax, 1486 sq ftt, many upgrades, cov'd patio, Ig corner lot, $\$ 84 \mathrm{k}$. $486-6661$.
Sale: El Dorado Way condo, 2-2, W/D area,
security system, wet bar, cov'd parking, $\$ 42 \mathrm{k}$. 480-8381.
Rent: Baywind condo, 2-2, ceiling fans, W/D onn, $\$ 550$ mo. $\times 47326$ or $486-9673$.
Sale: Lake Livingston house, 1.5 story, $3-2-1$, w/sandy beach and bulkhd, includes most furn new paint inside/outside, carpet, reduced $\$ 69.5 \mathrm{k}$ 488-4487.
Sale: 40 prime acres, house, barn, 15 mi East
of Tyler, all amenities, $\$ 120 \mathrm{k}$. $488-5058$ of Tyler, all amenities, $\$ 120 \mathrm{k} .488-5058$. Rent: Condo in Winter Park, C0, near ski area
2-2, furnished, hot tub \& pool, sleeps 6.488 4453.

Rent: Lake Travis cabin, plaate boa dock, central air/heat, fully equipped,
wkly/\$120 dly. $474-4922$.

## Cars \& Trucks

Sale: '93 Prowler 5 th wheel trailer, $27-5 \mathrm{~N}$, loaded, ex cond, w/Reese hitch, $\$ 11.3 \mathrm{k}$ obo. 470 ${ }^{8} 396$.

## air, $\$ 6.5 \mathrm{k}$. Marion Pringle, $\times 30906$

ngine, good cond runs well, $\$ 5 \mathrm{k}$. Pat, $x 47979$ or engine, g9
' 88 Ford Crown Victoria LX, fully loaded, white xt, gray inter, velour seats, 70 k mi , ex cond, $\$ 4 \mathrm{k}$ Speier, 333-2263.
94 Honda Accord LX, ex cond, 4 cyl, white pwr, AM/FM/cass/CD, $\$ 15.5 \mathrm{k}$ obo. Gus, x 33425 or 286-3402.

89 Hyundai Excel GL 4 dr, $58 \mathrm{k} \mathrm{mi}, 4$ cyl, 5 spd $A / C$, ex cond, $\$ 2 \mathrm{R}$. Pete, $283-6813$ or $482-5573$.
89 Honda Accord, fully loaded, 4 dr , $\$ 5.5 \mathrm{k}$ '89 Honda Accord, fully loaded, $4 \mathrm{dr}, \$ 5.5 \mathrm{k}$.
409-925-7869. '88 Plymouth Voyager, all options, include ' 92 Ford Taurus, 9 k obo. $\mathbf{x} 47326$ or 486 -967 ' 82 Ford Taurus, ex cond, $\$ 8.4 \mathrm{k} .334-3066$ \& dependable, $\$ 1,295$ obo. Tom, 244-9775 ' 80 Pontiac Bonneville, 4 dr, diesel, good bod
engine, tires transmission needs work, $\$ 60$ engine, tires, transmission needs work, $\$ 605$ obo. Tom, 244-9775.
'91 Acura Legend, 4 dr, leather, sunroof, new tires, ext warranty, 69 kmi , $\$ 14.5$ obo. $\times 30126$.
.87 Mazda RX-7 Turbo '87 Mazda RX-7 Turbo, high performance exhaust and computer, $16^{*}$ racing wheels, sun
roof, all access, adult owned, $\$ 3.9 \mathrm{k}$ obo. Tom roof, all accer
$244-9775$.
' 88 Lincoln Town Car, 79 k mi, garaged kept, ex cond, \$5.9k. x 33187 or 488-5162.
' 72 Buick, 4 dr classic, very clean, new paint 110 kmi , have maintenance records, runs great, \$3,995. Jim, x38624 or 487-7132.
" 86 Pontiac Fiero, parting out entire car, everything except drive train, doors/hood/sunroof fenders,
8318.

## Boats \& Planes

Kayak, Perception Dancer XT, very good cond
$\$ 500$; sprayskirt, vg, $\$ 50$; helmet, vgc, $\$ 25$; Seda paddling PFD, vgc, \$40. Eddie, 333-7029.
' 90 Yamaha Wave Runners WR 500 's, $2 \mathrm{w} /$ double trailer, ex cond, $\$ 3.5 \mathrm{k}$ for pkg. 244-718
or 334-3961. Cat w/sails \& trailer, 18', \$900. 474-4742. '93 Crownline 19'6" bowrider, Merc V8, loaded custom cover, Shorelander cur
$\$ 13.9 \mathrm{k}$. Don, x 3039 or $333-1751$.
' 89 Bayliner w/trailer, $16^{\prime} 10^{\prime}$, 1/0, 2.3 L Cobra engine, $\$ 5 \mathrm{k}$. 334-3066.
Aluminum boat, 14 ' semi-v w/motor and trailer, many extras, rigged for fishing, $\$ 600$ obo Taniti ski boat 18.
Q100hr, runs like now $\mathbf{8 5}$ 175p Mercury engine $\$ 4.5 \mathrm{k}$ cash. 333-3992.
Searay Bowrider, 21', 260 Hp Mercruiser V8,
$I / O$, new ' 96 Alpha IIO, 35 wat/channel AM $/ F M$ '
cass w/CD changer controls, bimini top, full cass w/CD changer controls, bimini top, full cover, tandem galv tran
$\times 35191$ or $996-8318$.

## Cycles

'93 Yamaha YZ 250, \$2.3k. 244-7188 or 334'89 Yamaha WR $250, \$ 1$ k. $244-7188$ or $334-1$
3961 .

## Audio Visual \& Computers

Lapis Pro color service 24 x color graphics
card for Mac SE/30 $\$ 200 \cdot$ Cordura carnjing case card for Mac SE/30, $\$ 200$; Cordura carrying case
for Mac SE/30 $\$ 35,480-3424$ Audiovox car phone, model SP85, mount in car, \$25. 332-2039.

Pioneer KEH-M7500 car radio/cass deck detachable face, CD changer controls, many features, $\$ 150$; Pioneer CDX-M30 CD 6 disc chang-
er, FM modulator, $\$ 200$ or $\$ 300$ for both w/o modulator. Lisa, x40213 or 992-7302. 486 DX33, 8 Mb RAM, 270 Mb HD, $51 / 4+3.5$
FD's SVGA monitor $\$ 400$. FD's, SVGA monitor, \$400. Charles, x36422 Phonem.

## $\$ 10$. 47669 .

Texas Instruments Advanced Scientific T1-81 graphics calculator, over 300 functions, ex cond, $\$ 50$. Anne, x41044.
Telephone systems, 1 twelve line NEC system w/transceiver and 12 phone sets, $\$ 950 ; 2$ stand alone Panasonic phones, w/answering system cordless 16 station auto dialer, $\$ 60$. x 32920 or 610-9282.
Compaq computers, 1 Prosignia PC-server $486 / 6612 \mathrm{Mb}$ RAM, 240 Mb HD w/keybd, $\$ 900$; Deskpro/i $486,4 \mathrm{Mb}$ RAM/240Mb HD w/man interface cards and keyboard, $\$ 550$. x32920 or 610-9282.
$486 / 33,4 \mathrm{Mb}$ RAM, 170 Mb HD, SVGA w/1Mb video RAM, 14.4 fax/modem, 16 bit soundcard w/speakers,
$\$ 500 . \times 30712$ or $992-3849$. NEC Pentium, 60Mhz, 8 Mb RAM, CD ROM 60Mb HD, monitor, \$1.2k. 706-1541.
Mac Performa $466,16 \mathrm{Mb}$ HD, 12 Mb RAM, monitor, w/modem, $\$ 600$; Centris 650 CD , Apple Ergonomic keyboard, internal CD ROM, 16 Mb RAM, 230Mb HD, S
$\times 39012,992-5285$.
Panasonic phone $r$

## Musical Instruments

Bundy Flute, ex cond. Ann, 554-4248

## Pets \& Livestock

AKC yellow Lab puppies, $9 / 23$, available 10/27, will have shots and wormed, $\$ 300 . \times 48123$ or 409-925-7869.
Miniature P

## female. 337-3858.

Golden Lab pup, male w/papers, jumbo sleep
ing kennel, \$275. Debbie, x47590 or 332-1851.

## Household

Antique bathtub, white, $5^{\prime}, \$ 500$. Ann, 554 4248.
G.E. re
G.E. refrig, 18.7 cu ft , good cond, $\$ 300$; conemporary living room set w/center table, ex King size 188879 or 332-1991.
mirror, $\$ 125$. Bob, 244-4431.
Nine pe dining room set, table wieat, 0 chas 2 pc dinette w/glass front wood, $\$ 475$. Robert, $480-8381$
Formal sofa and loveseat, ex cond, $\$ 395$ obo Whirlpool, heavy duty washer/electric drye or 286-5816.

Beige Que center, oak $\$ 500 ; 0, \$ 200 ; 3 \mathrm{pc}$ entertainment $\$ 50$; Kenmo $\$ 500,6$ Samsonite folding chairs, Donna, x31206 or $538-1147$
Loveseat, ex cond, \$250; 2 upholstered round back chairs, nice, $\$ 100$ both; oriental style designer coffee table, ex heavy imported glass oval top ex cond, $\$ 350$; desk, $47.5^{\prime \prime} \times 28.5^{4}$, white w/brass handles and trim, solid wood, $\$ 150.488-5564$. Queen size bed set, mattress, box springs, frame, \$100; microwave oven, over-the-stove style, good magnetron but needs new "smart board", \$20. Ed, 481-4889


U
nder blue skies and pleasant temperatures, JSC employees spent a day last week learning about a variety of safety and total health issues.
Programs around the center ranged from fire and chemical hazranged from fire and chem
ards to safety for children ards to safety for children.
"Overall, the day went extremely well," said Larry Neu, chairman of the planning committee for Safety and Total Health Day. "The initial feedback I received is that managers were ready to lead their troops and had planned the day appropriately. The weather couldn't have been bet ter. The optional activities held outside were well attended and it was great to see the employees were able to go around and visit the displays and booths that most interested them."
Early survey results show that employees enjoyed the day, but more importantly learned a great deal about safety and how to maintain or improve their health.
"Overwhelmingly, folks liked Denny Fitch," said Stacey Menard of the planning committee. "Fitch's program on the importance of teamwork during an emergency really seemed
to set a good tone for the day." to set a good tone for the day."
Menard added that results show the majority of employees who returned a survey said their safety and health awareness had been increased and they liked the format and would weicome the same with different topics and activities next year.
"With these results, I think we accomplished what we set out to do, make employees aware of safety and health issues,' Menard said.
A majority of employees did spend their time outside From top to bottom, left to right:

1) JSC standown day ends with a fun run at the Gilruth Center. More than 1,000 workers participated in the 5 K walk or the 2.5 K run; 2) The Employee Assistance Program confidential information on all types of life's little ups and downs; 3) Representatives from the Houston Police Department show off the police helicopter and explain the extent of protection they provide to the community;
2) The breezeway between Bldg 4 North and South becomes one of the more popular attractions as experts give massages and ergonomic information
3) In the Bldg. 30 lobby, employ ees undergo eye tests to help pro mote the prevention of blindness
4) Employees test their blood sugar and learn how to eat with less sugar in their diets;
5) Coordinators give fun run par ticipants last minute instructions;8) Making three free throws in a row earns employees a free Safety and Total Health Day T-shirt; 9) Houston, Lighting and Power demonstrates with its arc truck how deadly electricity can be; and 10) Webster Bicycle provides employees with information on safe biking habits.



JSC Photos by Benny Benavides Jack Garman, Hector Gongora, Robert Markowitz, Mark Sowa


## Space News Roundup

## JSC Education volunteers inspire Clear Creek students

Through an on-going community
partnership with the Clear Creek partnership with the Clear Creek Independent School District, volunteers from JSC's Education Outreach Program "adopted" 12 students for a day and gave them a behind-the-scenes look at the unique space-related careers.
Dina Barclay, an employee from the EVA Systems Group, was surprised to find out how much the stur dents knew about the program.
"They knew about the KC-135, that CAPCOM is an astronaut and that Gene Kranz

Three more ISO 9000 sessions set

Three additional ISO 9000 awareness seminars have been scheduled for employ
All NASA and contractor employees are invited to attend one of the following sessions as their schedules permit. The sessions will be from 10-11 a.m. Monday, Tuesday and Nov. 12 in the Bldg. 2 Auditorium.
The seminars are designed to help employees understand what ISO 9000 is, why the center is implementing it and JSC's implementation timeline. There is no need to "sign-up" to attend a session. For more information about the seminars, call Glen Van Zandt at $\times 33069$.

## NASA skiers plan trip to Steamboat

This ski season, participants of NASA Ski Week VI will be heading for Steamboat Springs over the Martin Luther King holiday, Jan. 18-25.
Steamboat Springs is located North and West of Denver, Colo., and is an excellent ski area for both the novice and advance skier. The trip includes a direct flight from Houston to Hayden, which is 20
minutes outside of Steamboat, minutes outside nights lodging in the skiseven nights lodging in the ski-
in/ski-out hotel, a five day lift ticket, in/ski-out hotel, a five day lift ticket,
welcoming reception, banquet, welcoming reception, banquet,
fanny pack, name tag and trip brochure.
The cost varies from $\$ 1,064$ to $\$ 1,164$ per person, depending on available accommodations. Payment plans are available. Participants in this year's ski week include JSC, Kennedy, Marshall, Langely, Dryden and Goddard.
A pre-trip party will be given Nov. 9 to provide JSC participants a chance to meet others who will be going and receive additional information on the upcoming trip. There are still four spaces remaining until the early November timeframe, and a waiting list will be started after Those interested in going should Those interested in going should
contact Ron Davis at 482-5952.

Liz Kalla from the Biomedical Hardware Development and Engineering Office, who co-hosted two students with Barclay, arranged for the students to see Shannon Lucid "live" at the Transfer Debriefing.
"When we passed Shannon in the hall on the way to the debrief, I told her that we were bringing homed she didn't mind", Kalla said. "Shannon was very excited and said that it was great, and asked what school they were from." Mike Engle from the Payload Operations Branch also was impressed
willing to let students participate in their work activities. When Engle took the student he hosted, Randy Doss from Webster Intermediate School, to Mission Control to sit in on a simulation, the Payload Officer on console, Ben Pawlik, let him plug nto the loops and even "polled" him for a "Go for sim start."
"As we were leaving, Randy told me he'd really like to work here, but he knows it's going to take a lot of hard work to be able to learn everything he needs to know to get a job with NASA," Engle said. "I think that
kind of response is exactly what 'e're all trying to achieve.'
By hosting the students for a day, the volunteers helped JSC to mee its educational goal of capturing student interest in science, math and computer technology at an early age. Mark Mangieri, a self-pro claimed computer hacker from the Engineering Directorate's Flight Software Branch, hosted Webster Intermediate students Sang Nguyen and Eric Reed who indicated an interest in computers. Mangieri involved the students in demonstrations of his RGPS experiment and
some Internet sites that have
enabled him to do his job better. enabled him to do his job better
Mangieri was excited to give some Mangieri was excited to give some thing back to his community since almost 20 years ago.
The students were part of CCISD's Career Discovery Day Pro gram, a one-day program which permits eighth grade students from League City and Webster Intermed late Schools to shadow a profes sional in a career field of their choice. Employees interested in JSC's Education Outreach Program can call x32929 for information


Members of the Moscow Operations Support Team that supported Shannon Lucid's record-setting mission aboard Mir from the Mission Control Center in Korolev, near Moscow, display a Texas flag to be hung in MCC-Moscow. Members of the group include third row, from left, Bill Gerstenmaier, Chris Swaider, Tom Marshburn, Andrei Biryukov, Sasha Kopteva and Sergei Posanov. Second row, from left, are Bob Hoyt, Joe Neigut and Ed Bowers. Third row, from left, are Jeffery Cardenas, Ron Crawford, Michael Malyshev and Caasi Moore.

## Lucid lauds Moscow team's work

Living in a hotel far away from home for as long as three months often isn't fun, but it becomes even more of a hardship when the language and even the alphabet are decipherable only with intensive study. Add to that only six hours of daylight during a six-month-long winter, occasional knee-deep snow and temperatures that frequently fall below zero, and individuals can begin to understand that a stro sense of dedication is a requirement. roundings and culture shock, the job itself roundings and culture shock, the job itself is familiar to the JSC personnel who do it:
supporting the operations of a human supporting the operations of a human
spacecraft from Mission Control-even if it spacecraft fro
is in Moscow.
in Moscow.
Members
Members of the Mission Operations Support Team in Moscow that supported Shannon Lucid's record-setting mission aboard the Mir space station typically stayed in Russia for four to six weeks on each tour of duty. The majority of them worked more than one tour during Lucid's stay, and many are now involved with John Blaha's mission aboard Mir.
"The dedication of these people is what made the mission work. I was just the tip of the iceberg, and, without them, the flight would simply not have happened. I talked to them daily as both friends and coworkers, and it was always a high point of my day," Lucid said. "I can't tell you how grateful I am to them for their efforts and what a winning team they are."

Normally, seven team members worked in Moscow at a time, working in two shifts
to support the flight at least 16 hours each day. Gaylen Johnson, the lead flight surgeon for NASA 2, and Bill Gerstenmaier the lead operations director for the mission remained in Moscow for the majority of Lucid's time in orbit.
"Working in Moscow, team members are away from family and friends for an extended period of time, a sacrifice that exemplifies their dedication to the job. More than just being away from everyone, they are also in a foreign country, with a very different culture and different language, which can be difficult," Gerstenmaier said "Everyone did a great job, and the team work is what made this mission a success." The team recently commemorated the end of Lucid's successful flight by display ing a Texas flag donated by Texas State Sen. Buster Brown, which had flown ove the Texas State Capitol on April 12, 1996, the 15th anniversary of STS-1 and also Cosmonauts' Day in Russia.
Team members not pictured in the photo included Gaylen Johnson, Pat McGinnis, Tony Sang, Kyle Herring, Ray Castillo, Mike Braukas, Kari Fluegel, Ed Campion, Dave Faram, Jack Duce, Sheddrick Bradford, Susan Freeman, Russ Hartlieb Nikail Mehta, Tommy Thompson, Danny Irvin, Tim Mcbride, Anita Kilgore, Tonya Sivils, Erik Shaw, Mart Carr, Kristen Maidlow and James Hartsfield.

## Federal employees may participate in elections

## (Continued from Page 1)

 does not put them in overtime. Employees on Variable Day Schedule are for voting because the flexibility of this work schedule.Excused absence for voting purposes may be used only at the beginning or ending of the daily work schedule. Where an employee prefers to vote at some other time during the workday, he or she may be granted annual leave or leave without pay for that purpose.
Questions regarding absence for voting should be addressed to a Human Resources Representative or Valerie Michaud at x31057.

JSC employees also are remind-
ed that the guidelines for federal employee participation in political activities were relaxed in 1994, although Senior Executive Service employees still must abide by the stricter rules.

Under the Hatch Act amendments of 1994, federal employees may: be candidates for public office in nonpartisan election, register to vote as they choose; express opinions about candidates and issues, contribute money to political organizations, attend political fund-raising functions, attend and be active at political rallies, join and serve as officers in a political party, sign nominating petitions, campaign for or against referendum questions, campaign for
or against candidates, make campaign speeche
paign literature

Federal employees may not: use their official authority or influence to interfere with an election, solicit, accept or receive political contributions unless both individuals are members of the same federal labor or employee organization, knowingly solicit or discourage the political activity of any person who has business before the agency, engage in political activity while on duty, in any government office, while wearing an official uniform, or while using a government vehicle, be candidates for
public office in partisan elections, or public office in partisan elections, or wear political buttons on duty.

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Editor...
Editor .............
Managing Edito
Kelly Humphries
Managing Editor
Associate Editor
Karen Schmidt Natasha Calder

## Vehicle handbook available online

(Continued from Page 1) speed limit on Avenue B from Firs Street to Link One will be 25 miles Street the limit will be 35 with a reduction to 25 approaching Gate 3 . Hard copies of the vehicte hand book will be available at the Bldg. 1 book will be available at the Bldg. 1 reception window, the Bldg. 30 and
Bldg. 110 badge offices and at the Bldg. 110 badge offices and at the Security Branch Office in Bldg. 45, Rm. 211. The handbook also will be available online at http:/
gov/cgi-bin/JSC_COD
Employees are expected review and comply with these new traffic safety policies to ensure continued personnel and local wildlife safety.

