Houston, Texas



JSC employees volunteer to improve the safety factor at the Child Care Center. Story on Page 3.



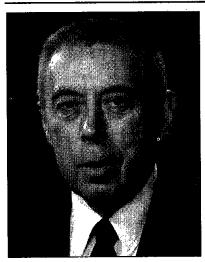
Checking it out

STS-82 astronauts check out hardware that will be used to berth the Hubble Space Telescope. Photo on Page 4.

Space News Roundup

Kid safe

Vol. 36



George Abbey

Abbey to receive space trophy

JSC Director George Abbey will receive the prestigious National Space Trophy on March 6 during a special banquet at Space Center Houston. Astronaut John Young also will be honored for his lifetime dedication to the space program.

The National Space Trophy is given annually by the Rotary National Award for Space Achievement Foundation to one individual for outstanding leadership and personal commitment to space exploration. Nominations are submitted by leaders of the aerospace industry, government agencies, professional organizations and the media. A ballot of finalists is voted on by the Foundation's national board of advisers with confidential votes tabulated by an independent accounting firm.

Nominating Abbey for this year's honor, Robert Minor, president of the Space Systems Division of Boeing North America, cited "his exceptional vision, his superior leadership qualities, his unique and effective problem solving techniques and his broad understanding of technical management. His dedication and capabilities are truly

extraordinary and his major contributions to space exploration and the furtherance of the space program are legendary."

JSC Associate Director, Technical, John Young will be honored with the Corona Award.

The Corona Award recognizes a distinguished lifetime of achievement in the exploration of space and is made only when the Foundation board members feel that exceptional merit demands the special conferment. The Corona Award has been given once before

Please see MAX-Q, Page 4



John Young

Blaha calls Mir dockings turning point

Astronaut John Blaha is back after four months on orbit, calling the cooperative international program of shuttle-Mir dockings and residency "a turning point in world history."

Blaha arrived at Ellington Field on Jan. 23, along with all of his STS-81 crew mates except Jerry Linenger, who is now taking his place on Mir.

Commander Mike Baker, Pilot Brent Jett and Mission Specialists Marsha Ivins, John Grunsfeld and Jeff Wisoff joined Blaha in praising



ATLANTIS

the integrated efforts required to make their missions successful.

"The that five, 10, 15 years ago we had two super powers nuclear had missiles aimed at each other

and now we are cooperating the way we are, is absolutely incredible," Blaha said. "It is a turning point in world history and this Mir-shuttle program is an example of how you can work together with former enemies and do something fantastic. I think that is very healthy for the entire planet Earth.

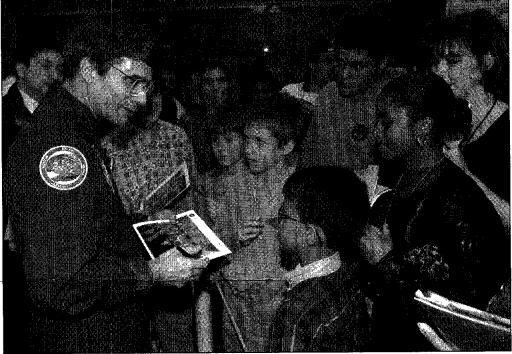
JSC Acting Deputy Director Brian Duffy welcomed the astronauts home on behalf of JSC Director George Abbey, who sent his congratulations to the STS-81 crew and team "that went up and made the docking, bringing two spacecraft together and making it look easy."

Grunsfeld said that while it may have looked easy, the mission required a lot of dedication and effort. That it looked easy was a tribute to everyone at JSC, NASA and in Russia who worked hard to learn the lessons that will be extremely important to future cooperation.

This mission included all the excitement of space shuttle missions but also all the romance of visiting a foreign country, and Mir is very much a foreign country in space," he said. "It was wonderful to share those experiences with the cosmonauts who have the same goals and ideals that we do of space exploration. I think all of us have taken away from this mission additional excitement as a result."

Commander Mike Baker called the flight "absolutely fabulous." and gave credit to "the world's greatest crew, the world's best training team, flight controllers both here and in Moscow and a fabulous Mir crew."

Jett applauded his family and friends who supported him through Please see CREW, Page 4



Astronaut John Blaha greets friends and family members who welcomed him home last week after his four-month stay on the Russian Mir Space Station. The STS-81 crew docked Atlantis to the Russian station, picked up Blaha and left Astronaut Jerry Linenger. Blaha returned to Earth with the STS-81 crew Jan. 12 after spending 128 days in space, 118 on Mir. During docked operations the cosmonauts and astronauts transferred more than 6,000 pounds of water, supplies and science equipment to the Russian station. Linenger will remain on Mir until May when replacement Mike Foale will lift off on STS-84 for his tour of duty on the Russian outpost.

Bridges becomes KSC's new director

Former shuttle astronaut and retired Air Force Mai. Gen. Roy Bridges, will be the new director of the Kennedy Space Center, effective March 2.

Bridges will succeed Jay Honeycutt, who announced his retirement last October.

"I am thrilled Roy is returning to the NASA team," NASA Administrator Daniel Goldin said. "Roy has a unique and very accomplished background that will be a tremendous asset in his new job as KSC director. He is the right person to take KSC into the next century."

As director, Bridges will be responsible for managing NASA's only site for processing and launch of the space shuttle vehicle at a rate of seven to eight flights per year; processing of the payloads flown on both the shuttle and expendable launch vehicles; and overseeing of expendable launches carrying NASA payloads. He will manage a team of about 2,000 NASA civil servants and about

14.000 contractors. As a NASA astronaut, Bridges served as pilot on STS-51F in 1985. The Spacelab 2 mission was a multidisciplinary mission with 13 investigations in seven scientific disciplines, including solar physics, atmospheric physics, plasma physics, high energy astrophysics, infrared astronomy, technology research and life sciences.

Discovery set to lift off on STS-82

By Ed Campion

The second servicing mission to the Hubble Space Telescope remains on track for a mid-February lift off from Launch Pad 39A at Kennedy Space Center.

NASA managers were scheduled to meet yesterday at KSC to conduct the formal readiness review of the mission and set the official launch date. The current STS-82 target launch date is Feb. 11 at 2:56

Major processing activities at KSC this past week included the installation of the payload into

Discovery's cargo bay. Because of the extremely clean environment needed for the HST payloads, the installation activity was performed in an exceptionally deliberate and precise manner. Integration and verification tests of the payload are planned for this coming weekend. The astronauts were at KSC this week conducting a dress rehersal of the launch countdown.



Assuming a launch on Feb.

11, the start of the official countdown will begin at 3 a.m. CST on Feb. 8 followed by the STS-82 crew's arrival at KSC around 7 a.m. CST.

Two days after launch, Commander Ken Bowersox and Pilot Scott Horowitz will guide Discovery to a rendezvous with the orbiting astronomical observatory. Mission Specialist Steve Hawley will then use the shuttle's mechanical arm to retrieve the telescope and lower it onto a work platform in the cargo bay. The next day will mark the first of four space walks to be conducted on four successive days. Astronauts Mark Lee, Greg Harbaugh, Joe Tanner and Steve Smith, working in pairs, will remove and replace various HST components.

Discovery's mission duration is planned for 9 days, 22 hours, 47 minutes. The second shuttle mission of the year will conclude with a landing at KSC on Feb. 21 at about 1:43 a.m. CST.

Linenger settles in, begins experiments

Astronaut Jerry Linenger began working with experiments this week as he settled in with Russian crewmates, Commander Valery Korzun and Flight Engineer Alexander Kaleri.

This week's activities included initial activation of the Biotechnology System, designed to support longduration experiments in a low-gravity environment. Experiments to be conducted in the BTS are involved with tissue culture, protein crystal growth and fundamental biotechnology research. Facility checkout of the BTS will ensure that risk-free experiments can be conducted on

the International Space Station. The facility consists of six modules designed for easy changeout to accommodate changing science requirements and advances made during the several year planned period of its operation.

After Atlantis undocked from Mir, the cosmonauts took a day off to relax and unpack some of the material transferred from the shuttle. Linenger told flight controllers that unpacking his many boxes of gear was like opening Christmas presents.

Linenger created quarters in the Spektr module

and by Wednesday of the first week, the triathlete began his daily exercise regimen, which includes two hours of running on a treadmill and riding on a stationary bicycle.

Linenger began work with some of the life sciences and medical investigations he will conduct during his stay on the orbiting facility. He also replaced radiation dosimeters that went back to Earth on Atlantis with new instruments that will continue measurements of radiation aboard Mir.

Linenger and some of his former STS-81 crewmates took samples from the shuttle and will be compared with other samples taken periodically through the mission.

The harvest of wheat from the Greenhouse experiment occurred Jan. 17 during the docked phase of operations. The equipment was dismantled and stowed. Another crop will be grown after Linenger completes his tour.

Two instruments—the Mir Structural Dynamics Experiment and the Space Accelerations Measurement System—took measurements during the docking mission to help flight engineers better understand the dynamics of the 400,000-ton spacecraft created by the docking of the shuttle and Mir.



Mir's air, water and physical surfaces to check for microbes. The samples were returned to Earth on

Ticket Window

The following discount tickets are available for purchase in the Bldg. 11 Exchange Store from 10 a.m.-2 p.m. Monday-Thursday and 9 a.m.-3 p.m. Friday. For more information, call x35350 or x30990.

Rodeo Tickets: Houston Livestock Show and Rodeo Tickets cost \$10 limited to 4 per badged employee

Carnival tickets: Houston Livestock Show and Rodeo carnival tickets. Cost is \$10. Moody Gardens: Tickets cost \$9.50 for 2 of 3 events.

Loving Feelings Concert: Johnny Rivers 8 p.m. Feb. 8 at the Arena Theater. Tickets

Space Center Houston: Adult \$8.95; children (4-11) \$6.40, 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,

JSC logo shirts: Polo style cost \$23. T-shirt cost \$10.

Franklin Planner refills: now taking orders for 1997 calendars.

Sweetwater pecans: \$5.65 per pound.

Stamps: Book of 20, \$6,40.

Entertainment '97 books: Cost is \$25

Gold C Books: Cost is \$10.

"Orbit": The book "Orbit" by Jay Apt, Mike Helfert and Justin Wilkinson is on sale for \$28. Metro tickets: Passes, books and single tickets available.

Gilruth Center News

Sign up policy: All classes and athletic activities are first come, first served. Sign up in person at the Gilruth Center and show a yellow EAA badge. Classes tend to fill up two weeks in advance. Payment must be made in full, in exact change or by check, at the time

of registration. No registration will be taken by telephone. For more information, call x30304. EAA badges: Required for use of the Gilruth Center. Dependents and spouses may apply for photo identification badges from 7:30 a.m.-9 p.m. Monday-Friday; and 9 a.m.-1 p.m. Saturdays. Cost is \$10. 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. Classes meet from 5:30-6:30 p.m. Thursdays. Cost is \$40 for eight weeks.

Nutrition intervention program: A six-week program to learn more about the role diet and nutrition play in health, including lectures, private consultations with a dietitian and blood analysis. Program is open to all employees, contractors and spouses. For more information call Tammie Shaw at x32980.

Defensive driving: One-day course is offered once a month. Pre-registration required.

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. Feb. 11. Pre-registration is required. Cost is \$5.

Exercise: Low-impact class meets from 5:15-6:15 p.m. Mondays and Wednesdays. Cost is \$24 for six weeks.

Alkido: Martial arts class meets from 5:15-6:15 p.m. Tuesday and Wednesday. Cost is \$35 per month. New classes begin the first of each month.

Aerobics: Classes meet from 5:15-6:15 p.m. Tuesdays and Thursdays. Cost is \$32 for

Ballroom dancing: Beginner classes meet from 7-8:15 p.m. Thursdays. Intermediate and advanced classes meet from 8:15-9:30 p.m. Cost is \$60 per couple.

Country and Western dancing: Beginner class meets 7-8:30 p.m. Monday. Advanced class meets 8:30-10 p.m. Monday. Cost is \$20 per couple.

Fitness program: Health Related Fitness Program includes a medical examination screening and a 12-week individually prescribed exercise program. For more information call Larry Wier at x30301.

Dates & Data

Today

JSC

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.

Monday

Cafeteria menu: Special: Italian cutlet. Total Health: herb flavored steamed pollock. Entrees: barbecue beef spare ribs, steamed pollock, baked chicken. French dip sandwich. Soup: black bean and rice. Vegetables: California mix, okra and tomatoes, vegetable sticks, ranch style beans.

Tuesday

Cafetería menu: Special: spaghetti with meatballs. Total Health: baked potato. Entrees: stir fry beef, liver and onions, beef cannelloni. ham steak French dip sandwich. Soup: split pea. Vegetables: winter blend mix, seasoned cabbage, breaded squash, lima beans.

Wednesday

Spaceland Toastmasters meet: The Spaceland Toastmasters will meet at 7 a.m. Feb. 5 at the House of Prayer Lutheran Church. For more information call Jeannette Kirinich at x45752.

Spaceteam Toastmasters meet: The Spaceteam Toastmasters will meet at 11:30 a.m. Feb. 5 at United Space Alliance, 600 Gemini. For more information call Pat Blackwell at 282-4302 or Ben Black at 282-

Astronomy seminar: The JSC Astronomy Seminar will be held at noon Feb. 5 in Bldg. 31 Rm. 129. An open discussion meeting is planned. For more information call Al Jackson at x35037.

Cafeteria menu: Special: smoked barbecue link. Total Health: roast porkloin. Entrees: cheese enchiladas, roast pork and dressing, baked chicken, steamed pollock, Reuben sandwich. Soup: seafood gumbo. Vegetables: Italian green beans, Spanish rice, turnip greens, peas and carrots.

Thursday

Warning system test: The sitewide Employee Warning System will undergo its monthly audio test at noon Feb. 6. For more information call Bob Gaffney at x34249.

Cafeteria menu: Special: chicken fried steak. Total Health: roast beef with gravy. Entrees: steamed pollock, lasagna with meat, steamed pollock, catfish, French dip sandwich. Soup: cream of turkey. Vegetables: whole green beans, butter squash, cut corn, black-eyed peas.

Crew briefing: The STS-81 astronauts will discuss their mission at 1:30 p.m. Feb. 7 in Teague Auditorium. For more information call Helen Harris at x38413.

Cafeteria menu: Special: fried chicken. Total Health: vegetable lasagna. Entrees: pollock hollandaise, beef stroganoff, vegetable lasagna. Vegetables: steamed broccoli, carrots vichy, Italian zucchini, breaded okra.

Feb. 10

Running club meets: The Bay Area Running Club will meet at 7:30 p.m. at the South Shore Harbour Fitness Center. For more information call Mark Anderson at x30909.

Feb. 11

NPMA meets: The National Property Management Association will meet at 5 p.m. Feb. 11 at Robinette and Doyle Caterers, 216 Kirby in Seabrook. Social and dinner cost \$14. For more information call Sina Hawsey at x36582.

Feb. 12

MAES meets: The Society of Mexican American Engineers and Scientists will meet at 11:30 p.m. Feb. 12 in the Bldg. 3 cafeteria. For more information call G.D. Valle at x38835.

PSI meets: The Clear Lake/NASA Chapter of Professional Secretaries International will meet at 5:30 p.m. Feb. 12 at the Holiday Inn, NASA Road 1. Dinner costs \$12. For details call Elaine Kemp at x30556.

Feb. 13

SSQ meets: The Houston Clear Lake Chapter of the Society for Software Quality will meet at 6 p.m. Feb. 13 at the Ramada King's Inn on NASA Road 1. Lee Norbraten, director of the JSC ISO 9000 Office, will discuss JSC's ISO 9000 certification effort. Dinner cost \$12 with advance reservations. For additional information and reservations call Renne Peterson at 335-2034.

Airplane club meets: The Radio Control Airplane Club will meet at 7:30 p.m. Feb. 13 at Clear Lake Park Community Bldg. For details call Bill Langdoc at x35970.

Feb. 14

Astronomers meet: The JSC Astronomical Society will meet at 7:30 p.m. Feb. 14 at the Lunar and Planetary Institute, 3600 Bay Area Blvd. For more information call Chuck Shaw at x35416.

Feb. 15

NTA meets: The National Technical Association will meet at 10 a.m. Feb. 15 at Texas Southern University School of Technology, Rm. 316. For more information call Pam Denkins at x35272.

JSC

Swap Shop

Swap Shop ads are accepted from current and retired NASA civil service employees and on-site contractor employees. Each ad must be submitted on a separate full-sized, revised JSC Form 1452. Deadline is 5 p.m. every Friday, two weeks before the desired date of publication. Ads may be run only once. Send ads to Roundup Swap Shop, Code AP2, or deliver them to the deposite box outside Rm. 181 in Bldg. 2. No phone or fax ads accepted.

Property

Sale: Shoreacres, 4-2-2, 1600 sq ft, some repairs in progress. 488-5501.

Sale/Rent: University Trace Condo, 1 BR plus study, W/D, cov parking, \$33k or \$525/mo. x48621 or 480-2417.

Sale: Nassau Bay Queen's Court Townhouse, 3-2.5-2, \$87.5k. 333-4286.

Sale: Friendswood Heritage Park, 3-2-2, ex cond, security system, ceramic tiles \$81.9k 996-0152 Sale/Rent: Boat slip on Clear Lake w/roof and motorized boat hoist for power boats. \$7.5k or

\$125/mo. 474-4922 Rent: Arkansas cottage in the woods overlooking Blue Mountain Lake and Mount Magazine, fully furnished, FPL, antiques, \$50/day or \$250/week, Corcoran, x47806 or 334-7531.

Rent: Galveston condo, furnished, sleeps 6, wknd/wkly/dly rates. Magdi Yassa, 333-4760 or

Cars & Trucks

'87 Mazda RX-7 Turbo, grey, pwr sun roof, AM/ FM/cass, good cond, new paint, tinted windows, alarm sys, \$3,750 obo. x39060 or 281-337-2777.

'85 Audi 4000s, 4 dr, auto, silver, blue velour interior, A/C, AM/FM/cass, 60k mi, well maintained, \$3.5k obo. 244-2444 or 488-4382.

'95 Ford Aspire, 2 dr, 4 cyl, 5 spd, A/C, fual air bags, 13k mi, \$5.3k. Oscar, x45170 or 996-9353. '91 Dodge Dynasty, 33k mi, garaged, \$7.1k.

'92 Honda Accord LX, metalic red, gray int, 4 dr, auto, AM/FM/cass, ex cond, 111k mi, one owner, \$7.8k, 334-2533.

'89 Toyota Tercel, auto, 2 dr, low mi, ex cond, \$3.1k obo. Francisco, x34564 or 281-286-8723.

'86 Taurus, loaded, runs very good, \$1.5k obo. Richard, 281-538-1854.

'93 Saturn SL2, loaded, 16-valve DOHC, blueblack w/gray interior, good cond, 50k mi \$9.5k. 283-5514 or 286-6941. '89 Ford Aerostar, Eddie Bauer model, clean,

loaded, trailer hitch, one owner, garaged, \$4.2k. x30912 or 481-2693 '92 Nissan Maxima SE, dark gray, 64k mi. leather, CD player, sunroof, pwr locks/windows,

cruise control, ex cond, \$13.5k. 326-6228. '91 Plymouth Grand Voyager LE, all pwr, very clean, ex cond, \$6,350. Larry, x31794 or 481-

9058. '84 VW Scirocco, bronze, good cond, 5 spd, 104k mi, \$1.2k. 280-0415. '99 Chevy Astro Van, gray, cold air, ex cond,

receipts, \$4k obo. Tom, 281-996-5835.

x33571 or 337-5583.

'93 Chevy Camaro Z-28, 6 spd, ex cond, warranty, 47k mi, CD, black, pwr locks/seat/windows, cruise, custom wheels, \$13.3k. x34544 or 326-

'81 Chevrolet Silverado, \$3k obo. James,

'90 Ford Aerostar extended version, 4.0 L, 68k mi, auto, AM/FM/cass, A/C, P/S, P/B, P/W, good mechanical cond, \$7.4k obo. x34603.

'88 Buick Regal, 84k mi, maroon color, good cond. \$5.2k. 332-1738.

'84 Mobile Trailer, 23', sleeps 6+, Chevy 350,

queen, dbl and bunk beds, \$7k. 482-3681.

Boats & Planes

Outboard engine, 8.0 Hp Evinrude long shaft, \$450. Robert, 334-1677 or 717-8231.

Aluminum prop from 21 "Mercruiser I/O 135 hp engine, \$50; tire for boat trailer w/rim, unused, \$50. Robert, x37739.

92 XR-100R Honda dirt bike, good cond, garaged, 4 stroke, dependable and quiet, \$1.2k. Bob. x49623 or 992-0938.

Audiovisual & Computers

Mac Powerbook 180C, active matrix color note-book computer, 8 MB RAM, 160 MB HD, new battery, fpu, ac adapter, charger, carrying case, 7W, \$725; Apple w/built-in speakers, .28 dot pitch, works w/PR or Mac, \$199. 244-2444 or 488-4382.

Epson Laser II printer, \$175. Andy Lim, x31596

or 488-5534 486-DX-50, 16 MB RAM, 420 MB HD, 3.5" FD, 14" monitor, kybd, mouse, \$450; 386-DX-40, 4 MB RAM, 170 MB HD, 3.5 "FD, 14" monitor, kybd, mouse, \$325. Charles, x36422 or 326-5073.

HP Deskwriter, \$75; Luxman T-2 tuner, \$50; Luxman K-12 tape deck, \$75. Charlie, x32455 or 480-4046.

Pioneer KEH-M7500 car radio/cassette deck, detachable face, CD changer controls, \$125 obo. Lisa, x40213 or 992-7302

Oscilloscope, ac/dc, triggered, ex cond, portable, manual and probe, \$100. Tom, 996-5835.

Software, Filemaker Pro, \$20; Triple Play plus Spanish learning program, \$20. x36185 or 286-Toshiba M-4220 VCR, manual and accessories, 4

head HQ VHS recorder, \$75. Tom Clark, 244-9842.

Handsome 6 mo old black/white male cat, very friendly, good w/children, x45716 or 992-8315. Female pit bull, 8 mo. black, 991-0821.

Young, black, shorthaired, declawed male cat. gentle, free. Gloria, 283-5831 or 486-0454. Mini Rex rabbits, \$10 ea. 482-0874.

Household

Pets & Livestock

Electric washer, working, \$75; dining table, \$100, 482-0874.

Antique blond ornate mirror, 34 w x 24 h w/ shelves, \$100, 480-3424

Child's car bed w/mattress, \$125; designer oriental coffee rable w/imported extra heavy glass top, \$250; student desk, white w/brass trim, chair, \$150; pair antique solid oak end tables, two tier, \$125/ both. 488-5564.

Solid oak kg sz waterbed w/headboard and mattress, ex cond, \$300 obo. 326-5445. On sz soft side waterbed mattress, box springs

and frame, \$80 obo. x38459 or 992-7409. Custom 2 sided 7' oak bookcase, antique hutch, brown and navy couch w/matching picture, 5 piece

girl's bedroom suite (no bed), large microwave, all ex cond, 50% of cost. 486-5745. Livingroom chair, golden harvest color, swivels and rocks, \$30 obo; papasan chair, orange color, \$20. Lisa. x40213 or 992-7302.

Glass top coffee table w/dark oak frame, like new. 54"x 28"x 16", \$125; wooden entertainment center, 64"x 72"x 17", fits 27"TV, \$100. 281-992-2806.

Queen honey oak waterbed, heater, four drawers, attachable nightstands, \$100 obo; medium green love seat and sleeper sofa w/honey oak accents, \$400/set obo; kg sz waterbed w/hybernation series motionless matress, dual heaters, lovely headboard, eight drawers, dark wood, \$250 obo. Sheryl, x41922 or 481-9301.

Cloth hunter green couch w/matching large chair and ottoman, \$300 obo. Shirley, x41818 or 481-5580

Ethan Allen entertainment center, \$600; Bassett living room set w/gn sleeping sofa, \$1100; GE refrig, 22.5 cu ft, \$300; Kenmore W/D, \$250/set; oval solid wood table w/ex leaves, 6 chairs, \$900. 996-0152

Nine ft pool table, ball return, \$600; roll top desk, \$275; modern oak/glass credenza, \$75; lg 3 piece entertainment wall unit w/glass doors and shelves, \$100. Pete, 480-4525.

Full sz bed, mattress and box foundation, wood frame, little used, \$75. x38520 or 332-1614. Admiral refrigerator, dbl door, water-ice dis-

penser, 23.5 cu ft, white, 3 yrs old, ex cond, \$700 obo. x36185 or 281-286-2174. Bedroom set, full sz, antique green, w/dresser, 5 drawer chest and 2 night stands, Italian design, ex cond, \$850. Magdi Yassa, 333-4760 or 486-0788.

Home or condo or multi-family, no approval assumption and/or owner finance, any condition.

Super Single waterbed, \$100 obo. 488-5416.

Want non-smoking roommate to share large 3 BR home in Clear Lake area, \$375/mo bills paid. John, x30543 or 286-7384.

Want roommate for 2-2 apartment. Clear Lake area, full sz W/D, amenities, ready to move in Feb/Mar, \$387.50 + 1/2 utilities. Jennifer, 333-6280 or 286-5639.

Want greenhouse for backyard, complete or frame only, good cond. 486-9605. Want headset(s) for general aviation aircraft use.

Want non-smoking female to share new 4-2 house, near South Shore Harbour, w/same; cable, W/D, security sys, garage, all house privileges

Warren. x34204 or 480-2954.

including large deck w/grill, no children/pets, \$500/mo includes utilities except phone. Pam, 281-334-0833. Want roommate to share Dickinson 3-2-2,

\$400/mo all bills paid except phone. John, 534-3041. Want non-smoking housemate to share 3 bedroom, 4k sq ft waterfront home on Taylor Lake, pool, boat dock, hot tub, own furnished bedroom and barthroom, \$600/mo bills paid. Leah, x34544

Want cheap Macintosh and parts. David, 244-

Want female roommate to share 4 bedroom house, \$275/mo, all bills paid. Theresa, 244-5089 or 480-6980.

F1N. 24mm f2.8. 85mm f1.8 and Canon flashes: want Mamiya 645 cameras and lenses also Novatron flash equipment, all must be working. Steve, x37152 or 992-7049. Want 13 yr old boys to play baseball, 334-2533.

Want Canon cameras and lenses, especially

Want personnel to join VPSI Vanpool, departing South Braeswood Park & Ride at 6:50 a.m. for JSC and offsite locations, 7:30 a.m. - 4:30 p.m. shift. Susan Gaynor, 282-5447 ot Al Ruder, x34997.

Want personnel working onsite to join VPSI Vanpool departing Meyerland Park & Ride at 7:05 a.m. for JSC. Loan Le, x36186.

Miscellaneous

Omega Speedmaster, Apollo 16, 18k gold astronaut's watch, serious inquiries only, 281-334-

Saddle w/sheep skin padding and leather straps, includes 3 girths of different size \$300 oho; halter and bits not included, but are for sale. 488-5416.

Red fiberglas truck topper, fits '85-'95 Toyota pickup, \$175, 480-3424. B&D #3320 2 hp, 2.5" industrial router w/.25"

and .375" collets, edge guide, wrenches and manual, new, \$90; Ryobi RE600 variable speed plunge router w/.25" collet, edge guide, B&D template guide adapter, wrench and manual, new, \$225. Tom Clark 244-9842 Tandy 1000 computer w/color monitor, printer,

S/W, \$75; Weslo manual treadmill, \$100; baby bedding, complete set, \$75; antique school desk, \$75, 291-9225. Two 10 gal aquariums w/hood and light kit \$18

ea. 332-1738.

Wood aquarium stand, 25"x 13", \$40; Tupperware, various sizes, good prices; boy's winter coat, almost new, sz 5. 480-3424. Pair small cages for small animal or birds, \$20

'89 Mustang or equivalent, \$100; entertainment center, unused, \$250; office furniture, 488-5564. Two Bally's PFL memberships, one Charter Gold, one Premier Plus, make offer, x36614.

ea; set of four alloy wheels w/covers, 6JX14, fits

Weight set, bar plus 90 lb weights, \$15. Joe, x38851 or 488-1750.

Sherwin-Willims exterior satin paint, 5 gal, tint to color, \$50; squirrel cage blower, 220 volts, \$45; Mitsubishi stereo system, \$80; 5 ft chain link gate, \$25; 75 ft chain link top pole, \$25; Hurst shifter,

410; wood dog house, 420; 13" snow chains, \$10: boy's Huffy 12 spd bike, ex cond, \$45. 332-2453.

Panasonic Bread Bakery, automatic bread maker w/yeast dispenser, was \$200+, now \$110; Blaupunkt RL529 6.5" 2-way speakers, unused, \$25; Realistic Autosound 40W stereo frequency equalizer/booster, \$15; RCA 12" B/W TV, \$30; stereo w/AM/FM cassette recorder and turntable. Marantz speakers, \$30; 7 piece 14" carbon steel wok set, \$8; Black Hills gold ring, rose design, sz 5, \$25. Jana, x47913.

Bally's PFL Gold Charter lifetime membership, \$550. x39393 or 997-2280.

Stair stepper, foot holds stay parallel to ground \$50 obo; Gympac weight set, \$20. Currie, x34428 or 281-480-7786.

Power rider and AB-roller w/electronic timer, fully assembled, will deliver, \$200, 486-9605. Camper shell, fits Chevy pickup, '60-'66 LWB, extended height, large rear window, sliding win-

dows on sides and front, \$100. Bob, x49623 or 992-0938 Skis, K2 extreme w/Solomon bindings, 180 length, \$275; Reebok Step and Video, \$45; Alvarez guitar and case, \$100; Olympus OM2S camera w/flash and several lenses, \$350; basketball goal.

London Fog coat w/removable liner, bone color, 450, 332-3168.

Champion jucier, new unused, stainless steel w/all attachments and user manual, \$200 obo. Rick, 244-8842 or 538-4278.

Handmade wooden New England style deck furniture, \$60; solid teak wood secretary, \$60; Child Craft baby bed w/mattress, white, ex cond, \$250; Soloflex, \$150; Craftsman gas powered edger, \$50; lawn tools, rake hoe, clippers, spade, shovel, post hole digger, \$50/all. 532-1263.

Matching country blue plaid sofa bed, \$150, and love seat, \$100, or \$200 for both; pine end table, \$50. Hal, x30503 or 488-2273.

Body tech home gym, like new, 4 stations, dual stack, \$399 obo. 482-9576.

Trimline VS200 treadmill, adj speed and height,

timer, \$150. Francis, x36531. Sewing machine, cabinet, chair, ex cond, \$200; computer telex 1240; Pontiac wheels, \$25 ea, vacuum cleanter, \$25; ceiling fans, \$20 ea, Doll Reader magazines, \$2 ea, CDs, \$5 ea; Dickens on the Strand costume, ladies' sizes 8 and 10, \$25 ea;

24 mo, ex cond, \$.50-\$5. x33903 or 488-6521. Peavey lighting system, includes Illuminator 600, pedal controllers and light stands, \$550; RCA 52" big screen TV, was approx \$1800, now \$1000. James, 337-5583.

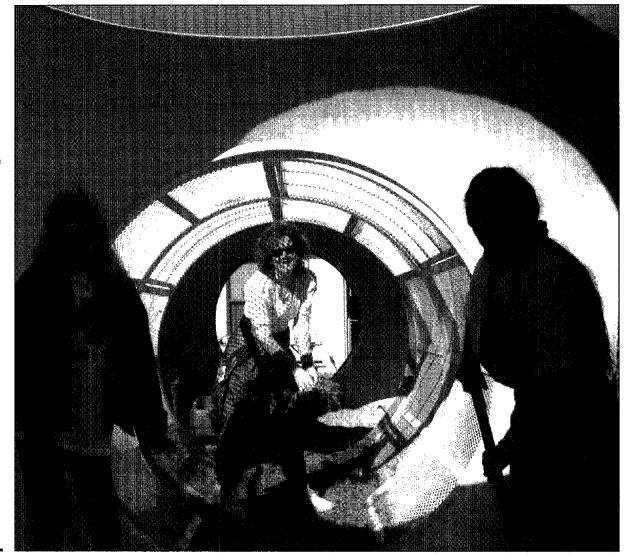
pagent dresses, sz 8, \$25; baby girl clothes, sz 0-

Browning 9mm automatic w/2 high capacity clips, Hi-Power model, ex cond, \$275. John, x38554.

Chain link fence, 90+ ft, top horizontal poles available, \$40 obo. Chris, x38124 or 286-8043. Beretta BS 950 .22 cal, \$150; Wesson snub .38

cal, \$25. x36472 or 281-286-5114. Lifestyler 8.0 treadmill, 1.25 hp dc motor, \$325; Kenwood KX-56W dual cassette deck, black face, ex cond, \$85. Bob, x33149.

From left, Gail Boyes, Michelle Isermann and Cinda Chullen rake weeds making the JSC Child Care Center's playground a safer place for the children. **Employees of the** Engineering **Business** Management Office volunteered their time during JSC Safety Day in October to make the Child Care Center a safer place to play. Center, Robin Stuart repairs a Bye-bye Buggy at the center. Other activities included sanding and hammering, raking overgrown grass and repairing playground equipment.



Lending a Hand

Business managers trade calculators for shovels, rakes to make child care center safer

ost JSC employees spent their Safety Day in October, roaming the mall looking at the variety of displays and attending safety seminars around the center. But, some employees in the Engineering Business Management Office volunteered their time to make the JSC Child Care Center a safer place for JSC children.

"We were encouraged through numerous safety day training sessions to be creative in planning the activities for JSC's Safety Day held last October," said Gail Boyes of the Engineering BMO. "The day following this training, I noticed a toddler table at the JSC Child Care Center was missing a leg and was being balanced by a chair. That appeared to be a very unsafe condition for our younger JSC family members."

Boyes decided that there might be other potential safety risks at the child care center and asked the facility director, Yolanda Gregory, to gather a list of other areas at the center that may be considered unsafe.

"I also had suggested to the individuals in my office as a part of their activities on Safety Day to consider volunteering an hour or two of their valuable time to provide some physical labor at the child care center in order to make it a safer place for the kids to learn and play," said Boyes. "To my surprise, 17 members of the Engineering BMO showed up at the child care center early October 23, with tools in hand, ready to make the site safer for the kids."

Those eager individuals included Boyes, Kathy Jurica, William Bays, Dave Westfall, Cinda Chullen, Michelle Isermann, Lisa Rea Phillips, Ann Sullivan, Robin Stuart, Keith Hutto, Charlene Gemar, Caroline Root, Krystine Bui, Jeff Johnson, Stephanie Hunter, Wendy Boudreaux and Wayman Randolph.

Some of the helpful activities performed by the Engineering BMO included sanding and hammering nails on handrails and play structures in both the toddler and preschool playgrounds; replacing a missing handrail; fixing the brakes and awning on the six-seater

toddler bye-bye buggy; raking up overgrown grass and small toys that were buried in the sandy play areas; repairing a rotted slide for the pre-toddler playground; fixing a baby bed leg; repairing wood on the front of the G-Node; and moving a piece of space hardware into the pre-

toddler area to be used as a shade structure.

"I wish we had more time, or could have worked on the weekend when the kids were gone to do some fixing up inside the child care center," Hunter said.

"This probably was one of the most worthwhile and productive efforts done on Safety Day. We should make it an annual event and get other offices involved. I felt like I was really giving some value back to JSC on Safety Day." Chullen said.

After several hours, the Safety Day list generated by the child care director was complete.

"This group really worked hard and accomplished a majority of the tasks on the child care center's 'to-do' lists," said

Tim Boyes, president of the child care board of directors. "Their hard work has made our facility a safer place for the children and the staff to learn and play."

Child care center parents also got involved during the child care center fall work day held Oct. 19. Parents, Vince Berend, Lynn Buquo, Sharyl Butler and Harold Moffitt redistributed sand and pulled grass under the climbing structures, repainted doors and repaired water play tables.

All the hard effort during Safety Day and parents work day resulted in an enjoyable Child Care Center Fall Festival held Oct. 31.

The Fall Festival is an annual event hosted by parents and teachers

for the child care center membership. This year's hosts and contributors to the event

included parents Alison Rickerl, Hester Yim, Helen Neighbors, Chip Shepherd, Sheryl Butler, Susan Morgan, Liz Pawlik, Dena Haynes, Karen Frank, Mary Cerimele, Jill Hemmingson, Malise Fletcher, Caryn Salkowski, Jackie Geyer, Gail Boyes, and Charlene Gemar, and the child care center Director Yolanda Gregory and teachers, Tina Bush, Lety Smallwood, El Borinksy, Queen Okoloise, Vera Tosto, Jackie Henderson, Branka Prusac, Jeanne Silver and Vicci

Their efforts included setting up a haunted house and providing many ghostly games, snacks and activities. The festival was attended and enjoyed by many of the child care center's members and fans, including JSC Director

George Abbey, JSC Associate Director for Management Susan Garman, Director of Human Resources Harvey Hartman, Manager of Programs and Policy Robert Hall and the Space Family Education board of directors, Tim Boyes, Vincent Berend, Karen Frank, Gretchen Thomas and Sharon Licht.

Plaques were presented by SFEI to Abbey, Garman, Hartman and Hall prior to the Christmas holidays, expressing SFEI's thanks for their participation at the festival and their continued support to the child care center.

The JSC Child Care Center is managed by the Space Family Education, Inc., a non-profit corporation established over five years ago for this purpose. The center's goal is to provide quality child care for on-site JSC employees and contractors.

Membership of the Space Family Education, Inc., consists of parents and interested individuals. A board of directors is elected every two years by the membership and is responsible for the hiring of a director, who provides day-today management. The present board consists of Tim Boyes, president, Vincent Berend, vice president, Gretchen Thomas, secretary, Sharon Licht, treasurer, and Karen Frank, policies and procedures. The facility director is Yolanda Gregory. The corporation was formed to provide parents and interested individuals at JSC with control and operation of the facility and to relieve the U.S. Government and NASA of any liability associated with child care. The primary source of financial support is through tuition fees paid by the parents and through commu nity support, including fundraising activities handled by volunteers.



Engineering Business Managment Office volunteers are presented with a Golden Hammer Award at an all-hands meeting for their efforts at the JSC Child Care Center. Front row from left are, Gail Boyes, Caroline Root, Robin Stuart, Michelle Isermann, Krystine Bui, Charlene Gemar and Cinda Chullen. Back row from left are, Ann Sullivan, Kathy Jurica, Keith Hutto, Jeff Johnson, Lisa Rea Phillips, Wendy Boudreaux and Stephanie Hunter. Volunteers Bill Bays, Dave Westfall and Wayman Randolph were unable to attend the special presentation.



Char Gemar grinds an infant slide to smooth the wood and prevent splinters as Dave Westfall looks on.



From left, Human Resources Director Harvey Hartman, JSC Child Care Director Yolanda Gregory, JSC Associate Director for Management Sue Garman, parent Frank Wood, JSC Director George Abbey and board members Tim Boyes, Vince Berend and Grethen Thomas take time out during a safety inspection to celebrate the JSC Child Care Center's annual fall festival.

Guidance, navigation team hangs STS-81 plaque

The Guidance, Navigation and Control team hung the STS-81 Mission Control plaque in recognition of its work before and during the flight.

Team Lead Ken Bain climbed the ladder held by Kevin Dunn as teammates, Eddie Trlica, Laura Stallard, Dave Marquette, Mike Sarafin and Jeff Wyrick were honored for their work to modify launch commit criteria on the orbital maneuvering system engine's actuator and for their discovery of a potential combined control mode that can be used during docked oper-

ations to save propellant.

The STS-81 mission was one of the smoothest

to date primarily because of the good work by all disciplines which made it difficult to choose one as the representative to hang the plaque," said Lead Flight Director Bill Reeves. "The Guidance Navigation and Control discipline was singled out because of its excellent support and persistence in recognizing that for a period of time both the shuttle and Mir spacecraft were controlling

the attitude of the combined stack at the same time. Further analysis on their part has discovered a potential combined control mode that may be used under certain circumstances in the future to save propellant with direct application to both the Phase 1 program and the International Space Station."

Readdy to move to shuttle program

Astronaut Bill Readdy will move to the Space Shuttle Program Development Office to manage

development enhancements across the program.

"This is a very high priority to

lead the STS into the next century," said Space Shuttle Program Manager Tommy Holloway. "We must have a safe, reliable, maintainable and affordable human-rated transportation system if we are to succeed in building the International Space Station and beyond in the 21st century. Technology enhancements focused on our existing space shuttle will be the bridge that spans



Readdy

the current era and leads to the next step in space technology."

Readdy will lead a team that will identify, prioritize and implement Space Transportation System safety, operations and maintenance technology enhancements.

Vilas elected to new post

Faith Vilas of the Earth Science and Solar System Exploration Division recently was elected chair of the Division for Planetary Sciences in the American Astronomical Society.

The Division for Planetary Sciences is one of the largest professional societies in the field of planetary sciences in the U.S. Its purpose is to advance the investigation of the solar system; encouraging interdisciplinary cooperation, which is accomplished through its annual meeting; and sponsor the official journal of the division, "Icarus"





McKay



Dittemore





Vilas will manage the operation of the division and represent the division both within and outside of the division and it's parent organization, the American Astronomical Society.

McKay receives honor

Technical Communicator Mary Fae McKay of the Earth Science Branch is about to become a Fellow of the Society for Technical Communication.

McKay will receive the rank at the STC annual conference to be held in May. There are fewer than 100 Fellows in the more than 18,000 members of STC. Fellows are chosen from among the associate fellows for "sustained and significant contributions to the theory and practice of technical communication" and, according to the STC membership directory "include some of the most admired members of our profession."

McKay's work as a technical com-

municator has received numerous technical publication competition awards both locally and nationally.

Dittemore, Richards take on new roles

JSC Director George Abbey has named Ron Dittemore manager of the Space Shuttle Vehicle Engineering Office and Dick Richards will serve as manager of Space Shuttle Program Integration.

Dittemore has been with NASA for more than 19 years and served in several senior technical and managerial positions. Most recently he served as the manager of Space Shuttle Program integration. Dittemore also served as manager of the Space Shuttle Integration and Operations Office.

Richards will replace Dittemore as manager of Space Shuttle Program integration. He will continue to serve as the Hubble Space Telescope

JSC Clinic offers blood cholesterol profiles in February

February is cholesterol month and the JSC Clinic will offer cholesterol profiles to employees who are not normally scheduled for physicals.

The clinic is now taking appointments for blood tests to be conducted Feb. 20 and 21. Employees can call the clinic at x34111 and receive instructions and appointments.

The clinic will check several factors once a blood sample has been taken. Results of triglyceride, high density, low density and total cholesterol and risk ratios will be determined and results mailed. total health

Triglyceride measures the fat in the body and healthy individuals should measure between 36 to 165 milligrams per deciliter.

High density and low density cholesterol refer to two types of lipoproteins, or packages of fat. These lipoproteins are made by the body to transport fat and cholesterol through the body. High density cholesterol contain the greatest amount of protein and small amounts of cholesterol. Individuals with high levels of high density cholesterol have less heart disease. Levels between 30 and 85 milligrams per deciliter are considered healthy. Low density cholesterol contain the greatest amount of cholesterol and may be responsible for depositing cholesterol in artery walls. Healthy individuals should have a reading lower than 130 milligrams per deciliter of low density cholesterol.

Total cholesterol measures all the cholesterol in the body. Individuals with levels below 200 milligrams per deciliter are considered in good health. Measurements between 200-239 are considered borderline and levels above 240 are high risk and warrant medical attention to help bring it down.

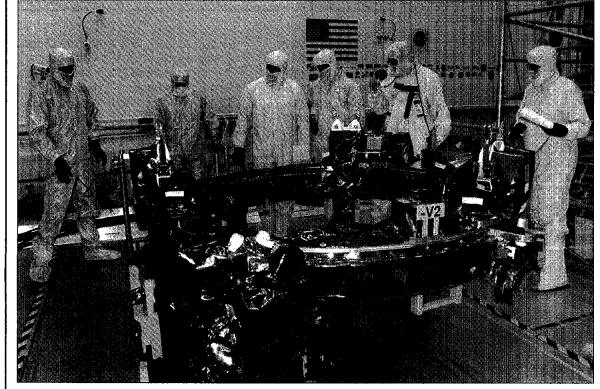
> The clinic will analyze all the above factors and send risk ratios in the mail.

> Blood cholesterol is an odorless, white, waxy substance found in all foods of animal origin. The body uses cholesterol to

make essential substances such as cell walls and hormones as well as various other functions.

High blood cholesterol is one of the three main controllable risk factors for coronary heart disease. The other two factors are high blood pressure and cigarette smoking. Diets high in saturated fat and cholesterol play a major role in high levels of blood cholesterol. Other factors include obesity, inherited tendencies, age and gender.

The average blood cholesterol levels in women prior to menopause are lower than those of men in the same age group. After menopause, women's average levels usually become higher than those of men. Oral contraceptives and pregnancy also can increase levels in some women. In men older than 50, levels tend to decline



WITH THIS RING-In Kennedy Space Center's Vertical Processing Facility, the STS-82 astronauts get familiar with the Flight Support System Berthing and Positioning System ring that will allow them to hold the Hubble Space Telescope in Discovery's cargo bay during servicing. From left are Mission Specialist Joe Tanner, a Hubble technician, Payload Commander Mark Lee, Mission Specialist Greg Harbaugh and additional Hubble technicians. Tanner, Lee, Harbaugh and Mission Specialist Steve Smith will perform space walks to service the orbiting telescope.

Golf association begins new season

The JSC Golf Association will begin its 1997 tournament season

vant and contractors, who enjoy stoke play tournaments at different

courses during the year. Flights are established with a maximum handi-March 1 and is seeking golfers for cap of 36 or about 110 maximum goes toward a prize fund. Cost per scores. Season winners are deter-The season is designed for mined by points from the best depending on the course. experienced golfers, both civil ser- seven of nine tournaments. Two tournaments from the Texas Top competitive play, strictly by the 20 list of favorite public courses are rules. The season consists of nine scheduled-Old Orchard and Longwood.

Entry fee into the JSC Golf Association is \$80. Part of this cost tournament ranges from \$30 to \$65

Applications are available from Treasurer Bob Sampson and are due Feb. 21. For information call Sampson at x34962 or e-mail at: robert.k.sampson1@jsc.nasa.gov

Max-Q to perform at banquet

(Continued from Page 1) in 1992 to Robert Gilruth.

Young's exceptional accomplishments in his career as a Navy pilot and as a NASA astronaut and senior management official have earned him more than 80 other major awards and four honorary doctorate degrees, making him an ideal candidate for the Corona. Young was the first person to fly in space six times, and he is the only one to fly that many times in three different space vehicles—two times each in Gemini, Apollo and the space shuttle. Young is one of only a dozen astronauts to walk on the moon and he commanded STS-1, the first flight of the space shuttle

program. The Rotary National Award for Space Achievement Foundation also will honor several scientists, engineers and managers with Stellar Awards at a 7 p.m. March 6 banquet at Space Center Houston.

The theme for this year's event is "Dreams to Destiny." A multi-media program will celebrate the accomplishments and contributions of individuals in making the dream of space exploration a practical reality. Houston Livestock Show and Rodeo announcer Bill Bailey will serve as master of ceremonies and the all-astronaut band, Max-Q, will provide musical entertainment.

For additional information on the Foundation or to inquire about tickets to the special event at Space Center Houston, call Jack Lister at 480-6516.

Space News

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EditorKelly Humphries Managing EditorKaren Schmidt

Crew celebrates space commitment

(Continued from Page 1)

training and the mission.

"It is not exactly easy living with someone who is training for a space flight," Jett said. "It is a lot of effort, it's a year out of your life when you are very focused and they put up with a lot. I think they deserve a lot of credit for our success."

Wisoff said everyone from family members to shuttle mechanics to the weather was responsible for the success of the mission.

"We had flawless weather, we had a flawless training team, a flawless vehicle and in general we had flawless timing because we got John back in time for the Super Bowl," he joked. "But it all wouldn't have happened without the support of our family, friends, our training team and

all the people who got the vehicle to perform perfectly for us. It really is a team effort. These missions that are international in nature show that we can work together to further our goals in space exploration.'

Ivins celebrated the commitment of JSC workers to space exploration.

"Every time that you send people into space you prove again that there is still magic in the universe and that there is still strength in the human spirit and determination to know what's over the horizon."

"STS-81 really was a team effort," Duffy said. "It's a team here in the U.S., a team in Russia, a team in the space shuttle, a team in Mission Control, a team in Russian mission control, a team aboard the Mirteam effort from start to finish.'

NASA-JSC