

National Aeronautics and Space Administration

> Lyndon B. Johnson Space Center Houston, Texas



Pat pending

After 55 years of government service, Pat Patnesky still isn't finished. Pat's favorite photos on Page 3.



Health happening

JSC's Total Health wellness program celebrates its first year of operations with a pond party. Photo on Page 4.

Space News Roundup

Five astronauts dock with Phase One

Sega, Readdy, Chilton, Blaha and Lucid get Russia-related jobs

assignments that put them in the heart of preparations to conduct joint missions with Russia's space program and dock space shuttles with the Mir space station.

Astronaut Ronald M. Sega, Ph.D., will replace William F. Readdy as the NASA manager of operational activities at Star City, Russia, near

As director of operations in Russia, Sega will support training and preparations of NASA astronauts at Gagarin Cosmonaut Training Center, Star City. He will be the primary inter-

Five NASA astronauts have new face between NASA and the GCTC Russian management, coordinating all training and other operations involving NASA or contractor personnel in Star City.

Sega will continue to establish operational and personal relationships with Star City management and the cosmonauts, which are pivotal to successful, long-term joint operations involving NASA, the Russian Space Agency and GCTC. He also will participate in personal training designed to acquaint astronauts with the operational aspects of Russian vehicles and training facilities.

Space shuttles will rendezvous, dock with Mir and transfer crews seven times between 1995 and 1997. The shuttle will assist with crew exchange, resupply and payload activities for Mir.

Sega's other primary responsibilities will include support of astronauts and their families currently living in Star City. He will routinely monitor the current training program for astronauts being trained for flights to the Mir space station and will also continue development of training curriculum for U.S. astronauts training for joint missions aboard Mir.

Sega will join fellow astronauts Norm Thagard and Bonnie Dunbar, who have been training in Star City since February as the prime and backup crew members for a threemonth flight aboard Mir. Thagard is scheduled to be launched aboard a Soyuz spacecraft in March 1995. Following his stay aboard Mir, the crew of STS-71, which will include Dunbar as a mission specialist, will dock Atlantis to Mir. It will be the first of seven to 10 shuttle visits made to the Russian space station during the 1995-1997 time frame.

Please see CHILTON, Page 4









Health Benefits open season begins Monday

Open season for the Federal Employees Health Benefits program begins Monday, and employees needing more information can attend the annual Health Fair from 9 a.m.-4 p.m. Nov. 21 in the Gilruth Center ballroom.

During open season, which runs through Dec. 12, employees will have the opportunity to enroll or change health coverage, or change self or dependent coverage. Changes will become effective in January.

Major changes in health care coverage will take place in 1995. Highdose chemotherapy and autologous bone marrow transplantation in the treatment of breast cancer, ovarian cancer and multiple myeloma will now be covered. FEHB will now carry three new HMOs; Metlife, Humana, and PCA. Childhood immunizations will no longer be subject to deductibles. Premiums will drop an average of 1.1 percent for

The Health Fair, sponsored by the Human Resources Office and expected to draw about 500 people, offers employees an opportunity to meet with representatives from nearly all health plans to discuss the changes in the 1995 benefits. Other companies will be offering nonfederal benefits for dental and vision care and financial planning.

Representatives from NASA Employee Benefits Association life insurance and the National Association of Retired Federal Employees will provide information about

Employees can obtain additional information from Employee Services located in Bldg. 45 Rm 140 or call



STS-66 Payload Commander Ellen Ochoa, left, works with Commander Don McMonagle to prepare for a maneuver involving the deployment of the CRISTA-SPAS satellite for eight days of free-flying observations of the Earth's atmosphere. CRISTA-SPAS is to be recaptured Saturday.

Minimizing administrative burden

Electronic mail not official record

In an effort to minimize potentially burdensome regulations on JSC electronic mail systems. JSC's Chief Information Officer has created a new policy that prohibits the use of E-mail messages, of themselves, as official

The policy, announced last week by CIO Jack Garman, applies to all offices under the management of JSC Director Dr. Carolyn Huntoon, and all electronic or E-mail systems

supported by JSC. The policy is a response to recently proposed National Archives and Records . Administration guidelines, which would require

burdensome records management practices related to E-mail. Without a formal policy, JSC is subject to making all E-mail messages offi-

cial records. The NARA's proposed guidelines are a fallout from recent court rulings which determined that E-mail messages can constitute "records" under the Federal Records Act, said Johnny Cools of the CIO's Information Resources Management Program.

"Throughout the federal government, and especially within NARA, there is a growing

Please see E-MAIL, Page 4

Atlantis uses new approach to grab satellite

By Eileen Hawley

Atlantis is closing in on an atmosphere-observing satellite that has been gathering information about the Earth's global environment over the past eight days.

Saturday morning, Payload Commander Ellen Ochoa

will reach out with the shuttle's robot arm to grapple the Cryogenic Infrared Spectrometers Telescopes for the Atmosphere from a distance of about 30 feet, completing the mission of the German-built satellite that was deployed Nov. 4 by Mission Specialist Jean-Francois Clervoy.

The grapple will follow a rendezvous approach being used for the first time during a shuttle mis-



Mission Commander Don McMonagle and Pilot Curt Brown will command a series of orbiter maneuvers to close in on CRISTA-SPAS approaching the satellite from below, using an "R-bar" approach. In a normal rendezvous profile-a "V-bar" approach-the shuttle approaches a target from a point directly ahead of the satellite along the velocity vector. To rendezvous with CRISTA, McMonagle and Brown will approach from an

This "R-bar" technique will be used next year when Atlantis edges toward Russia's Mir Space Station for the first shuttle/Mir docking mission. This rendezvous approach is designed to save propellant and minimize jet thruster impingement on Mir's solar panels during next year's rendezvous activity.

imaginary line drawn from the satellite to the center of

The retrieval will cap 10 days of atmospheric data gathering by both CRISTA-SPAS and the Atmospheric Laboratory for Applications and Science. Throughout the mission, both instruments have monitored cloud tops and the distribution of gases in the atmosphere as they studied the chemical processes that both create and destroy the thin layer of ozone that helps protect life on Earth from harmful ultraviolet radiation.

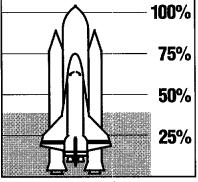
Please see STS-66, Page 4

CFC campaign closer to goal

The Combined Federal Campaign is in full swing with 40 percent of employees contributing to date. Total contributions are \$185,768.45. Twenty-six percent of employees have contributed with 187 of those employees contributing one hour's pay per month or more towards the

Carrie Ash of the Information Systems Business Management Office in the Business Management Directorate won the second free round trip Continental Airline ticket to anywhere in the continental U.S.

Employees can learn more about CFC, which ends Nov. 18, by watching JSC TV channel 21 at 9 a.m. and 3 p.m. Tuesdays and Thursdays.



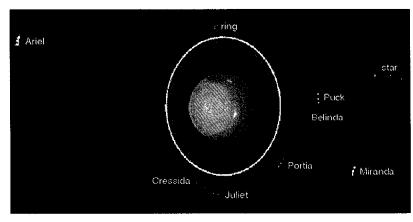
1994 GOAL: \$460,500



Hubble images reveal Uranus

Three spectacular new images of the planet Uranus taken by NASA's Hubble Space Telescope reveal the planet's rings, at least five of the inner moons, and bright clouds and a high altitude haze above the planet's south pole.

Hubble's new views were imaged by the Wide Field Planetary Camera on Aug. 14, when Uranus was 1.7 billion miles from Earth, Uranus' rings previously have been photographed in visible light and seen in such detail only by the Voyager 2 spacecraft as it flew by the planet in 1986. Since then, none of the planet's inner satellites has been observed and no high resolution observations of the rings have been possible.



In the new Hubble images, several of Uranus' rings are resolved, including the outermost Epsilon ring. The planet, which has a total of 11 concentric rings of dark dust, is tipped such that its rotation axis lies in the plane of its orbit, so the rings appear nearly face-on as seen from

Earth and HST.

The detail in the HST observations will allow astronomers to determine the orbits of the moons more precisely, leading to a better understanding of the unusual dvnamics of Uranus' complicated satellite system.

Ficket 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.

Christmas Dinner/Dance: 7:30 p.m. Dec. 9 & 10 at the Gilruth Center, Cost is \$22.50 per person includes prime rib dinner.

Hockey: Houston Aeros vs. Minnesota, 6 p.m. Nov. 27 at the Summit. Cost is \$11, on

Ballet: Clear Lake Metropolitan Ballet presents "The Nutcracker," 8 p.m. Dec. 9 & 10 and 2 p.m. Dec 10 & 11 at the University of Houston Clear Lake. Cost is \$12.

Clear Lake Symphony: Clear Lake Symphony presents "Christmas Pops Gala" 8 p.m. Dec. 3 at the University of Houston Clear Lake,. Cost is \$5.

Pecan Crop: Sweet Water Pecan Halves. \$5.50 per pound.

Dickens on the Strand: Dec. 3 & 4 in Galveston. Cost is \$6.30 per person.

Moody Gardens: Discount tickets for two of three different attractions: \$9.50 Space Center Houston: Discount tickets: adult, \$8.75; child (3-11), \$7.10; commem-

Metro tickets: Passes, books and single tickets available.

Movie discounts: General Cinema, \$4.75; AMC Theater, \$4; Loew's Theater, \$4.75. **Stamps**: Book of 20, \$5.80

Stocking Stuffers: Bldg. 11 store will have a variety of gift and stocking stuffers for

JSC history: Suddenly, Tomorrow Came: A History of the Johnson Space Center,

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 NASA badge or yellow EAA dependent 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: Dependents and spouses may apply for photo identification badges from 7 a.m.-9 p.m. Monday-Friday; and 8 a.m.-4 p.m. Saturdays. Dependents must be between 16 and 23 years old.

Weight safety: Required course for employees wishing to use the weight room is offered from 8-9:30 p.m. Nov. 17 and Dec. 14. Pre-registration is required. Cost is \$5.

Defensive driving: Course is offered from 8:15 a.m.-3 p.m. Saturday. Next class is Nov. 19. Cost is \$19.

Aerobics: High/low-impact class meets from 5:15-6:15 p.m. Tuesdays and Thursdays. Cost is \$32 for eight weeks.

Exercise: Low-impact class meets from 5:15-6:15 p.m. Mondays and Wednesdays. Aikido: Martial arts class meets from 5-7 p.m. Tuesdays and Wednesdays. Cost is \$25 per month. New classes begin the first of each month.

Tennis league: A fall tennis league may be started if there is sufficient interest. Contact the Gilruth Center at x33345.

Softball league: Registration for winter softball league will be held 7 a.m. Nov. 28. Play begins Dec. 12.

Country dancing: Beginners class meets from 7-9 p.m.; advanced class meets from 8:30-10 p.m. Partners are required. For additional information, contact the Gilruth

Golf lessons: Lessons for all levels. Cost is \$90 for six weeks. For additional informa-

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

Veterans Day: Most JSC offices will be closed in observance of the Veterans Day holiday.

IMAX movie: Space Center Houston, will feature a Star Trek Movie Marathon from 7 p.m. to 7 a.m. featuring all six full feature films. For additional information call 244-

Cafeteria menu: Special: tuna noodle casserole. Total Health: steamed salmon steak. Entrees: steamed salmon steak, roast beef, baked chicken, steamed fish, Reuben sandwich. Soup: seafood gumbo. Vegetables: French cut green beans, cauliflower with cheese, green peas, black-eyed

Saturday

Trek salute: Star Trek-themed characters will meet and greet the public from noon-6 p.m. Nov. 12 at Space Center Houston. John De Lancie, who portrays "Q" on "Star Trek: The Next Generation," will appear at 3 p.m. For additional information call 244-2105.

Sunday

Trek salute: Star Trek-themed characters will meet and greet the public from noon-6 p.m. Nov. 13 at Space Center Houston. John De Lancie, who portrays "Q" on "Star Trek: The Next Generation," will appear at 1 p.m. For additional information call 244-2105.

Monday

Cafeteria menu: Special: breaded cutlet. Total Health: crispy baked chicken. Entrees: baked chicken, beef chop suey, smoked sausage and German potato salad, French dip sandwich. Soup: cream of broccoli. Vegetables: okra and tomatoes, peas, navy beans, baby carrots.

Tuesday

AIAA meets: American Institute of Aeronautics and Astronautics will

meet at 5:30 Nov. 15 at the Gilruth Center, Guest speaker to be James French. Cost for members \$9, nonmembers \$10.

Cafeteria menu: Special: fried chicken. Total Health: vegetable lasagna Entrees: Salisbury steak, steamed pollock, vegetable lasagna, French dip sandwich. Soup: split pea and ham. Vegetables: mixed vegetables, French cut green beans, pinto beans, vegetable sticks.

Wednesday

Astronomy seminar: The JSC Astronomy Seminar will meet at noon Nov. 16 in Bldg. 31, Rm. 129. Julianne Moses of LPI will discuss 'The Effect of Comet Shoemaker Levy on the Atmosphere of Jupiter." For more information, call Al Jackson at 333-7679.

Toastmasters meet: The Spaceland Toastmasters meets at 7 a.m. Nov. 16 at House of Prayer Lutheran Church on Bay Area Blvd. For additional information, contact Darrell Boyd, x36803.

Cafeteria menu: Special: stuffed bell pepper. Total Health: stuffed bell pepper with creole sauce. Entrees: fried catfish with hush puppies, stirfry chicken and rice, wieners and beans, Reuben sandwich. Soup: seafood gumbo. Vegetables: buttered rice, Italian green beans, corn O'Brien, peas and carrots.

Thursday

AGA meets: The Houston Chapter of the Association of Government Accountants will conduct two fourhour workshops on Writing Successful Audit Programs and Building Stronger Teams, and host a luncheon Nov. 17 at the Holiday Inn-Medical Center, 6701 S. Main. Cost is \$12 for the luncheon, \$48 for each workshop. For additional information, call Ken Sidney at x30728, or Kathy McDonald at x32733.

SOLE meets: Society of Logistics Engineers will meet at 5:30 p.m. Nov. 17. at South Shore Harbour Country

Club. Guest speaker is Rich Wolfe of Rockwell's Logistics Operations. Cost is \$9 for buffet dinner. For additional information contact 283-6863.

Cafeteria menu: Special: barbecue smoked link. Total Health: roasted turkey breast. Entrees: turkey and dressing, beef stroganoff, chopped sirloin, French dip sandwich. Soup: tomato Florentine. Vegetables: Lima beans, buttered squash, Spanish rice, oriental vegetables.

Friday

Business expo: Small, small disadvantaged and small womenowned businesses may attend a Small Business Expo from 9 a.m.-2 p.m. Nov. 18 in the Gilruth Center. For additional information, contact Barbara Kirkland, x34512.

IMAX movie: at Space Center Houston will feature screenings of "Destiny in Space," the newest IMAX offering. Tickets are \$5 adults, \$4 children 3-11 and senior citizens. For additional information call 244-2105.

Cafeteria menu: Special: meat sauce and spaghetti. Total Health: spaghetti noodles with turkey meat sauce. Entrees: rainbow trout, liver and onions, beef cannelloni, pork and shrimp egg roll, Reuben sandwich. Soup: seafood gumbo. Vegetables: steamed broccoli, breaded okra, cut corn, black-eyed peas.

Nov. 19

Trek salute: Star Trek-themed characters will meet and greet the public from noon-6 p.m. Nov. 19 at Space Center Houston, Mark Lenard, who portrayed Spock's father "Sarek," will appear at 3 p.m. For additional information call 244-2105.

Nov. 20

Trek salute: Star Trek-themed characters will meet and greet the public from noon-6 p.m. at Space Center Houston. Mark Lenard, who portrayed Spock's father "Sarek," will appear at 1 p.m. For additional information call 244-2105.

JSC

Swap Shop

Property

Sale: Baywind II condo,1-1, new carpet/fresh paint, W/D, fridge, DW, FPL, \$23k. 486-8047.

Sale: 2.5 acres, ready to build, Alta Loma/Santa Fe, mineral rights, country environment. 337-1311. Sale: Spring, TX, house for couple or sm family, dbl atriums, ceramic tile, cathedral ceiling, \$73,990.

Rent: Condo, 1 BR, \$410/mo + deposit. 436-1140. Rent: Condo off El Dorado, 1-1-1CP, W/D, appli, upstairs w/private entrance/balcony, immed occup, \$370/mo + \$200 dep. Richard, x31488 or 286-6915 Lease: El Dorado Trace condo, 2-2, furnished, W/D, alarm, TV/VCR/stereo, \$675/mo + electric 333-8126 or 488-1327.

Rent: Pipers Meadow, 3-2-2, Ig living area, FPL, ceiling fan, mini blinds, fresh interior paint, \$825/mo + dep. Walter, 332-1609.

Sale/Lease: Seabrook TH, 2-2.5-2A, no yard work, approx 1680 sq ft, new roof, sunken LR, 2-sided WB/FLP, \$69k/\$750/mo + dep. 326-3737.

Sale: Bayridge 3-2-2, LC, foreclosure, must sell, Sale: Bay Glen, 2-story, 3-2.5-2, tile entry &

Cars & Trucks

'92 Plymouth Laser, ex cond, turquoise, 5 spd, AC, AM/FM/cass, cruise control, 60k mi, \$8.5k. Caren. 471-6540 x 223.

'93 Toyota Corolla LE, 4 dr, low miles, 13k mi, show room car includes hood/fender cover, \$13,575/ obo. Rich, x41089 or 480-8335.

'87 Mazda 626, gray/gray, alarm, new tires/brakes, & clutch. \$3.5k. 326-6228. '88 Subaru, auto, low miles, ex cond, \$4k. Jeff,

'79 Toyota Celica, 280-0828,

'86 Ford custom van, ex cond, 63k mi, \$7.5k. x30122. '86 SVO Mustang, wht/gray leather interior, low

miles, ex cond, serious inquiries only. 337-7777. '79 Porsche Targa 911SC, silver, AC, new tires/brakes, V6, \$11.5k. John, 266-0468 or 488-

'85 Tovota Camry, auto, AC, cassette, one owner.

ex cond, \$3.3k. 334-1072. F150 PU, V8, auto, AC, PS/PB, AM/FM, Leer camper top, \$2350/obo. x33280 or 474-5976.

92 Toyota Paseo, black, 5 spd, AC, less than 36k mi. ex cond. \$9.7k, 488-4393 '91 Peugeot 405S, mint cond, fully loaded, 70k mi, \$6.8k/obo, 554-4799.

93 Mazda MX-6, hunter green w/taupe cloth interior, V6, 5 spd, ABS, moonroof, rear spoiler, AM/FM/cass, 23k. mi, ex cond, \$17.5k. 486-2414.

'93 Ford Probe, pick up notes, \$395. 337-4990.
'85 Porsche 944, black, 5 spd, sunroof, AC, AM/FM/cass, ex cond. \$5k, x35180 or 326-3706. '90 Toyota Camry DX, 4 dr, auto, power, cruise,

tilt, AC, AM/FM/cass, indigo blue, \$7,850. 538-1985. '87 Hyundai Excel SE, 5 spd, AC, AM/FM/cass, \$14k/obo Mike, x47794 or 332-1617 '92 Toyota Corolla, 4 dr, 5 spd, AC, pwr steering,

AM/FM/cass, 35k mi, \$6.9k. Ray, x38876 or 338-'88 Toyota 4-Runner, grey with both hard & convertible top, new tires & battery, 66k mi, ex cond, \$14.5k, 486-5456

'77 Ford F-150 PU, AC, radio, good tires, runs good, make offer. x36442 or 538-3273.
'77 Ford Maverick, 4 dr, AC, radio, good tires, runs

good, obo. x36442 or 538-3273. '86 Mazda RX7 GXL, leather, AC, power, sunroof, ex cond, 84k mi, \$5.2k. x36604 or 482-7156.

'88 Honda CR80, water-cooler, ex cond, runs great, \$900/obo. Allen, 326-4613.
'86 Honda Shadow 500 with overdrive, red. 409-

925-2581 or 409-925-6241.

Men's Bianchi Sport SX, 14 spd, 25" rims, ex

cond, \$100/obo. Lisa, x40213 or 554-4140.

Mountain parts, RST 300 suspension fork, 1" dia,

130 mm length, \$70; '94 Shiman Deore LX crank w/pedals, \$40. Dan, 282-5239 or 486-1102.

Bike roof rack, \$60; Profile aerobars, \$60; Avoce seat, \$2. 333-8126 or 488-1327. Boys bike, 16" rims, ages 5-9 yrs, \$35. 332-9105. Suzuki TM 250, clean, \$450. 326-3737.

Boats & Planes

Wet Jet brand wave runner, 432 cc engine, 2-person, Sportsman galvanized trailer, custom cover, \$4k/obo, Charles, 559-2331.

Aluminum boat, 16', trailer, \$250. 554-6138. Hobie 14 Cat, turbo, good cond, many new parts included, \$95/obo. 554-2320.

'89 Kenner/center console, 16', 70 hp Johnson O/B,SS prop, Hummingbird wide eye fish finder, Minkota troll motor, canopy, trailer, \$5.5k. Larry,

20' boat trailer, tandem axle, good cond, \$250. Jim. x35366 or 286-7374.

Audiovisual & Computers

Citizen printer, "CSX-140" w/GSX color option \$300. Magdi Yassa, 333-4760 or 486-0788.

Microsoft Visual C++, CD-ROM, \$150; Borland C++ for Windows, ver 4.0, \$100; Borland Visual solutions pack for C++, \$75; Paradox for Windows ver 4.0, \$100; Master Visual C++, book w/CD-ROM, \$40. 474-3820.

Sonv CD ROM drive and Soundblaster card. \$100. Mark, x30044 or 996-0981.

Microsoft Word for Mac 5.1 w/full documentation, \$75; upgrade Word 6.0 and save \$121 over market price, upgrade Office 4.2 and save \$161 over list price, get a great program legally for a great price. Marta, x37763.

AM/FM/cassette/turntable, \$25. Ray, x53954 or 487-4889. RCA VHS Camcorder all accessories, \$325;

Jazz records, \$2/ea. Howard, x48947 or 486-Nintendo Video player & 15 games, \$100, 554-6138

MS Word 5.0, \$200; Ms Excel 4.0, \$245; Adobe Illustrator 3.2, \$150; Canvas 3.0, \$175; software is unused w/manuals, Kim, 333-4222.

IBM XT Clone, CGA monitor, 640k RAM, 40 Meg HD, 5.25 FD, 3.5 FD, mouse, 101 keyboard,

Mac SE, 2.5 MB RAM, 20 MB HD, 1.4 M disk drive, Hayes 1200 Baud modem, HP deskjet printer, software & manuals, \$900. Jim, x35366 or

Pets & Livestock

Free German Shepherd, needs room to run, beautiful friendly, protective, dog house & 36 ft chain link fence incl. 332-6754.

Field Spaniel, good disposition, good companion, loving & fun, family wishes to travel but pet is not allowed. 487-4705.

Free long-haired orange & white female cat, spayed & declawed, 3 yrs old, tolerates baths well, affectionate, lap cat, all shots, 283-9500 x 509 or

17-hand TB gelding, 7 yrs old, great adult hunter & Equitation horse, schooling 3'3" - 3'6" easily loves cats. Karen, 331-6853. Small grey cat looking for responsible home,

owner moving, male, neutered, declawed, great personality. Kim, 333-4222.

Early American solid pine wood furniture, sofa. recliner, chair, tables, bar stools, bunk beds with mattressess, twin bed with mattress/boxspring; shelves, mirrors, dining table with leaves & 6 chairs, kitchen table with 6 chairs, white canopy bed with boxsprings/mattress, custom built walnut bar with stereo cabinets. 474-3507.

Round pedestal dining room table, 42" dia, ex cond, \$150; Maytag W/D gas, large capacity, 2 speed, \$700 OBO. Rita, x32686.

Simmons baby bed in natural wood w/mattress. comforter, bumper pads, ex cond, etc, \$175/all or bed/mattress, \$150, accessories, \$40; Frigidaire electric dryer, good cond, \$100. 997-0756. GE 4 burner electric cook top w/matching cop-

pertone range hood, good cond, \$150. 484-0987 Drexel Heritage dining table w/extensions. 4 cane-back chairs w/vinyl-colored cushioned seats,

\$350/obo. Cindy, x32645.

Samsung 13" color TV/VCR combo w/remote, new \$360 sell \$275/obo; Straussbaurg West-minster mantle clock, new \$150 sell \$85. x49695

King size waterbed, mirrored headboard, footboard, 6-drawer under dresser, mattress, heater, liner, \$200, 280-5848 or 338-2603. Double headboard, gold metal, \$10. Ray,

x53954 or 487-4889 Solid wood bunkbeds with mattresses, ladder built in end of bed, \$175/obo. x33131 or 486-

Crib converts to toddler/youth bed, 2 mattress-Large sofa, loveseat, both black/gray, w/laguer trim & laquer center table & lamp table. \$600/ali.

Zenth 19" color TV, cable ready, ex cond, needs remote, \$150, Mike, x47794 or 332-1617. Super single waterbed complete w/mattress, heater, & bookcase headboard, \$50; entertainment center, \$30. 941-4307.

x36339 or 997-7246.

Want personnel to join VPSI vanpool departing Meverland Park & ride lot at 7:05 a.m. for JSC. Vanpool consists of on-site personnel working the 8 a.m./4:30 p.m. shift, currently have 15 good

members, and looking for 2 to 3 more. Travis Moebes, x45765 or Don Pipkins, x35346. Want carpool from 290 at Beltway to NASA/

JSC, 7:00 a.m. to 4:00 p.m. hours flexible. Want personnel to join VPSI pool, West Loop Park & Ride lot, 6:50 A.M. to NASA/contractors.

Richard Heetderks, x37557 or Ed Rangel, x36124. Want Men's used mountain bike or Mybrid, 2 - 5 yrs old, good quality priced \$100 to \$200 less than new bike. x32567 or 488-3314.

Want low priced school/work car or truck. 271-

Want non-smoking female roommate to share new house in League City, \$400/mo all bills pd. Want roommate, M/F to share 4-2-2, in Sagemont area, washer/dryer, pets okay, \$235 + 1/3 bills, available immed. Neil or George, 333-8096

or 481-2510. Want occasional babysitter for 7 yr old & 20 mo old, boys, mostly weekends, Clear Lake area, references please. Laura, x32172 or 286-1133.

Want Tiny Toons plush Buster Bunny & Babs. x47067 or 480-3424. Want roommate, 2-2.5, townhouse, close to JSC, \$380. 286-0250.

Want super 8mm movie projector, 488-2157 Want babysitter for 10 yr old girl, must be high school or college age females, willing to be inter viewed. x38889 or 480-1340.

Want motorcycle, small dirt bike under 80cc. equipment also. 332-9105.

Miscellaneous

Novatel cellular phone for car, ex cond, \$65.

Southwest Airline passes, 2 roundtrip, go any where in USA, anytime, no blackout dates, good thru 9/95, \$700/both or \$375/ea, x38413.

Genuine brass qn sz bed/frame, \$450; Weed Eater 5hp rear-tine tiller, \$450; 250 sq ft grey marble 12" x 12" tiles, all or part, \$3 sq ft; adjustable bedframe, \$10. 997-2280.

Swimming pool filler, sand medium, fiberglass, good cond, 14 yrs, old, 36" dia, \$25/obo. x32567 or

Rope bracelet, 14k gold, 3mm wide, 7" long, 14k gold shrimp earrings, \$40. Eric, x31917. Wall hangings & wagon wheel fixtures, wine rack, desk chair, wrought iron & wooden garden bench. 474-3507.

White porcelain round sink, 19", \$20; metal detector, needs repair, \$50; electric piano w/stool. lots of music books, \$200; Commodore 64 computer, monitor/software, \$150, 488-6917.

Portable spa/hot-tub, 4 bench seats, 1 lounge seat, 250 gal, \$1.1k, Tim, x33791 or 482-2308. '92 regulation size pool table w/ball return, w/accessories, new \$1,395 sell \$900/obo. Greg,

Sears Craftsman riding lawn mower, 15 hp, 42" cut, 2 mos, \$1.2k/obo; Ryobi gas powered weedeater, \$40. Dave, x40206 or 326-3723.

Sears wet/shop vac, \$55; living room chair, dark green naugahyde, \$75; trundle bed w/2 mattresses, \$200; Schwinn stationary exercise bike, \$85; post top lamp, \$35. x30446 or 338-2625

Portable crib, \$45; Graco Brougham stroller, \$65; Gerry locking diaper pail, \$5; Cosco heart-to-heart snugli, \$5; portable bottle warmer & baby wipe warmer, \$10/ea, Century infant car seat/carrier, Fisher Price potty, \$5. Sharon, x38506 or 480-

Blue Fox silver ribbed jacket, size medium,

\$300. Linda, 484-0987. '87 Sears stacked washer/dryer, good cond, \$275; full size pool table/cues, etc, \$200; Gourmet magazines, '68-'86, old text books, science related, German language text books, & literature. 333-

Dating service membership, works great, only used twice, need to sell to pay for wedding. Tim, x31456 or 768-1168.

Wedding gown & veil, size 10-11, sweetheart neckline, lightly beaded bodice, long sheer sleeves w/wide lace cuff, tufted, long trane, matching fingertip length veil, \$250/obo. Andrea, x30059 or 286-7951.

Rockwell drill press, with floor stand & wheels, \$100.486-6688.

Wooden rocking chair, \$65; white eyelet rocking chair cover, \$15; TV stand for 27", \$30; Technics stereo cabinet, \$25; dive knife, \$10; booties, wm med, \$5; dive gloves, wm med, \$5. Tina, x39727

Fisher Price car seat, \$25; car booster seat, \$12: safety gate, \$12: daybed cover, \$25: curtains \$10; lamp cover, \$5; rug, \$5. Tina, x39727 or 286-Wormy Chestnut cabinet grade boards, 450 sq

ft. \$1k or \$3 sq ft. Howard, x48947 or 486-6183. King size waterbed w/access, \$150; Graco Deluxe stroller, \$20, 326-3737.

Wooden doghouse, 36W x 36L x 50H, \$85: Brine soccer ball sz 5, \$6; Hewlett Packard HP12C, Financial calculator, \$45; Sharp portable electronic typewriter, \$60. Ted, x34116 or 482-

Taurus .357 Magnum, ex cond, \$250. Frank, x39924 or 992-3515. Black vinyl sofa bed, solid construction, good

cond, \$60; 2 ea roof wind turbin, heavy duty, \$10. Ruby, x33836 or 946-7028. BMI Helix weight machine w/squat att, ex cond. \$350/obo: metal desk, \$20/obo; 4 antique oak cane bottom chairs, good cond, \$225/obo. Mike,

x30115 or Sharon, x32256. Running boards for Ford F150 extended cab

pickup, \$50, 326-6537 Dolls from private collection, Alexander; Berjusa; Vogue, porcelain, vinyl, ex cond. 488-6521 Assume Houston cellular account, NASA only,

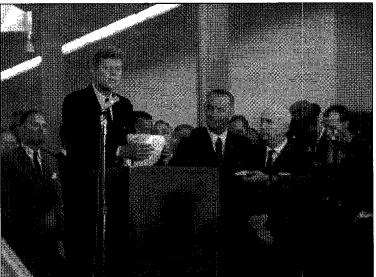
monthly rate, \$25, no transfer/startup fees, includes phone & charger, \$50 free air time. x30040 or 488-4464. Portable spa/hot tub, seats 5 w/cover, needs

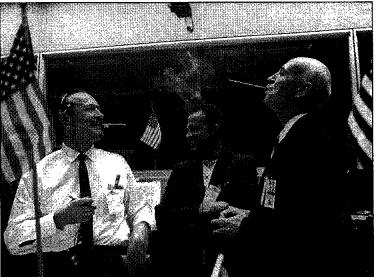
some repair, \$750, 482-1702. Barbecues, small bench type, large vertical electric & pedestal flat, \$89/all; large coffee table, \$25.

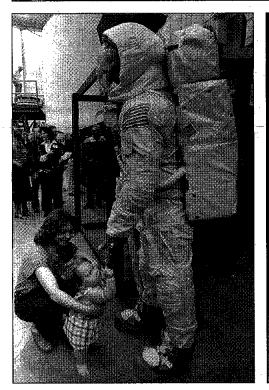
Custom "Le Bra" for Mazda Miata, new \$85 sell \$50; Sony "Discman" w/case, new \$135 sell \$75. Trish, 282-4558 or 486-1727.

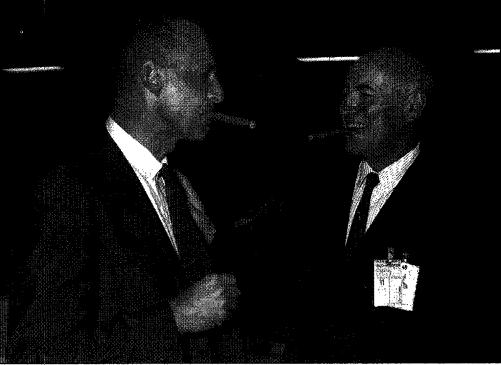
Weslo Expert 650 electronic Cross Training system w/stepper, \$320. x45910 or 286-3538.



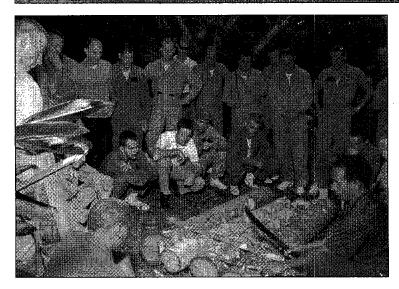














Favorite Photos

Longtime NASA photographer shares most memorable shots

hether covering the most intense moments in Mission Control, traipsing through the jungles of Panama with astronauts on survival training or shooting a celebrity visit by Princess Grace Kelly, one man has seen it all over the past 35 years

it all over the past 35 years.

Andrew "Pat" Patnesky was honored last week for 55 years of government service that began Aug. 11, 1939, in the U.S. Army Air Corps. He received congratulations from JSC Director Dr. Carolyn Huntoon, a certificate from NASA Administrator Daniel S. Goldin, a framed letter from President Bill Clinton and a 55-year service pin.

"Of course, I owe it all to my wife," Patnesky

"Of course, I owe it all to my wife," Patnesky says. "If she hadn't kept me going like she did, givin' me vitamins and this and that, I probably wouldn't have the 55. But most of all, I thank the good Lord and my guardian angels for being here. Photographing for NASA has been wonderful. The geology trips were all memorable, but I enjoyed the jungle and desert because it was more like work.

"I have so many friends—some of them even think I'm somebody. It's like my wife said, when she was asked if I was somebody, she said 'He's almost somebody.'

But one day I may be somebody." Here, Patnesky shares his favorite NASA photos, some memories and his own inimitable wit.

Top to bottom, left

to right:

1) The original seven Mercury astronauts in 1962, from left Scott Carpenter, Gordon Cooper, John Glenn, Gus Grissom, Wally

Shirra, Alan Shepard and Deke Slayton, "with their cowboy hats and sheriff's badges. They were made honorary sheriffs of Texas. This was taken at the Sam Houston Coliseum during their introduction to the people of Texas and Houston."

2) Also in 1962, President John F. Kennedy speaks at one of the 14 temporary Manned Spacecraft Center sites that were spread across Houston. With him were, at left, NASA Administrator James Webb, and right, Vice President Lyndon Johnson and MSC Director Robert Gilruth. "I really liked JFK. He really pushed the Apollo space program."

3) Christopher Kraft, left, and Gilruth smoke celebratory cigars in the MCC on Dec. 15, 1965, as Cooper looks on following the successful rendezvous of the Gemini 6 and 7 spacecraft. "There's been big people and little people, but no matter what, if they needed the photo I've been ready to take it—if I had film."

4) A child reaches up to touch the glove of a space-suited mannequin in Bldg. 9 in 1979. "The boy was fascinated by the suit—probably grew up to be an astronaut. I like the young kids. I like to talk to them about space and that, give them some idea of what they might like to do, maybe become astronauts or something in the space program—engineers, flight control. And there are many, many children out there that really do love the space program. They look at me and say, if he can do it we can, too."

5) In 1966, Apollo Spacecraft Program Director George Low and Gilruth congratulate each other on a successful Gemini 11 mission after splashdown. "Dr. Lowe and Dr. Gilruth were two of the finest gentlemen I ever worked for in all my time in the service, and I have worked for many fine gentlemen."

6) A group of astronauts shows off garb made from parachutes in 1967 during a three-day visit to the desert near Pasco, Wash. "You couldn't do nothing during the day, it was too hot. They were supposed to find food out there, but there wasn't nothin'. The doctor on the trip had a little tame snake he had found in the desert, and would ask them 'how are you guys doing?' They'd say they were hungry enough to eat a snake and he'd throw it onto them."

7) Astronauts learn how to make a raft using a machete in the Panama jungle in 1967. "The Panamanian guide cut those logs with a machete as fast as he could. It was amazing how he did the work. One of the astronauts cut his head by bouncing the machete off a tree. I think the jungle trip was one of my most memorable ones. It was kind of tough at times, but I really enjoyed it and I know the astronauts did. They played like they was Tarzan while we was like the slaves, I guess, carrying all our camera equipment."

8) Patnesky receives a special recognition from STS-68 Lead Flight Director Chuck Shaw and the entire Orbit 2 team during a loss of communication period in Mission Control.

JSC Photos by Andrew Patnesky and Kelly Humphries





BLUE BOO-Blue Brothers" Andy and Andre Sylvester give a Halloween presentation to employees of the Automation, Robotics and Simulation Division in Bldg. 32. The twins—Andy is on the left, Andre is on the right-both work for AR&SD in ER5.

STS-66 crew tests new heat pipe designs

(Continued from page 1)

Halfway through the 11-day ATLAS 3 mission, the atmospheric instruments continued to amass detailed information on the chemical constituents of the middle atmosphere. The instruments were working well and providing high-quality data to the science teams.

The Atmospheric Trace Molecule Spectroscopy experiment measured the chemical and physical composition of the middle atmosphere. Since ATMOS first flew on Spacelab 3 in 1985, scientists have retrieved height profiles of over 30 trace gases from ATMOS data.

ATMOS viewed the stratosphere at orbital sunrise and sunset, gathering information in the infrared portion of the electromagnetic spectrum. Since trace gas molecules absorb solar radiation at different wavelengths, ATMOS determines which wavelengths are being absorbed, giving scientists a more detailed picture of the atmosphere's makeup.

According to Principal Investigator amounts of heat to various heat pipe Mike Gunson, ATMOS already has far exceeded its minimum success requirements for the mission, performing "well beyond expectations" on its "most productive, and certainly most scientifically interesting, flight ever on any shuttle mission."

The Space Shuttle Backscatter Ultraviolet instrument team participated in what Principal Investigator Ernest Hilsenrath called "a spontaneous experiment collaboration" with the Middle Atmosphere High Resolution Spectrograph Investigation to test the possibility of using MAHRSI's limb-scanning ability to measure ultraviolet radiation and ozone in the lower stratosphere.

In addition to working with the atmospheric instruments, McMonagle, Brown, Ochoa, Clervoy, and Mission Specialists Scott Parazynski and Joe Tanner supported a variety of middeck payloads.

The Heat Pipe Performance experiment applied specifically measured designs, measuring the cooling capacity of the pipe and determining the limits of each design's operation.

Parazynski worked with a student-designed and managed payload, the Experiment of the Sun for Complementing the ATLAS Payload and for Education. ESCAPE conducted research in extreme ultraviolet wavelengths, a field in which little research has been done over the last 20 years.

Atlantis has performed well on its first flight in more than two years, supporting the scientific objectives of STS-66. The only difficulty was a balky network signal processor. The problem was resolved when controllers switched to a backup processor, restoring full communications.

Atlantis is scheduled to land at 6:46 a.m. CST Monday at Kennedy Space Center. Return to Ellington Field should occur nine hours later. For the schedule, call the Employee Information Service at x36765.

Rockwell gets shuttle orbiter logistics contract

Rockwell International Corp.'s ment spares, overhaul and repair Space Systems Division in Downey, Calif., has been awarded a \$1.4 billion contract to continue providing shuttle orbiter logistics operations requirements at Kennedy Space Center.

The cost-plus-award-fee contract covers a basic five-year period during fiscal years 1995 to 1999. In addition, the contract features two options: a one-year option for fiscal 2000 and a four-year option covering fiscal 2001 to 2004.

Under the terms of the contract. Rockwell will continue providing flight and ground support equipservices, depot operations and enhancements, logistics management support, sustaining engineering for GSE and support for the shuttle orbiter's thermal protection system.

Rockwell will continue providing these services from their locations at the NASA Shuttle Logistics Depot, Cape Canaveral, Fla.; Kennedy Space Center, and Downey, Calif.

Kennedy has maintained responsibility for the shuttle logistics contract since 1986, when the function was moved from JSC.

Media Services earns Golden Eagle for film documenting STS-49 mission

Media Services Corp., working closely with the JSC Public Affairs Office, has been awarded the Council on International Nontheatrical Events Golden Eagle for the production, "Houston, I think we've got a satellite.

The 30-minute production highlights STS-49 and the dramatic Intelsat capture, and includes a behind the scenes look at the Tiger Team in action, animation specially developed for the mission, and the tough decisions that so captivated

"This recognition is evidence of the continued good work by everyone involved in producing quality programming from the Public Affairs Office," says Jeanne Newman, project manager for Media Services Corporation.

The award will be presented during the March 3 banquet, and the film will be eligible for placement in international festivals by CINE.

"Houston, I think we've got a satellite," is available on loan through the Film/Video Distribution Library. Call 486-9606 for more information.

Conference highlights hottest trends in technology for information security

JSC's Mission Operations Directorate and the Texas Gulf Coast Chapter of the Information Systems Security Association will sponsor the third Technology for Information Security' 94 Conference December 5-8.

The conference, being held at the San Luis Resort and Conference Center in Galveston, will feature the hottest information security speakers and topics.

Steve Bellovin of AT&T, author of Firewalls and Internet Security, and Hal Tipton, one of the founders of ISSA and current director of Information Systems Security Certification Consortium, will be

keynote speakers.

ISSA's Richard Owen will co-present "Penetration Ethics and Law" with Cheryl McManus Burtze, assistant attorney general for Texas. A number of speakers will share their experiences combating actual breakins including "Analysis of the Internet Gateway Break-ins" and intruder management panel discussions.

Scott Charney, unit chief of the U.S. Department of Justice's Computer Crime Unit, will speak, and "A. Darkside Hacker" will appear anonymously and describe computer intrusion exploits.

For registration or further conference information, call 282-3336.

Chilton, Readdy command docking flights

(Continued from page 1)

Sega, 41, flew on Discovery's STS-60 mission in February, the first joint U.S./Russian shuttle mission.

Readdy, a captain in the Naval Reserve, will return to JSC to begin

training with Kevin P Chilton, an Air Force colonel, as commanders of the fourth and third shuttle/Mir docking missions, respectively.

The third shuttle/Mir mission, in March 1996. will transfer one of the six astronaut crew members for a four-month stay on MIR. STS-76 also will include 10 days of life and materials

science experimentation. Chilton, 39, has flown twice aboard Endeavour-STS-49 in May 1992

and STS-59 in April.

STS-49 included a triple rendezvous with a stranded Intelsat communications satellite. STS-59 was dedicated to mapping the Earth's

environmental changes using radar and air pollution measuring instruments of the first Space Radar Laboratory mission. Nearly 500 orbiter maneuvers were conducted to help point the radar instruments.

The fourth docking mission in July 1996 will drop off another astronaut and bring home the astronaut launched on STS-76. In addition to conducting experiments within a pressurized module, it will feature a space walk to transfer experiments from the shut-'s payload bay to Mir's

docking module. Readdy, 42, flew on STS-42 in January 1992 and STS-51 in September 1993, both aboard Discovery. He most recently was NASA manager of operational activities at Star City, Russia.

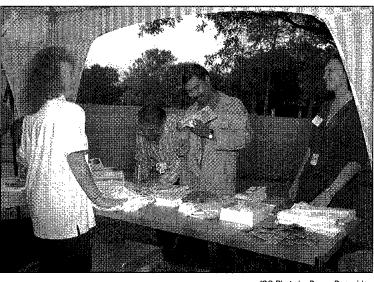
On STS-42, he participated in the first International Microgravity Laboratory mission. On STS-51, he participated in the deployment of the Advanced Communications Technology Satellite, and the deploy, rendezvous and retrieval of a science satellite designed to study ultraviolet radiation from distant stellar objects.

Astronauts John E. Blaha and Shannon W. Lucid, Ph.D., have been selected to train for the second of at least four scheduled astronaut stays aboard Mir. The veteran astronauts start training in Star City in February.

Blaha, 52, a retired Air Force colonel, flew on four shuttle missions, STS-29 in March 1989, STS-33 in November 1989, STS-43 in August

Lucid, 50, also is a four flight veteran, serving as a mission specialist on STS 51-G in June 1985, STS-34 in October 1989, STS-43 in August 1991 and STS-58 in October 1993.

These assignments continue the U.S./Russia human space flight cooperation, which consists of a threephased program leading up to international participation in space station.



JSC Photo by Benny Benavides

POND PARTY-Debbie Hartnett, Junior Villarreal, David DeHoyos and Kathy Parker, from left, gather around one of the booths issuing information and novelties during last week's Total Health pond party, celebrating the first year of JSC's new wellness program. Fanny packs and drink bottles were among the hottest items, and were handed out in return for answers to a questionnaire about employees use and understanding of the Total Health program.

Child Care Center hosts nurturing

The JSC Child Care Center will present a curriculum seminar from 7-10 p.m. Tuesday in the Teague Auditorium.

University of Houston-Clear Lake Professors Carolyn Black and Rebecca Huss will join the center staff in discussing the importance of a nurturing environment that promotes the physical, social, emotional and cognitive development of children from infancy to preschool age.

For more information, call Fran or Barbara at x34734.

Space News

The Roundup is an official publication of the National Aeronautics and Space Administration, Lyndon B. Johnson Space Center, Houston, Texas, and is published every Friday by the Public Affairs Office for all space center employees.

.....Kelly Humphries Associate EditorKaren Schmidt Associate EditorEileen Hawley

E-mail not ready for records (Continued from page 1)

concern to ensure that all electronic documentation that constitute records is properly preserved and archived" he said. "When you look at that, you naturally come to a concern about E-mail because it is a form of electronic 'documentation."

Under the regulations specified in the NARA guidelines, E-mail messages would need to be evaluated to determine whether or not they should be considered official records, Cools said. It would be

extremely costly to treat E-mail as official records, especially since none of the commercially available E-mail systems adequately meet the functionality required of a records management system, he added.

"E-mail systems at JSC by themselves do not meet the requirements for a records management system," Cools explained. "Therefore, no one at JSC can use the Email systems, of themselves, as a records management system."

Cools said the CIO's policy is a "wake-up call" to organizations that may have been treating electronic mail as official records.

"Some people may say they have been doing just that," Cools said. "If you are, you need to review how you save records and revise your procedures accordingly."

Organizations that need additional information about this policy should contact Cools in the Office of the Chief Information Officer at

NASA-JSC