

Lyndon B. Johnson Space Center Houston, Texas



NASA Administrator Daniel Goldin talks about where he's coming from and where he sees the agency going. Story on Page 3.



Decadigits

Starting Monday, you'll have to dial 10 digits to make long-distance calls on the FTS network. Story on Page 4.

Space News Roundup

JSC cultivates Earth Day Celebration Tree-planting ceremony, environment expo on tap Wednesday

New boss

The space program's interest in preserving the environment will come back down to Earth next week when JSC employees gather for a special Earth Day Celebration.

All employees are invited to the celebration being sponsored by the Center Operations Directorate Plant Engineering Division's Environmental Services Office. It will start with a tree-planting ceremony at 9:30 a.m. Wednesday at the JSC Child Care

Center and be accompanied by an Earth Day Expo from 9:30 a.m.-1:30 p.m. in the Gilruth Center ballroom.

The celebration is JSC's way of participating in Worldwide Earth Day

"The purpose of this is to promote environmental awareness at JSC, said coordinator Jo Kines. "A number of local organizations and environmental specialists will be available to provide information on ecological,

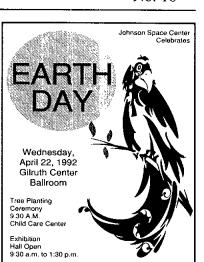
environmental and other 'Earth' subjects ranging from global concerns such as endangered species to more local interests such as recycling, conservation, canoeing and sailing. There will even be some live animal exhibits."

JSC Acting Director Paul J. Weitz and other JSC officials will participate in the tree-planting ceremony. Ivy Alexander of Four Seasons, the JSC grounds maintenance contractor, is

donating the tree for the ceremony, and Houston 2 x 2, an organization sponsoring the planting of 2 million trees by the year 2000, is donating another tree.

"Johnson Space Center is committed to supporting environmental protection and is pleased to provide this opportunity to enhance environmental awareness," said Center Operations Director Ken Gilbreath.

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<u>Goldin encouraging</u>

Survey to eye total quality gains at JSC

JSC's top officials, along with officials from other NASA centers and NASA Headquarters, spent the past weekend getting to know NASA Administrator Daniel Goldin and learning more about his earnest commitment to total quality management.

During the discussions, Goldin said he wants all NASA centers to look for efficiencies, to work together to develop a consensus on short- and long-range planning, to weave total quality into the daily fabric of work and to eliminate processes that don't add to NASA's final products.

As Goldin continues to stress his faith in total quality, JSC is preparing to step out with a Total Quality Survey next week that will tap the opinions of about a fourth of the center's civil service employees.

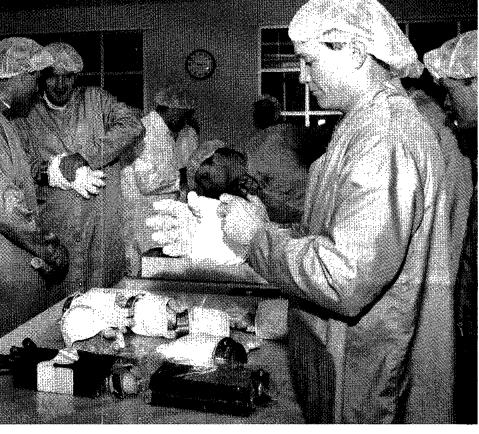
Goldin favors participate management and feels strongly that a consensus among NASA, its contractors and other important space program stakeholders must drive NASA's vision for the next 30 years, According to JSC Acting Director Paul. J. Weitz. That vision must be rooted in a mission statement with underlying values, he added.

Weitz said the new administrator believes that all planning must embody the total quality approach, and that TQM should not be a separate program.

"I think the new administrator's approach to management validates the work we've been doing at JSC through our total quality and strategic planning efforts," Weitz said. "In fact, he encouraged us to do more.'

Goldin emphasized the importance of metrics — establishing measurements of success and tracking them, and benchmarking - comparing what NASA is doing

Please see **SURVEY**, Page 4



JSC Photo by Benny Benavides

STS-49 Mission Specialists Rick Hieb, left, and Pierre Thuot check the fit of the gloves they will use when they climb into their extravehicular mobility unit space suits during next month's mission to rescue and reboost the Intelsat VI satellite and test Assembly of Space Station by EVA Methods. Pilot Kevin Chilton, far left, Mission Specialist Tom Akers, center, and Mission Specialist Bruce Melnick, far right, and the rest of the crew participated in the bench review of equipment that will be used on the seven-day flight.

Endeavour's engine swap moving fast

Working "a little ahead of schedule," technicians at the Kennedy Space Center are wrapping up work replacing Endeavour's three main engines and keeping the maiden flight of the orbiter on track for May 5.

The engine replacement was recommended following the engine test fire last week that discovered irregularities in two of the engines that involved a pressure build up in the liquid oxygen preburner of one and higher than normal vibration in the high pressure oxidizer turbopump

of the other. While the discrepancies likely would not have been a safety concern during an actual launch, backup engines were available and the schedule impact was minimal, thus the decision to make the change.

Engines one and two were changed by late Wednesday and the last replacement engine was scheduled to be installed today. Two of the replace-

ment engines last flew on STS-44 and were scheduled for Atlantis' next mission and were checked out and ready to go. Engine three, actually the seventeenth of the fleet, last flew

aboard Atlantis in November 1985. It has since gone through a thorough rebuild and acceptance test program, according to Floyd Bennett, Rockwell engine expert in the Project Integration Office.

"The way things are going with the engine change out, they'll finish a little ahead of schedule," said John Crockett,

Please see ENDEAVOUR, Page 4

ENDEAVOUR

Kranz receives Astronautics Engineer Award

National Space Club cites leadership from Gemini to shuttle

Eugene F. Kranz received the continuing leadership in space held, Mr. Kranz has been a domi-National Space Club's Astronautics shuttle operations. Engineer Award at the 35th annual Kranz was nominated by JSC Dr. Robert H. Goddard Memorial Dinner last Friday.

Kranz became the 34th person to be recognized as the space engineer who has made the most outstanding personal contribution to the advancement of space technology. He received the 1992 award for his space engineering leadership in the Gemini, Apollo

JSC Mission Operations Director and Skylab programs and for his

Director Aaron Cohen for his performance in the demanding role of flight director on eight Gemini missions, all 11 Apollo missions and three Skylab missions, and for his role as the critical interface between the flight control team, agency management and customers in all manned space flights

"In all of the positions that he has nant figure in the development and execution of manned space flight operations engineering and support," Cohen wrote of the Toledo, Ohio native who holds a bachelor of science degree in aeronautical engineering from Parks College of St. Louis University, Missouri.

Last year's recipient was JSC alumnus and Space Station Freedom Program Director Richard



Eugene Kranz

NASA recognizes 150 from JSC with Honor Awards

More than 150 people were recognized Wednesday for their outstanding service at the annual NASA Honor Awards Ceremony in Teague Auditorium.

Four individuals already had received the Distinguished Service Medal at NASA Headquarters. They were Vance D. Brand, Michael L. Coats, James F. Buchli and Carolyn L. Huntoon. Daniel R. Brown and Donald G. Whitman, both of Rockwell, received the Distinguished Public Service Medal at Headquarters.

The Outstanding Leadership Medal was presented to Joseph D. Atkinson Jr., John E. Blaha, Richard O. Covey, Mark K. Craig, Walter W. Guy, Harvey L. Hartman, Joseph P. Loftus Jr., Grady E. McCright, Steven R. Nagel, Robert J. Naughton, Bryan D. O'Connor and Howard J. Schneider.

The Exceptional Service Medal was presented to James C. Adamson, James P. Bagian, Harold F. Battaglia, William V. Bates Jr., Guion S. Bluford Jr., Mark N. Brown, John M. Crockett,

Larry D. Davis, Carroll T. Dawson, William D. Drastata, Cynthia C. Draughon, Robert L. Duppstadt, Wayne A. Eaton, Jon D. Erickson, Guy S. Gardner, Charles D. Gemar, William H. Gerstenmaier, David S. Grissom, Louis E. Guidry Jr., Yolanda Guillen-Burris, N. Wayne Hale Jr., Kathleen J. Healey, Richard L. Hill, Jeffrey A. Hoffman, Gene F. Holloway, John C. Hooper III, Debra L. Johnson, Malcolm E. Jones, Charles G. Krpec Jr., Helen W. Lane, Curtis J. LeBlanc, John M. Lounge, G.

David Low, Shannon W. Lucid, Sharon J. Martin, Fred A. McAllister, Donald L. Mitchell, Gordon L. Norbraten, Shannon L. O'Roark, Robert A.R. Parker, John C. Peck, Charles R. Price, Jerry L. Ross, David R. Saucier, Calvin Schomburg, Robert D. Schwartz Jr., M. Rhea Seddon, William W. Seitz, James L. Smothermon. Robert C. Springer, Fred R. Spross, Jane M. Stearns, Jerrold H. Suddath (posthumously), Teresa R. Sullivan, John A. Wegener, Virginia A. Whitelaw,

Charles L. Wilson and William D. Womack.

Exceptional Acheivement Medals went to Cathy L. Claunch, Josephine C. Corey, Elena M. Huffstetler, Armando Marquez, Rose A. Mendlowitz, John Carre D. Ngo, Michael E. Read, Marvin L. Sharp and Nancy E. Tengler.

Robert F. Hall received an Equal **Employment Opportunity Medal** and Gautam D. Badhwar earned Exceptional Scientific Achievement Medal.

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Ticket Window

The following discount tickets are available for purchase in the Bldg. 11 Exchange Gift Store from 10 a.m.-2 p.m. weekdays. For more information, call x35350 or x30990.

EAA NASA Picnic (May 2, Gilruth): adult, \$5; child, \$3; prices go up \$1 April 27.

EAA NASA Night at Astroworld (6 p.m.-midnight, April 24): \$10.50.

EAA Deep Sea Fishing (April 25, Galveston): \$45 to fish; \$20 to ride.

EAA Country Western Dance (7 p.m. April 18, Gilruth): \$12.50. EAA Galveston Historical Home Tour (May 2, 3, 9, 10): \$11.

Sea World, \$18.90; Astroworld, \$16.95; Waterworld, \$9.50; and Six Flags, \$14.95. Movie discounts: General Cinema, \$4; AMC Theater, \$3.75; Loews Theater, \$4.

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 badge or EAA membership card. Classes tend to fill up four weeks in advance. For more information, call

EAA badges — Dependents and spouses may apply for photo identification badges from 6:30-9 p.m. Monday through Friday. Dependents must be between 16 and 23 years old.

Weight Safety — Required course for employees wishing to use the Gilruth weight room is offered from 8-9:30 p.m. April 29. Cost is \$5.

Defensive driving — Course is offered from 8 a.m.-5 p.m. May 9 and June 6. Cost is \$19.

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

Exercise — Low-impact classes meet from 5:15-6:15 p.m. Mondays and Wednesdays. Cost is \$24.

Aikido - Martial arts class meets Tuesdays and Fridays. Cost is \$35 per month.

Intercenter Run — Runners in the 10-kilometer or 2-mile races may turn in their times for the annual Intercenter Run at the Rec Center throughout April. Fall Intercenter Run T-shirts can be picked up in Rm. 146.

Country and western dance - Six-week class will meet Fridays beginning April 17, or Mondays beginning April 27. Beginner classes meet from 7-8:30 p.m.; intermediate from 8:30-10 p.m. Cost is \$20 per couple.

Almost Anything Goes — Six co-ed teams needed for JSC Picnic May 2. Teams consist of three men and three women. Entry fee is \$10; deadline is April 24. Each participant receives a T-shirt.

Fitness program — Health Related Fitness Program includes medical examination screening, 12-week individually prescribed exercise program. Call Larry Wier, x30301.

JSC

Dates & Data

Today

UNIX meeting — The JSC UNIX Systems Administration Group will meet at 2 p.m. April 17 in Bldg. 12, Rm. 256. Craig Zook will discuss "Implementing Domain Name Server Installation." For more information, call Mark Hutchison, x31141.

HSS meets — The Houston Space Society will meet at 7:30 p.m. April 17 at Rice University in Rm. 106 of the Space Sciences Bldg. Brenda Thompson, project engineer for McDonnell Douglas, will discuss "Walking in Space." For more information, call Clifford Carley at 923-7221.

Cafeteria menu - Special: tuna and noodle casserole. Entrees: liver and onions, deviled crabs, roast beef with dressing. Soup: seafood gumbo. Vegetables: whipped potatoes, peas, cauliflower.

Monday

UHCL seminar — The American Institute of Aeronautics and Astronautics will present a seminar on "Programs in the School of Natural and Applied Science at UH-Clear Lake" at 10:30 a.m. April 20 in the Gilruth Center. For reservations, call Frankie Happ at 333-6064.

Cafeteria menu - Special: breaded cutlet. Entrees: beef chop suey, Polish sausage with potato salad. Soup: French onion. Vegetables: okra and tomatoes, green peas.

Tuesday

Picnic committee meets — The 1992 JSC Picnic Committee will meet at 4:30 p.m. April 21 at the Gilruth Center. For more information, call Ginger Gibson, x30596.

BANN meets — The Bay Area NAFE (National Association of Female Executives) Network will meet at 6

p.m. April 21 at the South Shore Country Club. Sandy Vilas will present The Ten Commandments of Networking." For more information, call Sharon Westerman, 486-8927.

Cafeteria menu — Special: fried chicken. Entrees: Salisbury steak, shrimp Creole. Soup: split pea. Vegetables: mixed vegetables, beets, whipped potatoes.

Wednesday

Earth Day Celebration — JSC's Environmental Services Office is sponsoring a tree-planting ceremony at 9:30 a.m. at the JSC Child Care Center followed by an Earth Day Expo at the Gilruth Center, Local organizations and companies will provide information on environmental and ecological subjects. All civil service and contractor employees are welcome. For more information, call Jo Kines at x33218 or Ginger Gibson at x30596.

NMA meets - the JSC Chapter of the National Management Association will meet at 5 p.m. April 22 in the Gilruth Center Ballroom. Paul Nutting, city manager of League City, will discuss "Managing City Government in the '90s." Dinner cost for guests is \$8. For more information, call Valerie Burnham at x34210.

Cafeteria menu — Special: stuffed bell pepper. Entrees: fried catfish with hush puppies, braised beef rib, barbecue plate, wieners and beans, shrimp salad. Soup: seafood gumbo. Vegetables: corn O'Brian, rice, Italian green

Thursday

Lunch and learn — The American Institute of Aeronautics and Astronautics' Ground Testing and Simulation Technical Committee will present a lunch and learn meeting on "The

Crew and Thermal Systems Division testing Laboratories" at 11:30 a.m. April 23 in the Bldg. 3 cafeteria. Dr. Frank Burgett of the Facilities Projects Section will speak. For more information, call Dr. S. Arepalli at x35910.

SCS meets - The Bay Area/ Houston chapter of the Society for Computer Simulation will meet at 11:45 a.m. April 23 in Lockheed Plaza 3, first floor pic room. Mike Ross, manager of Lockheed Engineering and Science Co.'s Robotics Department, will discuss "Simulation and Space Manipulators.

Cafeteria menu - Special: barbecue smoked link. Entrees: beef Stroganoff, turkey and dressing. Soup: chicken noodle. Vegetables: Lima beans, buttered squash, Spanish rice.

April 24

IEEE video conference — The Institute of Electrical and Electronics Engineers will present a video conference on "Workstations of the Future" at 10:30 a.m. April 30 in the Gilruth Center. Deadline for registration is April 24; for details, call Andy Lindberg at x31474.

Cafeteria menu — Special: meat sauce and spaghetti. Entrees: baked scrod, liver and onions, fried shrimp. Soup: seafood gumbo. Vegetables: green beans, buttered broccoli, whipped potatoes.

April 29

STI conference - JSC will host the 1992 NASA Scientific and Technical Information Conference April 29-May 1 at the Nassau Bay Hilton. The agencywide conference will focus on issues relating to the production, dissemination and retention of NASA scientific and technical information. For more information, call Patti Kanz,

<u>vap Shop</u>

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 AP3, or deliver them to the deposit box outside Rm. 147 in Bldg. 2. No phone or fax ads accepted.

Property

Sale: Countryside, 3-2.5-2A, 2-story, lg lot, cov deck, all BR up, int util, CCISD, \$66.9K. 554-7623.

Rent: Barringer Way, 2-1, W/D conn, pool stor area, no pets, ex cond, \$425/mo. 486-2048. Sale: La Porte, Fairmont East, 3-2-2, DR, FPL, fenced, eat-in kitchen, \$69.9K. 333-9733. Sale: Bolivar Island, 4 lots on Crystal Beach.

\$2K/ea. 921-7212. Sale/Lease: Nassau Bay TH, 4-2-2, over 2000 sq ft, 2-story den, master down, lg gar,

atrium, deck, newly remodeled, \$119.9K or \$1290/mo. Jerry, x38922 or 488-5307. Sale: Sage Glen, 4 BR, wood floor, skylights, quiet, \$84.9K. Eric, x38420.

Rent: Pipers Meadow, 2-2-2, \$700/mo. Mike, x32255 or 585-6728. Rent: Beach-front condo, Cancun, Mexico,

w/full kitchen, avail yr-around, \$450/wk, incl dly maid serv. Katie x33185. Lease: Middlebrook, 3-3-2A, close to NASA, option to buy, \$875/mo. Michael, x37371 or

Rent: Baywind II, 1 BR, upstairs by pool,

Rent: New Orleans condo in French Quarter, Jazz Festival wk Apr 24-May 1, priv rooftop

deck, great skyline view, furn, TV, \$500. 282-6422 or 280-8927. Sale: Meadowgreen, new section, 5-2.5-2, 2story, 2 LR's, FPL, 8.5% FHA assum, or

exchange for smaller house, 488-3191. Lease: Friendswood, Forest Bend, 3-2-2. for-

mal DR, lg kitchen, refrig, FPL, new carpet, fenced, \$650/mo. 482-6609. Sale: CL TH, 3-2.5-2cp, patio FPL, fan, W/D conn, new central A/C, newly remodeled, con-

venient to NASA, \$63.9K. Ed, x36969 or 332-0442 Lease: Heritage Park, 3-2-2, avail 5-1-92, no

pets, \$650/mo plus \$500/dep. 486-9469. Lease: Pipers Meadow, 3-2-2, 1560 sq ft, vaulted ceiling, blinds, fans, appl. fenced, avail-5/1, \$825/mo plus dep. x31826 or 480-9436.

Cars & Trucks

'89 Chevy Cavalier, 2 DR, A/C, AM/FM, 23K mi, ex cond, \$4.8K. 488-8493.

'90 Isuzu Trooper, 4x4, 4 DR, V-6, 5-spd,

A/C, tint, warr, 15K mi, ex cond, \$13,450. 335-8527 or 333-2373. '90 Dodge Dakota convert, loaded, alarm sys,

rust protect, svc contr, 13K mi, ex cond, \$13.5 OBO. x49744 or 333-9742. '82 Dodge Charger, 2.2, new tires, good

brakes, good cond, \$1,150. 470-6921. '88 Chrysler Le Baron, conv, turbo, auto,

leather int, loaded, low mi, \$7.5K. 748-8739. '83 Ford Ranger, Ig bed, V-6, auto, A/C, class

III hitch, \$2.5K. Grady, 485-4592. '81 Chevy SWB truck, A/C, AM/FM/cass, rebuilt 350, new paint, carpet, good cond. 333-

'81 Toyota Tercel SR5, 5-spd, A/C, AM/FM/cass stereo, good cond, \$1.2K. 335-2377 or 474-3346.

'79 Buick Electra, hdtop, V-8/5.7-L, 2 DR, loaded, rebuilt trans, new brakes, water pump, batt, no rust, \$1.8K OBO. 332-2451.

'85 Chevy Cavalier, 4 cyl/2.0L, auto, new tires, brakes, 75K mi, ex cond, \$2.4K. 488-5522. '89 Toyota Corolla SR5, looks like GTS, loaded, 55K mi, ex cond, \$7.5K. Joel, 992-4259.

'82 Vanagon L diesel camper, rebuilt, remodel, 10K new mi, \$7.8K. Mike, 283-5890 or 868-

'79 Datsun 280ZX, new paint, 92K mi, \$2.2K. x37892 or 333-9518.

'89 Toyota Celica GTS, loaded, sun roof, gray, 43K mi, ex cond, \$8.5K. 332-9650. '77 Chev Monte Carlo, new trans, radio/tape

deck, runs good, \$500 OBO. 998-8015. '53 Chev P/U, orig, \$1.9 OBO. 534-6750. '86 Ford Taurus, 3.0L, auto, OD, loaded, tow

bar, \$2.8K. 474-4742. '79 Chev Monte Carlo, needs work, body ok, \$400 OBO. Susan or Eddie, x32858 or 534-

'81 Datsun 200SX, A/C, P/S, P/B, P/W, ex mileage, good cond, \$795 OBO. x38794 or 286-

'89 Honda Accord DX, 3 DR, red, 5 spd, A/C, AM/FM, 31K mi, ex cond, \$7.8K. 335-1378.

'82 Nissan 280ZX, turbo, auto, bronze, T-top, A/C, AM/FM, 62K mi, ex cond, \$4.2K. 335-

Boats & Planes

'83 Renken 18 sailboat, roller furling jib, 4hp aux, galv trlr, sleeps 4, good cond, \$3.4K. 339-3476.

'89 Invader, 18' Open Bowl, 10-130hp Mercury, trlr, top, stor cover, \$8K OBO. 994-

'90 Liberator Jet 21' boat w/trlr, ex cond, \$14K, 426-5866.

22' Aurora sailboat w/fixed keel, 3hp, lg shaft O/B, \$1.5. Cindy, 527-8699.
'74 Tri-hull 17' boat, windshield walk thru,

115hp Evinrude, 40mph, trlr, \$1250. Mark, x36193 or 480-8918. 17' Bayliner, '90 Capri w/50hp Force Escort trir, less than 18 hrs, garaged, \$5K. Grady, 485-

17' Glastron, 65hp Johnson, rebuilt trir, \$1.2 OBO; 14' Lido sailboat, trlr, 2 sets of sails, \$600.

554-5067 25' McGregor sailboat, trlr, radio, eng, \$5.5K; scuba gear, Tabata Liberator bladderless BC, \$200; Sherwood Oasis reg, Sherwood Octo, full gauges, elec bottom timer, compass, \$425 or \$575/set. Kevin Walters, 486-6411 or 480-0828.

14' Texas Star sloop w/trlr, jib, mainsail, light blue, \$400. Greg, x32258 or 326-2807.

'73 Honda CB500 4, header, new batt, red

helmet, 12K orig mi., \$500 OBO. x34754 or

BMX custom racing bicycle, Diamond Back Senior Pro, ex cond, \$200. 482-6773. '88 Suzuki Intruder VS750, 7,3K mi, ex cond.

was \$3150, BO. 283-0438 or 480-5079. '82 Honda 450 Nighthawk, new tires, batt,

13K mi, ex cond. \$800, x32259 or 922-1703. '83 Honda Shadow, 750cc, wineberry red,

garaged, new seals, access, ex cond, \$2K. x30277 or 332-7092.

Audiovisual & Computers

IBM clone, 386/20, 2M RAM, 40M HD, 1.2/1.44M FD, Seiko VGA moni, \$1K OBO. Schroeder, 280-1579 or 482-5536.

IBM 8512 color VGA display w/stand, \$100 OBO. 286-3502. Macintosh SE, 1MB, two 800K DD, Apple

kybd, ImageWriter II, cables, documents, orig boxes, \$900. x45359 or 326-4679. 8088 portable w/20MB HD, \$300; 386 portable w/20MB HD, \$1K; MKS LEX/YACC, \$100; BTRIEVE, \$75. Bill, 482-8494.

Magnavox VHS-HQ full sz camcorder, incl 2 2-hr batt, ex cond, \$395. James, x38495 or 554-

MacIntosh SW, Fortran, MactronPlus, \$199; Think C5.0, \$125; Prototyper 3.0, \$95; MS Works 2.0, \$40; Claris FileMaker Pro, \$125, all w/future upgrade rights; HP-16C programmer's calculator, \$50. Peter, x31624 or 487-0290.

Photographic

2929.

Mamiya C-330 Professional-f, med format camera, 80mm and 13mm tens, Prism Finder, magnifier, flash bracket, metal case, \$750. Ignacio, 282-4818 or 486-1078.

Canon 35mm FTb SLR w/50mm f1.4 FD lens, shade, FD lens: 28mm f3.5, 35mm f2.0, 135mm f2.5, 200mm f4.0, 100 to 200mm 200m f5.6, lens shades for 35mm and 28mm, access: booster, angle finner, ext tube M, release cable, speciality lens: Px1 close-up, Varicross, 2x Multiplier, UV and skylight filters, 3-lens camera field case, \$1.2 OBO. Mike, 335-8549 or 280-

Pets & Livestock

AKC Lab pups, born 3-13-92, blk & yellow, sire & dam hunters, FTC bloodline, dewclaws removed, shots, \$250. 244-9682.

Easter bunnies, Mini-Lops and Fuzzy Lops, \$20 to \$40. Galo, 554-6200.

Baby cockatiels, hand-fed. Linda, 484-7834.

Musical Instruments Orig Fender Jazz bass, ex cond, \$350. Mark Irving, x37353 or 286-3515.

Household Early Amer on sz sleeper sofa, fall colors, ex cond, \$150; 2 rust colored swivel rockers, good

cond, \$30/ea or both \$50. Alex, 992-3876. Matchino sofa/chair, light blue floral pattern. ex cond, \$200. Ignacio, 282-4818 or 486-1078. Six piece solid pine kg sz bkcs waterbed BR

suite, 3 sets sheets, \$500, 485-1931 King sz waterbed, motion-control matt. oak hdbd/frame, ex cond, \$300. David, 488-4207.

King waterbed matt, ex cond. \$50, 286-3502. Collectible 4-pc French Provincial BR set, burled wainut and inlay, circa 1938, \$1995; colonial Stratolounger recliner, \$95; 15" B/W TV, \$40, 488-4487 Rattan LR furniture, couch, love seat,

coffee/end table, ex cond, \$375. Allan, 472-Solid oak kg sz waterbed, 2 yrs old, built-in drwrs, incl pad, ex cond, \$250, 996-1614.

Executive desk on casters, 3' x 6', good cond, was \$250, now \$60, 331-0164. White brass day bed w/pop-up trundle, \$200;

rattan Bentwood style rocker, \$50. Kandy x37256 or 482-2750.

Pioneer glass front stereo cabinet, ex cond, \$20; old steel milk can, sandblasted and paint ed, \$35; blk box computer for '78 Datsun 280Z, \$25. John H. x31114, or 486-0898. GE color TV, 13 yrs old, good cond, \$50; love

seat sofa bed, opens to qn sz, beige, good cond, \$125. 486-4855. Small antique corner hutch, \$100; contemporary blue sofa/love seat, \$225; authentic northern bow-n-arrow by Red Hawk, \$250, 332-9650.

Wicker rm divider, \$50; rocker recliner, \$150; solid cherrywood coffee table/end tables, \$100. x31279. Sideboard ext table, darkwood, extends 84"

to 125". 333-9733. Two piece sectional sofa, neutral tone, modern style, \$100; used solid oak plant flooring, approx 200 sq ft, \$50. Greg, x32258 or 326

2807. Round table with extra leaf. Approx. 36" circular, wood finish, \$20. Kari, x38649.

Want rider(s) for carpool from Southwest Alief

to CL/JSC. James, 333-6458. Want nonsmoking roommate to share 2-2 house near water, near South Shore, \$275/mo plus 1/2 util. John, 538-3320.

Want roommate to share 2-2 condo, El Dorado Way, own room & bath, \$250/mo. Kyle,

280-4422 or 286-3628. Want nonsmoking female roommate to share

home in LC. BR furn or unfurn. 332-8743. Want witness to automobile accident involvng Mustang and Ford station wagon, Friday, 3/27/92 at intersection of FM2351 and northbound access road of I45. Bob. x32437.

Want twin sz maple bed w/bkc hdbd. Betty x30280 or 480-3424.

Want multi-drwr tool chest with/without wheels or Ig multi-drwr tool box. James, 333-

Want O/B motor for sm sailboat, light 15" to

18" shaft, 2-4hp. Larry, 283-5337 or 333-3142. Want broken VCR's. Walter, 559-2764. Want patches, old, unique, rare, payload, experiment, division, any NASA/space related.

280-0647. Want roommate for Seabrook home, waterview, secluded, prefer female w/child, \$350, bills pd. 333-6821 or 474-9155

Want Aquaterra Prizm kayaks and gear. Dennis x34599 or 280-0471.

Want Little Tikes treehouse w/slide and Little Tikes activity gym. Sharon, x38505 or 480-

Miscellaneous

New Trivial Pursuit master game, adult level, \$13, 488-4487.

Wilson golf clubs, 2-9, putter, 1, 3, and 4 woods, bag, \$100; propane gas grill, \$45. Dennis, x31966

Remington model 7400, 30.06 auto-loader rifle w/3 x 12 raised Tasco scope, case and sling incl. ex cond, \$425. Tim, x39289 or 487-

Rowing mach, carpet shampoo mach, sofa, typewriter. 488-3191. Father and son Remington 1100 mod choke,

shotguns, 12ga and 20ga, 2-3/4 shells, semiauto, \$425/set. Tomas, 481-1627.

Lawnboy self-propelled mower w/grass catcher, moving, good cond, \$75. Betty, x37242 or 943-7221.

14K gold med sz Figaro bracelet, was \$350, now \$250. 337-4440. New barbeque smoker, 20' x 30' smoker unit w/20' x 18' offset firebox, 1/4" steel w/diamond

punched steel gratings, wood smoking or charcoal grilling in both units, you pick-up, was \$450, now \$250. Jim, x31553 or 482-7758.

Fisher Price radio baby moni w/pwr supply, dual channel, \$20; Roadmaster exer bike, good cond, \$20. 280-0647.

Royal Traveler luggage, 3-pc set, bright pink color, \$75. James, x3666 or 487-5730. Rockwell 10" table saw, contractor, belt drive, cast-iron table w/2 wings, steel legs, \$150.

Doug, x32860 or 486-7412. Bruno Magli shoes, sz 7-1/2 to 8, name brand clothes for work/dress, sz 6 to 8. 333-3321

Two piece leather suits, hot shorts for ladies and jackets for men. 981-1635. Mallory dual point distrib for sm block Ford, \$40. James, 333-6367.

'82 Layton 23' travel trlr, w/2 yr old 20' awning, sleeps six, storage, no leaks, \$3995. James, x38495 or 554-2929.

Pear-shaped 52 pt diamond on 7mm flat gold band, G/H color, VS1 clarity, \$1K. 996-9415. Round diamond solitaire, .75 carat, JSI color/quality, was \$4K, now \$2K OBO. Peter,

244-5578 or 286-8346. 20-gal lg aquarium, \$20. 333-2830.

Sofa and love seat, blue/light brwn/off-wht, good cond, \$175; ladies Judy Rankin full set of golf clubs, bag, balls, tees, sz 8 shoes, \$250.

Dacor soft BC vest w/hard back, \$150; fins, \$50; wrist compass, \$10; weight belt, \$5, ex cond. x34741.

Cannon Typestar 110 typewriter, \$100. 486-7111.

Gilson 16hp riding mower, 44" cut, \$325; golf clubs w/bag, \$75; 2 brwn vinyl couches, 5' lg, \$50/ea OBO. 339-3476. Beta VCR, women's 10-spd bike, Ig

microwave, hi-fi stereo. Tim, 996-9191. One-way airline ticket to Las Vegas, BO. Keith, x38952 or 333-2655.

Air purifier, was \$199.50, BO. 283-0438 or 480-5079. Electric motors, 1/4, 1/3, 1/2, 1hp, coolant pump with 1/4hp motor, \$30; 3 Jaw lathe chuck,

6" dia, 1-1/2 x 8 thds/in bore, \$85; high spd motor w/grinder/polisher arbor, \$40. 921-721 Small barometer w/temp x humid, \$10; Panasonic computer w/30MB HD, 2 FD, \$700: mink stole, 3/4 length, ex cond, \$950; lighted

flashing sign, \$35; lg Peruvian rug/hanging, \$95;

2 Inca God statues, 1 lg, \$85/both. 488-5564.

Ladies blk suede boots, sz 10. Kari, x38649. New 1/2" carpet pad, 15 sq yds, \$10; single gal paint, greens/brwns, \$2.00/gal; 10-key, \$10, child's car seat, \$20, motorcycle truck, \$30; 1/2" shop plywood, 6 sheets, \$6/ea; misc new/used plywood sections, \$20/all; 4 x 4's, 2 x 4's, 3 of ea; 6 timbers, creosoted telephone poles, 5' x 7 sections. 339-1337.

Olympus 35mm camera w/80-205 zoom lens, auto flash, case, access, \$200; new front chrome bumper for Ford PU, \$200; rear hitch, receiver, for Chevy PU, \$30; tow-bar, \$40; elec squirrel cage blowers, \$35/ea; new elec heater, \$35, 484-8241.

Daniel Goldin

NASA's ninth administrator shares his perceptions on where the space agency is and where it's going

[Editor's note: The following is the abridged text of NASA Administrator Daniel S. Goldin's first address to employees, given April 1, 1992.]

By Daniel S. Goldin

ess than 30 minutes ago I met with the President and he congratulated me on my confirmation to be the ninth administrator of I NASA. I can't tell you what an honor this is for me and how happy I am to come back home

Over 30 years ago I sat down with my father and we filled out an application for the Lewis Research Center that started my career in civil space, the civil space program and my membership on the NASA team. Never did 1 think then that some day the President of the United States would bestow upon me the honor of being his nominee to lead the National Aeronautics and Space Administration, the world's number one leader in space technology. Today, that boyhood dream is now a reality and I'm just trying to soak it all in. It's just an unbelievable feeling.

I asked Aaron (Cohen) to set this assemblage up and to electronically hook us all together so I could talk to you, the men and women of NASA who really make the institution what it is. It's not a set of buildings, it's not a set of facilities, it's the human beings, the brilliance, the genius, the drive that make NASA what it is.

Thirty years ago I responded to John Kennedy's call for human space exploration and I dedicated my life to the space business. I have had the honor of designing and building, developing, testing and launching some of the most complex space systems, including space science, spacecraft, space communication and military space systems. And not surprisingly, as a space cadet, I enthusiastically responded to the President's call to lead our nation's exploration into space. I believe in America and I strongly and deeply believe in the commitment to public service. My whole professional life has been dedicated to building and expanding America's technology base in order to improve the quality of life, enhance the competitive posture of America,

explore the unknown and defend our nation. Today is the new zenith of my career, but I'm convinced that even better things are going to happen, because NASA has been constantly improving our quality of life and understanding of the planet we live on and the universe we inhabit since NASA's inception only 34 years ago. We've only just begun.

I hold NASA and the NASA team in unbelievably high esteem. To me NASA is the standard by which all other nations of the world measure their space programs. With your help I intend to work with you to raise our standard even higher. And with your help I know that we can do that thanks to the great foundation that has been put in place by people like Jim Webb, Bob Frosch, Jim Beggs, Jim Fletcher and especially, Admiral Richard Truly.

To me Dick Truly is an American hero. Not just because he was a space shuttle astronaut who flew two very successful missions, but because he was willing to come back to the agency and the people that he loved so dearly when they were down in the aftermath of the Challenger disaster. Dick Truly helped rebuild the morale of NASA, the management team, the space shuttle program and the public's perception of NASA. He initiated a continuous improvement program, an aggressive educational outreach program and an equal opportunity program and I wish him Godspeed in his new endeavors.

A lot has happened within NASA and outside NASA in recent years which has greatly increased our challenges. As I stand here talking to you today the Space Shuttle Atlantis crew is bringing their successful mission, the first human expedition to planet earth in space, to a successful conclusion. Another challenge has been met.

Let me take a moment to tell you briefly my personal view of NASA. NASA is a symbol of America's competitive economic spirit, a world technological leader by desire to explore and discover and our pursuit of excellence. NASA is an investment in America's future and I underline the word investment. And for 1 percent of the federal budget it's one of the few things we're doing as a society to worry about what's going to happen to our great, great grandchildren, our children's children's children. Instead of taking, NASA is really putting in. We ought to have a program that will grab into those hearts of the Americans and not have to justify an

expenditure. We ought to have them patting us on the back for the investment we're making in

The American taxpayers have made a significant investment in NASA and they expect value for their investment. We have given them a high return on their investment but in this competitive environment, it is necessary for us to work together as a team to give them more value and an even better return on their investment. The American taxpayers expect it.

We need to do a better job of clearly depicting the relationship of the space program to Americans' everyday lives, to what they do, along with how they do it and why they do it and why we do it - in the workplace, the classroom, the home and the marketplaces of today and tomorrow. We must communicate how NASA will improve the American taxpayer's quality of life. It's a real challenge but I believe we can meet it.

NASA today stands ready to address some of the key challenges that face the America of tomorrow. Our cutting edge technology programs will increase our future competitiveness. Our science programs will help us better understand the universe we live in and the origin of life. The Mission to Planet Earth will help us better understand and care for our fragile planet. Our life sciences and microgravity research programs could lead to even greater contributions to medical technology, and our aeronautics program will help the nation to push the edge of technology and maintain one of the strongest export markets that we have. And our technological programs, meanwhile, could be the

deciding factor in whether or not the U.S. is competitive in the high technology market place of and tomorrow could have a real impact on the first Martians, those young children sitting in America's classrooms today.

If we are to

respond to the challenges of today and if we are to successfully implement our programs, it will take teamwork and it will take extra effort. Today I would like to ask all of you, every employee in NASA to set clear goals for ourselves. Goals that go beyond the norm, not goals that are beyond what is achievable but goals that will cause you to stretch, to reach a little further and a little higher than you have in the past. I'm convinced with your help, NASA will be recognized as the standard for quality, innovation and management techniques. NASA will be recognized as the type of organization that the American public will look to and support as we strive to break down the barriers to space exploration, understanding the universe, understanding the planet Earth, and as we compete in the market place of high technology.

I do not see my challenge as a new administrator to get good people, we already have them. My challenge is to convince you that you can do more, do it a little better, do it for less, if we use more innovative management techniques, and if we fully utilize the individual capabilities of each and every NASA employee. My job is not to tell you what to do, not to direct control, you know what to do. My goal is to empower all of you to do it.

Therefore, for the next few months I intend to do a lot of listening and not talking. To listen to the people at NASA headquarters and the people in all the centers, the managers and the employees, to find out what your aspirations are for NASA, what your concerns are, what are your suggestions you have as to how we can do our jobs even better. As I meet with you, I will be interested in hearing your personal views and in trying to get a better appreciation for what we should start doing at NASA, what we should stop doing at NASA, and what we should continue doing at NASA. I will listen, and as we go along I will give you feedback to tell you what the general temperature and sense of the NASA system is, what's the sense of our culture.

Over the past five years in my prior job, I've become a true believer in the value of total quality management to the success and efficient operation of an organization. Total quality management has to start at the very top, and that's with me now, and I am personally and totally committed to that philosophy. I believe deeply if you can't measure it you can't

manage it, and I intend to bring this philosophy to NASA and to further develop and refine our continuous improvement activities, to establish clearly defined goals and objectives and to empower the employees to meet these goals.

I intend to reassess the long-term vision that has been developed, and with your direct input, formulate a vision with input also from our stake holders too. I believe in participatory management and I plead and beg each of you to participate.

And let me just digress from the written words here and say, when you have a concern feel free that NASA is an open system to express those concerns. If you have an idea, before you go take that idea forward, why don't you test it, do some peer review, five of your peers. If you make it through that peer review, and a consensus builds, take it forward and don't let anybody in the organization stop you, go to your boss, talk about it, see if there's some consensus there, take it as high in the organization as it has to go, and if it has to come to my office, I'll stay night and day, I'll stay weekends but I plan to listen. And I fully expect each of your bosses to encourage you to take it forward and not to stop you. NASA is an open book and I deeply and firmly believe it from the bottom of my heart and I believe that each of you believes that, so I really, truly want you to participate.

Lintend to measure our performance. I hope each of you wants to measure your own performance as well as that of our contractors and their subcontractors. And we will do this on an annual basis to establish how well we're addressing continuous improve-

ment. Each of you, why don't you go home tonight and write down five areas where you think you could measure how well you're doing. It makes no difference what it is, but it will get you started in the process of measuring how well you're doing. I believe that the successful implementa-

tion of this integrated planning process will help justify our programs to the Congress. It will also help enlist the public, contractor, international, university support and lift the spirit and pride of America in the

I have nothing but the highest regard for each and every individual that I've been associated with in NASA. Along that line, I have asked Aaron Cohen of the Johnson Space Center and Roy Estes of the Stennis Space Center to stay on at headquarters to assist in the transition. Aaron and Roy are extremely knowledgeable about NASA and I am confident their prudent guidance will help us meet our existing commitments as we explore new opportunities. In addition to which, there is a tremendous personal stress on these two gentlemen as their families are back home and they have to commute back and forth. I think we all ought to get behind them and tell then we really want them to stay and help make the transition.

As we end the first hundred years of powered flight and the first 35 years of space flight, America must prepare for a new century in which aeronautics and space will play an even greater role in our national and world economy. NASA must continue it's leadership in the mastery of both air and space. NASA must push the limits to go to the edges of technology to enable a successful execution of our missions and NASA must continue to transfer these technologies into the private sector, not hold it to the chest, but really reach out to ensure that America is competitive in the world marketplace.

I believe that we have four core program areas at NASA. First, we look inward to our own planet to better understand the delicate workings of our fragile Earth.

Next, NASA looks outward to the heavens to explore our own solar system and beyond to better understand our place in the universe and the origins of life.

Third, space exploration takes the nation to the leading edge of technology and hopefully will find new opportunity for future generations, just as the Europeans set out to the new world by going west in silly little ships. We have to get ready for this great journey and we must understand, most importantly, the prolonged interaction of human stays in the hos-

tile space environment, and, out of necessity, that's going to demand permanent human presence in space by the end of the decade.

And finally, we have to perform world class aeronautics research. The American aeronautics industry is counting on us and let's ask ourselves, have we really lived up to the expectations of American aeronautics? America needs to uplift its place in the technological world and NASA is the place where it's going to happen if we refocus our thinking and commit ourselves to what the need is. The need is not to compete with other agencies to get money. The need is not to write technical reports. The need is not to just go play in the laboratory, but the need is to help take the American aeronautics industry and lift it to new heights so that America is supreme in

These four core programs are NASA's heritage, it's our challenge, and anytime you have a challenge, the challenge is one human being's problem, one organization's problem, and another organization's opportunity. For NASA I view these challenges as an opportunity.

As the new leader at NASA I am committed to working with you to make NASA the world standard in each of these areas. I'm committed to working with you to meet the President's goal of deploying Space Station Freedom and Mission to Planet Earth by the end of this decade, to maintain and improve the reliability and quality and efficiency of the space shuttle as long as we need it to support human space activities and to maintain our world-class status in space and aeronautics technologies.

The space shuttle will continue to be the nation's principal vehicle for human space travel at least for the next decade or two. I am deeply committed to do everything within our power to maintain and improve the safety and reliability of this vehicle. We can't go after the next widgit, we can't go after the next nice thing to do and forget about a commitment we've already made to the American public. We cannot steal money from the space shuttle to go do other things we want to do. What we have to do is figure out how we get the space shuttle as reliable as possible, as safe as possible, as efficient as possible, and then and only then, do we think about where we're going to go with other things.

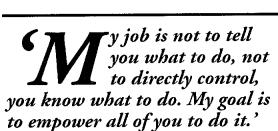
And the same holds for every other commitment we have. We can't go away from today's commitment and say well, we have this program and that program but it's more fun to go here or go there. The most effective way that NASA could be gaining credibility with the American taxpayer is to perform on what we said we were going to do, when we said we were going to do it, and how we said we were going to do it and for how much we said we were going to do it.

As important as the programmatic initiatives, I am committed to a work force that reflects the cultural diversity of America, and I am determined NASA's programs will inspire young people to pursue careers in mathematics, science and engineering and mature members of the work force to broaden their skills so they are equipped for the competitive job market of tomorrow.

These are challenging times. These are tough times, but I know the NASA team is well conditioned and ready to respond to these challenges and continue our journey where no human or robot has gone before. Are you ready to take this challenge?

As I get ready to visit with employees at Headquarters and the centers, I would ask each element of NASA and our contractor teams to assess your current programs and to see what each one of us, each one of you can do to reduce costs. We cannot have a cycle where we continually have cost growth on programs. We can't have people playing games saying my program is more important than the other program. We have to, as a collective team, decide what we ought to do and what we should not do, and to get to that point each of us has to make some sacrifices, but never, never, never give up the quality and reliability of the systems we have.

I cannot begin to tell you how happy I am to be here and how much I look forward to working with you to turn the dreams of today into the realities of tomorrow. I look forward to meeting with each and every one of you individually and turning the challenges of today into new opportunities for NASA, the NASA family, the American public and the peoples of the world. I would like to, in advance, thank you for your support and I want to encourage you "carpe diem"— seize the day. 🗆



— NASA Administrator Daniel Goldin

Employees who are away to get help staying in touch

plans to make it easier for employees who are away from the center for long periods to stay in touch with what's going on here.

The new service will take the form of a single point of contact for all questions from employees who are away on developmental assignments or extended tours of duty.

"We envision this service as not

MOD grants to fund research at black colleges

Two historically black universities are receiving special research grants from the Mission Operations Directorate to the tune of \$450,000 this fiscal year.

Prairie View A&M University and Southern University are the recipients of MOD's grants in an effort to help provide a pool of talented, experienced minority researchers to support JSC's evolving mission objectives and flight projects.

At Southern University, the grant will assist in a study of the Clohessy-Wiltshire equation accuracy and an enhancement of orthogonal braking techniques. Richard T. Gavin of the Flight Design and Dynamics Division is the MOD project leader.

At Prairie View, the money will be used to investigation the automation of shuttle flight software regression testing. Michael P. DeMasie from the Reconfiguration Division is the MOD project leader.

MOD, which initiated the effort, also will provide the necessary hardware, software and consulting necessary for the faculty and students to accomplish the tasks.

James Shannon, assistant director of MOD, worked directly with the two universities to identify the

Last year, JSC awarded grants in the amount of \$1.3 million through the Equal Opportunities Programs

Endeavour on track

(Continued from Page 1)

Endeavour vehicle manager at

While the official launch date will not be decided until the conclusion of next week's flight readiness review, the apparently trouble-free replacement of the engines keeps the target date of May 5 on track.

Launch could occur between 7:03 and 7:56 p.m. CDT May 5. Landing is scheduled for late afternoon California time on May 12.

Routine pre-flight processing continues despite the engine removal and replacement with no surprises found in the plumbing inspections following the test firing, Crockett said. If all continues to go smoothly, the engine frequency response test will occur Wednesday followed by the standard helium signature leak checks Thursday and Friday.

Crew training moved into the final stretch today with the traditional terminal countdown demonstration

Commander Dan Brandenstein and his crew - Pilot Kevin Chilton and Mission Specialists Bruce Melnick, Pierre Thuot, Rick Hieb, Kathy Thornton and Tom Akers traveled to KSC for the test to exercise the launch team in Florida and the flight control team here.

The crew also practices egress training at the launch pad and fit checks its helmets, gloves and launch/entry suits while in Florida.

The Intelsat booster motor and the hardware supporting the space station assembly techniques space walks were installed in the payload bay Tuesday.

The engines removed from Endeavour will go through routine turnaround inspections in the engine shop at KSC as do all engines following a mission, said Terri Stowe, lead Booster Officer for STS-49. The only difference will be the removal of the pump and the pre-burner face plate for a more detailed inspection.

JSC's Human Resources Office only a focal point for people who are already gone on some sort of developmental assignment, but as a clearinghouse for people contemplating any type of extended leave," said James Sturm, the personnel management specialist who will be that point of contact.

> While employees are away, they can call Sturm at x33085 and get answers to questions about travel

expenses, allowances, health or life insurance benefits or any other personnel matter. Sturm also said he will send out packages of Space News Roundups, announcements and open season information on a monthly basis. He'll also make sure that any time-sensitive issues or announcements are passed along quickly.

"We hope that by having a single point of contact on the hows and whys of extended leave, employees won't feel so 'abandoned," Sturm said. "We also envision this as a way to better support both the center's and the employee's career develop-

As employees explore career development opportunities away from JSC, Sturm will be able to discuss the requirements and steps to get there, the center issues associated with their particular choices and the potential benefits of the various development opportunities.

Sturm also will be available to ease the transition back to JSC when the employees return. He will contact each employee about four months before his or her return to discuss issues such as travel allowances and timing, their reentry into JSC organizations and any concerns or questions.



TENNIS TOUR-In town for the Houston stop on the professional women's tennis tour, three players take time for a tour of the space shuttle trainer with STS-39 Pilot Blaine Hammond. From left are Gigi Fernandez, Jill Hetherington and Kathy Rinaldi. In addition to the shuttle mockup in Bldg. 9, the players wre briefed in Mission Control and at the Space Station mockup facility.

JSC to observe National Secretaries Week

In recognition of the significant contributions of JSC's secretarial staff, the Federal Women's Program is planning two special ceremonies Monday in Teague Auditorium.

Diana Peterson, president of the Clear Lake/NASA Area Chapter of Professional Secretaries International, will speak about her organization and the role of secretaries at JSC. She is the secretary for the deputy director of Space and Life Sciences.

Each secretary and clerk will receive a special memento during the National Secretaries Week ceremonies, which will be at 9 a.m. and 2 p.m. Tickets will be distributed to each directorate or program office.

For more information, contact Federal Women's Program Manager Pam Adams at

Starting Monday, digits will punch additional digits

By Kari Fluegel

Calling long distance will take slightly longer starting Monday when the governmentwide telephone system is converted from seven-digit to 10-digit dial-

Effective April 20, callers will be required to dial 87 plus the three-digit area code plus the seven-digit number - essentially the same procedure that is used when making non-Federal Telephone System long-distance calls.

Users on travel or away from the office may place calls with an FTS2000 card. Dial 1-800-OFFNET4. followed at the tone by the 10-digit number and FTS2000 authorization code.

Realizing that no change of this magnitude occurs smoothly, the General Services Administration, which operates the FTS system, has created a grace period. Through May 19, callers may use either the old seven-digit or new 10-digit system. After that time, those using a seven-digit number will reach a recording instructing them to consult their directory.

The principal reason for the grace period, according to the GSA, is to allow the conversion of numbers used in automatic processes, such as fax machine auto-dial sequences or computer telecommunications auto-logon sequences.

International long-distance calls from JSC phones can by made by dialing 9 plus 011 followed by the country code, city code and number. City codes are not required for all countries.

International long distance calls placed while on travel or away from the office require a governmentissued AT&T International Card. Calls also can be reimbursed on a travel voucher.

For more information about the conversion, contact the ISD Help Desk at x34800.

JSC individuals, teams earn Honor Awards

(Continued from Page 1)

NASA Space Flight Medals went to James C. Adamson, Jay Apt, James P. Bagian, Micael A. Baker, John E. Blaha, Guion S. Bluford Jr., Vance D. Brand, Mark N. Brown, James F. Buchli, Kenneth D. Cameron, Michael L. Coats, Richard O. Covey, John O. Creighton, Frank L. Culbertson Jr., Samuel T. Durrance, F. Andrew Gaffney, Guy S. Gardner, Charles D. Gemar, Linda M. Godwin, Sidney M. Gutierrez, L. Blaine Hammond, Gregory J. Harbaugh, Richard Hieb, Jeffery A. Hoffman, Millie Hughes-Fulford, Tamara E. Jernigan, John M. Lounge, G. David Low, Shannon W. Lucid, Carl J. Meade, Donald R. McMonagle, Steven R. Nagel, Bryan D. O'Connor, Ronald A. Parise, Robert A.R. Parker, Kenneth S. Reightler, Jerry L. Ross, M. Rhea Seddon, Robert C. Springer and C. Lacy Veach.

Certificates of Appreciation were presented to Manuel Avila Jr., Floyd I. Booker, Wilber R. Boykin, Melvin C. Buderer, Jeffrey A.

Cardenas, Charles R. Davis, William G. Davis, Vanessa S. Ellerbe, Walter D. Hanby, Henry V. Huber, Elizabeth M. Kalla, Patrick E. Lafferty, Robert L. Patterson, Angel L. Plaza, David R. Proctor, Donald M. Schmalholz, Albert V. Shannon Jr., Donald J. Stilwell, J. Britton Walters, John B. Westover, David R. White and William J. Young.

Public Service Medals were given to Ted Clauss, Rockwell; Peter Chadwick, SPAR Aerospace; Helen C. Harris, Hernandez Engineering; Roy A. Portier (posthumously), GE Government Services; Gregory A. Ray, Rockwell; Gloria Salinas, GE Government Services; William H. Shumate, Lockheed Engineering and Science Co.; and B. J. Thomas. IBM.

Group Achievement Awards went to the Astronaut Appearance Group, Automated Computer Operations Project Support Team, Automated Data Processing Equipment Acquisition Processes Tiger Team, Commercial Middeck Aug-

mentation Module Source Evaluation Board, Crew Transport Vehicle Development and Operations Team, Day-of-Launch I-Load Update Development Team, Extravehicular Development Flight Experiment Team, Extravehicular Activity Retriever Development Team, EO22 Experiment Team, E066 Cardiovascular Deconditioning Experiment Team, E072 Vestibular Experiments Team, E198 Pulmonary Function During Weightlessness Experiment Team, E294 Cardiovascular Adaptation to Zero Gravity Experiment Team, Gaseous Oxygen Fixed Orifice Flow Control Valve Team, Global Positioning System Tracking Team, High Resolution Electronic Still Camera First Flight Development Team, Hypervelocity Impact Laboratory and Analysis Team, JSC IADP/OADP Trail Boss Initiative, Man Tended Capability Phase Review Data Package Development Team, NAS 9-14000, Schedule B to Schedule A Transfer Team, Onboard Navigation Expert

System Team, Orbiter Thruster Plug Improvement Team, Program Compliance Assurance and Status System Software Development Team, Shuttle Operation and Maintenance Requirements and Specifications Turnaround Reduction Team, Six-Degree-of-Freedom Positioner Team, Space Environment Definition Team - Orbital Debris, Space Environment Definition Team - Radiation, Spacelab Life Sciences-1 Metabolic Experiments Team, Space Operations, Applications and Research Symposium Team, Space Shuttle System Safety Review Panel, Space Station Control Center Project Team, Space Station Freedom Program Central Software Facility/ Central Avionics Facility Study Team, Space Station Integrated Loads and Dynamics Group, T-38 Avionics Upgrade Team and UNISYS Computer Complex Consolidation Team.

The Public Service Group Achievement Award was presented to the Project Science Group.

Survey to gauge total quality gains

(Continued from Page 1) to what other organizations are doina.

The upcoming survey will help identify the progress JSC has made this past year in adopting the total quality approach, Weitz said.

JSC's Human Resources Office, which has had the experience of conducting previous culture surveys, will administer the survey. About 900 JSC employees will be asked to answer about 100 questions on how they view JSC's total quality efforts in two April 24 sessions in Teague Auditorium. Each survey session — the first at 1 p.m. and the second at 3 p.m. - will

take about 30 to 45 minutes.

Survey participants will begin receiving letters today saying that they have been chosen to participate. Selection was made through a random sample that is designed to involve a good cross-section of the work force.

Survey results are expected to be out in May or June, and will be reported in the Space News Roundun

The questionnaire is the same as one that was given to a random sample of 150 employees in February 1991, and will be compared to that survey to establish the next baseline level for total quality.

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.

Dates and Data submissions are due Wednesdays, eight working days before the desired date of publication.

EditorKelly Humphries Associate EditorKari Fluegel

Earth Day salute

(Continued from Page 1)

The expo will include exhibits by JSC's Environmental Services and Earth Observations Offices, the City of Houston, Houston Lighting & Power, Houston Zoo, U.S. Fish and Wildlife, U.S. Parks and Wildlife, Texas Wildlife Rehabilitation, Houston Canoe Club, Galveston Bay Cruising Group, the Sierra Club and the Galveston Bay Foundation.

These groups will present exhibits on water and electricity conservation at home, endangered species, local wildlife and local outdoor activities.

For more information about the Earth Day activities, call Jo Kines at x33218, or Ginger Gibson at x30596.

NASA-JSC.