

Space News Roundup

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No. 18



JSC Photo by Jack Jacob

Willie Nelson, Dolly Parton and Kenny Rogers talk to reporters in Rocket Park before the show.

Country stars shine at JSC

Rogers, Parton, Nelson greeted warmly

By Linda Copley

An audience of 12,000 JSC employees and their families enthusiastically greeted hometown entertainer Kenny Rogers and guests Dolly Parton and Willie Nelson on stage together for the first time Tuesday night in JSC's Rocket Park.

The free performance offered employees a unique evening "at work," including a spectacular sunset, comfortably cool temperatures, and relaxation under the stars while picnicking on blankets and

listening to top-notch entertainment. "It was a great family event," spectator Ronny Pierce said. "I put the baby on my shoulders to get a good look and we all just enjoyed the show."

In testament to the easy-going nature of the event, several concertgoers could be spotted sprawled on blankets, hats over faces, "meditating" (or perhaps, napping) to the comfortable strains of country sounds.

Surrounded by impressive

colored stage lighting throughout the performance and treated to a laser light show finale, the crowd became celebrities for an evening as their enthusiastic response became part of a show taped for a Kenny Rogers special scheduled to be aired on NBC at 9 p.m. CDT May 20.

Rogers chose to introduce two new songs from an upcoming album entitled "Something Inside So Strong," during the show, including his high-tech space age number

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Atlantis puts Venus probe into position

The Space Shuttle *Atlantis* and her four man, one woman crew crackled into orbit Thursday afternoon, easily meeting their deadline for getting the Magellan probe in position to begin its journey to Venus.

The launch took place at 1:47 p.m., Thursday following an abbreviated countdown that—

along with speedy repair work by Kennedy Space Center workers—prepared the shuttle for liftoff one day

earlier than was expected after last Friday's launch scrub.

Overcast skies at the return-to-launch-site runway forced the crew to wait almost an hour before taking advantage of the tail end of the 64-minute launch window. Launch Director Bob Sieck allowed the count to proceed to the T-minus 5 minute point in spite of the weather restrictions. Once those restrictions were lifted, the count proceeded without a pause.

Atlantis' crew returned to Kennedy on Tuesday following removal and replacement of one of the main engine's hydrogen recirculation pumps and a hydrogen recirculation line.

The recirculation pump experienced a short about 50 seconds before the first launch attempt, which was scrubbed at T-minus 31 seconds. Subsequently, vapor was noticed venting from the 40-inch-long hydrogen recirculation line that extends from the external tank to the orbiter.

The four-inch-diameter line is used to transfer hydrogen through the main propulsion system prior to main engine start so that the engines are

"conditioned" to the cold temperatures of the liquid hydrogen prior to launch. The process also keeps the system pressurized preventing the possible formation of gas bubbles in the system.

Upon arriving at the Shuttle Landing Facility at Kennedy for the second time, STS-30 Commander Dave

Walker told waiting family members and reporters, "Well, we're back. We're going to see if we can get it right

this time." Flanking Walker were Pilot Ron Grabe and Mission Specialists Norm Thagard, Mary Cleave and Mark Lee.

Once launched, *Atlantis'* crew was to begin preparing to deploy the Magellan spacecraft bound for Venus in an effort to map about 70 to 90 percent of the planet's surface. The 15-month voyage of the spacecraft to Venus was to have begun six hours 18 minutes after launch when it will be spring-ejected from the payload bay attached to a two-stage solid rocket motor called an inertial upper stage.

After reaching Venus, Magellan will use a synthetic aperture radar to "slice" through the thick atmosphere, transmit data back through the radar antenna to the deep space network and back to NASA's Jet Propulsion Laboratory in California for processing. The mission duration, once on station at Venus, will be 243 days—the time it takes Venus to make one revolution around the Sun.

Landing at Edwards Air Force Base, Calif., is expected at 2:43 p.m. CDT Monday.



Four JSC contractors quality finalists

Four of the eight companies selected as finalists for the 1988-89 NASA Excellence Award for Quality and Productivity are JSC contractors.

George A. Rodney, NASA associate administrator for safety, reliability, maintainability and quality assurance, announced the finalists Monday. The award recognizes NASA prime contractors, subcontractors and suppliers for outstanding achievement in quality and productivity improvement.

The JSC contractors in line for the excellence award are:

- Barrios Technology, Houston;
- Computer Sciences Corp., Houston;
- Lockheed Engineering & Sciences Co., Houston; and
- Rockwell International Corp. Space Transportation Systems Division, Downey, Calif.

Both Rockwell and Lockheed were finalists last year, when Rockwell International's Rocketdyne Division, Canoga Park, Calif., won.

"This is the first time that JSC has had half of the finalists," said T.J. Adams, chief of JSC's Quality Assu-

rance and Engineering Division. "We're betting that one of them is going to win, and maybe more than one."

Adams, who worked with Gary Johnson, JSC's representative to the review committee, said this is the first time contractors from one center have so dominated the list of finalists. He added that the committee is not bound to present the award to only one company.

The finalists were chosen through a six-month review process admin-

Please see **QUALITY**, Page 4

Viewing room, crew return times set

The Mission Control Center viewing room is currently scheduled to be open to badged JSC contract and civil service employees and their families from 4 to 9 p.m. on May 5, 6 and 7 (flight days 2, 3 and 4), based on a May 4 launch date.

Employees should wear badges when escorting family members through the visitor entrance on the northeast corner of building 30. All visitors should limit their stays during busy periods.

An STS-30 crew return ceremony will be held immediately upon arrival at Ellington Field, about seven hours after landing at Edwards Air Force Base in California. All employees are invited to join JSC Director Aaron Cohen in welcoming the crew at the usual return site at NASA Hangar 990.

Changes in the viewing room or crew return schedules will be reported on the JSC employee information service at 483-6765.

Patents no longer pending

JSC inventors receive honors for their 'important' creations

Thirteen JSC inventors who have received patents on everything from a preloaded brake disc to a zero-G coffee pot were honored Tuesday at the third annual JSC Inventors Luncheon.

"Inventors are very important to our way of life," said JSC Director Aaron Cohen, who presented the plaques to the honorees. "I'm very proud that NASA people can add to that by being creative and innovative. It's very important to the Johnson Space Center, it's very important to NASA and I can assure you it's very important to the country."

Cohen also encouraged the inven-

tors and other JSC workers to continue to come up with new inventions. "Our imagination is the limit," he said.

Ed Fein, JSC patent counsel, noted that patents certify a person has created a new kind of property.

"It is truly a special person who can create property by using his or her intellect," he said.

He added that two of the inventions honored Monday already have been licensed for commercial use and may soon be on the market.

Winners of the awards and their inventions are:

Franklin Chang-Diaz for an Infu-

sion Reactor;

Olin Graham for a Range and Range Rate System;

Christopher Lichtenberg, Paul Shores and Herbert Kobayashi for a Method and Apparatus for Measuring Distance;

Clarence J. Wesselski for a Locking Hinge and a Collet Lock Joint for Space Station Truss;

Margaret Grimaldi for a Space Station Erectable Manipulator Placement System;

Joseph Chandler for a Stirling Cycle Rotary Engine;

Frederic Dawn and Joseph Kosmo

Please see **INVENTION**, Page 4



JSC Photo by Sheri Dunnette

JSC inventors and family members received awards for their patented devices at the third annual JSC Inventors Luncheon on Tuesday.

JSC

Ticket Window

The following discount tickets are available for purchase in the Bldg. 11 Exchange Gift Store from 10 a.m. to 2 p.m. weekdays:

General Cinema (valid for one year): \$3.50 each.
AMC Theater (valid until May 31): \$3 each.
Sea-Arama Marineworld (Galveston, valid until Aug. 17, 1990): adults, \$8.75; children \$5.50.

Sea World (San Antonio, year long): adults, \$17.25; children \$14.75.
Astroworld: adults, \$14.12; children under 4, \$11.99; season pass, \$32.36. Waterworld, \$8.15.

"Blithe Spirit" (May 5, 6, 12, 8:15 p.m., Clear Creek Country Theatre): \$5.
Ramses Egyptian Art Exhibit (May 20-21, Dallas, includes transportation, overnight accommodations, lunch, breakfast, admission): \$90.

Galveston Historic Homes Tour (May 6, 7, 13 & 14, includes viewing of 10 homes, two lectures, shuttle bus): \$8.

Salt Dome Festival-Concert (June 3, West Chambers County Houston Raceway Park, includes Willie Nelson, Ray Benson, Asleep at the Wheel, Tony Perez and Chaparral): \$12.50.

JSC

Library's Latest

The following selections are now available in JSC's Technical Library, Bldg. 45, Rm. 100.

Advances in Flying Qualities, Agard.
Almanac for Computers 1989 (reference use).
Astrophysics of the Sun, H. Zirin.
Barriers to Information Transfer and Approaches Toward Their Reduction, Agard.
Before Lift Off: The Making of a Space Shuttle Crew, H.S.F. Cooper.
Calculations of Turbulent Reactive Flows, R.M.C. So.
Calibration of Stellar Ages, A.G.D. Philip.
Catalog of Infrared Observations, D.Y. Gezari.
Chemical Characterization, I. Elliot.
Communications and Networking for the IBM-PC and Compatibles, L.E. Jordan.
Course of Mathematics for Engineers and Scientists, B.H. Chirgwin.
Digital Method in Solid Rocket Motors, L.W. Way.
Dorland's Illustrated Medical Dictionary, 1980 Edition, Agard.
Economics and Technology in U.S. Space Policy: Proceedings of a Symposium, M.K. Macauley.

JSC

Swap Shop

Swap Shop ads are accepted from current and retired NASA civil service employees and on-site contractor employees. Each ad must be submitted on a separate full-sized, revised JSC Form 1452. Deadline is 5 p.m. every Friday, two weeks before the desired date of publication. Send ads to Roundup Swap Shop, Code AP3, or deliver them to the deposit box outside Rm. 147 in Bldg. 2.

Property

Sale: 60 acres, 3 mi. from Kames City, TX, on Hwy. 80, 50 mi. from San Antonio. 783-9164.
Sale: Seabrook, 3-2-2, FPL, spa w/redwood deck, recently remodel., new A/C, heater, roof, much more, corner lot on cul-de-sac, assum. at 9 7/8%, \$70,000 by owner. Richard, x30271 or 474-9334.

Lease: University Green patio home, 2 BD plus study, 2 BA, two car det. garage, 8 ft. brick privacy fence, 5 blks. from JSC, executive home in perfect shape, low 90's. Bob, 488-0397.

Rent: Lake Travis cabin, private boat dock, CA/H, fully equipped, spring/summer rental rates, \$300/\$425/wk. 326-5652.

Rent: Near Galveston beach house, 2 BR, adjacent to San Luis Pass fishing pier, lg. deck overlooking Gulf, weekends/weekly. 894-0979.

Rent: Lake Livingston, waterfront, 3-2, fully furnished, new cond., covered decks, pier, sleeps 6. 482-1582.

Lease: 1 BD condo, new carpet, refrig., FPL, lg. walk-in closet, \$325 plus \$150 dep. 282-3063.

Lease: Baybrook condo, 1-1 upstairs corner unit, new carpeted patio, W/D, refrig. w/ icemaker, covered pkg., tennis courts, pool, \$285/mo. D.J., 326-7643.

Sale: Webster, 3-2-2, new roof and carpet, gameroom, det. gar., handy to JSC, Webster med. cen., Baybrook, \$59,500. 332-5177.

Sale: Friendswood/Sun Meadow Estates, wooded lot in estab. neighborhood, cul-de-sac, bordered by stream and golf course on 2 sides, approx. 245' deep and up to 86' wide, util. on site, \$31,500. Doug, x32860 or 486-7412.

Rent: Tranquility Lake condo, 1 BD w/ appli., access to 2 pools, jogging trail, fishing, etc., \$325/\$150 dep. 554-6892.

Sale: Galveston Bay waterfront home, 3 BD, 3 BA, 6-car gar., deck, spa plus extras, gorgeous view. 334-1909.

Sale/Lease: Austin/UT condo, 1-1, near law school, assum. loan, lease, \$395/mo. J. Craig, 282-1911 or 420-2936.

Rent: Furnished 1 BD condo on Bay Area Blvd., CLC, \$300/mo. 333-3925.

Sale: Seabrook, 5 mi. from NASA, 2 BR/1 BA, hardwood floors, FPL, on 3.29 acres, secluded, \$97,500. 532-4784.

Sale: '82 14' x 72' Fleetwood Festival mobile home, 2-2, CA/H, appli., ex. cond., \$8,500, OBO. 474-4306 or (409) 925-5554.

Lease: Nassau Bay Heritage townhouse, 2 BD, 2 1/2 BA, avail. June 1. x32864 or 486-8411.

Lease: El Dorado Way condo, 1 BD, full-size W/D, FPL, covered parking, 2 balconies, ceiling fans, \$350/mo. (409) 265-3976.

Rent: Mobile home lot, \$85/mo., \$50/dep. 488-1758.

Sale: Middlebrook, 3-2-2 w/heated pool and spa, 2,050 sq. ft., contemp., spiral staircase, loft, FPL, ceiling fans, ceramic tiles, new paint, huge walk-in closets, open floor plan, \$109,900. 480-8606.

Lease: Friendswood, Forest Bend, 3-2-2, fence, patio, new paint, refrig., good location, \$495/mo. 482-6609.

Lease: Pearland/Dixie Hollow, 3-2-2, ceiling fan, inside util. room, new paint, clean, fence, \$525/mo. 482-6609.

Sale: Kemah lot on Lewis Drive, 111' x 180', \$7,300. 334-1883.

Sale: Alvin, 3-2-2 plus 2 oversize det. lg. closets, .67 acre, \$59,900, new loan, \$57,900, assum. 483-8456 or 388-1090.

Sale: Heritage Park, 3-2-2, spa, new paint, lg. deck, FPL, Stainmaster carpet, pool, tennis courts near elem. school, 10.5% assum. 996-0289 or x36619.

Sale: Alvin/Pearland, brick 3-2-2 w/workshop, quiet cul-de-sac, 1,800 sq. ft., FPL, C/A, 3/4 acre, fenced dog kennel, patio, lg. living area, w/beamed cath. ceiling, \$53K. 977-0223.

Cars & Trucks

'77 Chevy 454 26' Allegro motor home, 51K mi., good cond., \$9,000, OBO. 479-6829.

'78 Corvette, Silver Anniversary, new 2-tone silver w/oyster white int., all power, T-tops, 14K mi. on new Corvette eng., showroom cond., \$10,250, fin. avail. Richard, x30271 or 474-9334.

'76 Pontiac Firebird, P/S, P/B, tilt wheel, 350 V-8 2-barrel carb., 350 Turbo auto. x39370.

'88 Dodge Ram 50, A/C, 5-spd. x39370.
Ford F-150 PU, 9K mi. on a rebuilt 360, new dual exhaust, new tires, new paint, mag. wheels, \$1,600, OBO. 486-7495.

'79 Ford Grenada, 130K mi., good work car, some rust, \$750, OBO. Trey 484-7834 or 280-4381.

'85 Dodge Omni GLH Turbo, full roll cage, spare roller, 8 wheels, less than 1K mi. on rebuild, \$3,000, spares nego. x32949.

'78 Pontiac Bonneville, ex. cond. 333-6592 or 486-6885.

'77 Chevy Nova, low mi., 6 cyl., good eng., needs some clutch work, \$800, OBO. Scott, 485-4364.

'75 Chevy Impala Station Wagon, runs good, new tires, battery and alt., \$825. 474-2041.

'62 Mercedes Benz 190 c., good hobby car or sell for parts, rebuilt eng., new trans., leather int., \$500, OBO. Colleen, 282-2808.

'89 Suburban, midnight blue metallic, Silverado pkg., BO. Debra, x35245 or 931-1651.

'85 BMW 325E, loaded, auto., B.B.S. gold rims, stereo cass., sun roof, high mi. but ex. cond., \$11,400. 326-3044.

'78 Olds 88, runs, \$700, OBO. x33862.

'82 Dodge Omni, 2.2L, 4 dr. hatch, auto., P/S, new tires, new batt., new tags and insp., AM/FM cass., ex. cond., \$1,200. Jim, x30767 or 482-4826.

'75 Chevy Nova, \$750, OBO. 480-2893 or 488-8003.

'81 Volkswagon Dasher, diesel, 4 dr., 4-spd., A/C, 34-40mpg, clean, good cond., \$1,800. Jim McBride, 480-8101 or 337-4643.

'88 Toyota Camry Lux. Ed., loaded, sunroof, blue, 11K mi., auto. trans., P/W/locks, 6 yr./60K mi. extended warr. Ursula, 280-1500 ext. 3330 or Brian, 554-7496.

'79 MGB Ltd. Ed., 29K mi., one owner, very clean, \$4,750, will nego. 482-9468.

Cycles

'86 Honda Interceptor VFR, gear-driven cam V-4, like new, red/white/blue, garage kept, 1,300 mi., \$3,700. x31588 or 488-1326.

'85 Honda Shadow 500, very low mi., ex. cond., new batt., never wrecked, one owner, \$1,600. x38705 or 996-7736.

'79 Yamaha XS 750 Special, one owner, windjammer, AM/FM cass., new tires, lots of extras, \$1,100, OBO. Rich, x34818 or 480-8335.

Honda 650 Turbo, low mi., new tires, new batt. 334-1909.

Raleigh Rampar bike, 10-spd., 27", w/water bottle, book rack, and speedometer-odometer. Bryan, 282-3277.

Raleigh ladies 10-spd. bike, good cond., \$40,

Today

Cafeteria menu—Special: Salisbury steak. Entrees: baked scrod, broiled chicken with peach half. Soup: seafood gumbo. Vegetables: cauliflower au gratin, mixed vegetables, buttered cabbage, whipped potatoes.

Saturday

JSC picnic—The 1989 JSC Picnic, centering around the theme "Gateway to the Stars," will be from 11 a.m.-5 p.m. May 6 at the Rec Center. Activities will include a dunk tank, bingo, teen band, horse shoe tournament, Almost Anything Goes, pony rides, a petting zoo and more.

Monday

Cafeteria menu—Special: beef and macaroni. Entrees: ham steak, Parmesan steak. Soup: chicken and rice. Vegetables: green beans, carrots, au gratin potatoes.

Tuesday

Cafeteria menu—Special: Mexican dinner. Entrees: potato baked chicken, barbecue spare ribs. Soup: tomato. Vegetables: squash, ranch beans, Spanish rice, broccoli.

Wednesday

PSI meets—The Clear Lake/NASA Area Chapter of Professional Secretaries International (PSI) will meet at 5:30 p.m. May 10 at the Holiday Inn on NASA Road 1.

Richard Kohrs, deputy director of the National Space Transportation System Program, will speak at 7 p.m., followed by installation of new officers. Dinner is \$9; for reservations, call Mary Todd. For more information, call Lillian Hudson, x31032.

Cafeteria menu—Special: baked meatloaf with Creole sauce. Entrees: baked scrod, liver and onions, ham steak. Soup: seafood gumbo. Vegetables: beets, Brussels sprouts, green beans, whipped potatoes.

Thursday

Cafeteria menu—Special: smothered steak with dressing. Entrees: chicken and dumplings, corned beef with cabbage. Soup: beef and barley. Vegetables: spinach, cabbage, cauliflower au gratin, parsley potatoes.

May 12

Cafeteria menu—Special: tuna and salmon croquette. Entrees: pork chop with yam rosette, Creole baked cod. Soup: seafood gumbo. Vegetables: Brussels sprouts, green beans, buttered corn, whipped potatoes.

May 16

IEEE seminar—The IEEE Education Committee will present "The Integrated CASE Satellite Seminar: Methodology and Technology for a New Generation of Information Systems," from 8:30 a.m.-noon May 16 at the Rec Center. Cost is \$4 per

person. For more information, call x30174, 333-7029 or 333-6544.

May 18

AIAA technical symposium—The 14th annual Technical Symposium, "The Next Era in Space" cohosted by the American Institute of Aeronautics and Astronautics and the University of Houston-Clear Lake (UHCL) High Technologies Laboratory will be May 18 at UHCL. Owen Morris, president of Eagle Aerospace Inc., will be the featured speaker. For more information, call Bill Geissler, 333-6863.

May 23

BAPCO meets—The Bay Area PC Organization will meet at 7:30 p.m. May 23 at the League City Bank & Trust. For more information, call Earl Rubenstein, x34807, or Ron Waldbillig, 337-5074.

May 25

Shuttle-C users' conference—Marshall Space Flight Center and Shuttle-C contractors will host a free Shuttle-C Users' Conference May 25-26 in Huntsville, Ala. The program is designed to fully explain Shuttle-C and provide potential users an opportunity to help define needs and requirements for a heavy-lift launch system. For more information, call David Christensen, 205-721-5507.

OBO. Gail, x39838.
'83 Yamaha Seca 750, w/fairing, saddlebags and trunk, 17K mi., \$1,650 or trade for boat. Mark, x32125 or 332-0893.

Boats & Planes

19' Flying Scot sailboat, mainsail, jib, spinnaker, sails in good shape, great bay boat, centerboard allows for shallow lake sailing, w/Shoreline tilt galv. trailer, incl. boatcover and British Seagull eng., \$3,500; new Rotec Rally ultralight airplane, was \$5,000, now \$3,000, plane and boat together, \$5,000. Phil Peterson, 471-1471 or 282-3544.

'67 Piper Cherokee 140, 1700TT, 850 SMOH, Mk 12 nav/comm W/GS, King Transponder and Marker Beacon IFR cert., new paint, carpet, auto. gas STC, \$14,300. Kris, x32615 or 559-1341.

'80 Chevy 1-ton dually, Silverado, 4-spd., tool box, 2-tone, \$2,500, OBO. x38825 or 487-8018.

Windsurfer, Mistral Bermuda, complete rig, ex. cond. 488-6526.

16' Hobie Cat sailboat w/galv. trailer, racing access., good shape, BO. 488-4453.

15' Tidecraft bass fishing boat w/trailer, 50hp Mercury and Super Motorcycle trolling motor, rigged with dry storage, carpet, etc., front seat steering, \$2,000, OBO. 488-4453.

15' walk-thru, 75hp mtr., w/trailer, extras, good ski, \$2,000. 331-7074.

'72 Newman, 15 1/2' w/'77 Johnson 140hp outboard, new prop, runs great, \$1,800, OBO. Rob, x35483 or 480-2997, Bob, 481-5144.

Bass fishermen! 7 lots, 2 waterfront, Toledo Bend, all heavily wooded. 334-1909.

Audiovisual & Computers

Enable/OA integrated software pkg., incl. spreadsheet, database, graphics, word processor, communications, etc., brand new, 13-3 1/2" disks, 8 manuals, for IBM PC or compatible, \$250. Jeff, x31974 or 997-1538.

Camcorder Lite, Micro-Lux by Cool-Lux, 35 watt/4000 hr., 12VDC lamp, new, two avail, has jig for dual lamp operation, Nicad batt./charger avail, \$30/ea. or \$50/both. Andy, x31596 or 488-5534.

PC-XT clone and printer computer-256K memory, 2-360K floppy disk drives, monochrome monitor plus Hercules graphics driver-board, 1-parallel output (printer) port; printer - wide-carriage NLQ/graphics dot matrix printer, \$800. Liz, x38518 or 488-3451.

IBM-XT, like new, hard disk, graphics card, monoscreen, manuals incl., \$750. Sherry, x36795.

XT compatible computer, 640K, 30 meg hard disk, mono, fast 80286 processor, DOS 3.1, all boxes, \$900, OBO. Mike, x34378 or 486-4983.

Photographic

Underwater Nikonos camera and strobe, IVA, ex. cond., Helix 22 strobe, ready for use, \$600. Charlie, x30686 or 480-3260.

Household

Sensation waterbed, queen size, tube type, looks like standard matt., \$400. David, 282-3827 or 554-5514.

Leather look vinyl sofa, great for college student or wkld. home, good cond., \$75. x34847 or 486-4548.

RCA XL-100 color console TV, \$100. 479-1004.

Simmons studio couch, makes standard bed, white textured Naugahyde, like new, \$125. 474-5610.

Winged swivel chair, Early American, custom made in dk, Denmark (DK) plaid, ex. cond., \$95. 474-5610.

Whirlpool apt size W/D, ex. cond., \$350.

John, x39357 or 486-5203.

Refrig., gold, side-by-side, 20 cu. ft., good cond., \$295. 334-4361.

Sofa and loveseat, dk. blue, \$300; glass top coffee table, \$125, for both \$400; glasstop breakfast table w/4 chairs, \$100. 280-7629 or 480-5061.

Color TV, Curtis Mathis, 13", remote control, \$200. 484-6261.

25" color TV, remote control, RCA, ex. cond., 3 mos. old., \$415. x31336 or 554-4551.

5 pc. dining set, med. shade wood, rect. table w/leaf, wood/cloth chairs, ex. cond., \$225. Jana, x31653 or 532-3008.

5 shelf etagere, chrome and glass, \$45; 2 cocktail tables, \$25; 1 sofa table, \$35; 48" set bi-fold doors, \$25; room divider, \$30. Eileen, x37965 or 487-0149.

Full-size French Provincial canopy bed, dresser and mirror; matt. and boxspring incl., brand new canopy, bedspread and pillow shams, \$250. 280-1500-x3330 or 996-7423.

Wanted

Keyboard player looking to form rock band, would consider joining existing band. Alan, 282-6619 or x33382 or 333-1594.

Want girl's white French Provincial desk. Debbie, x34902 or 996-9128.

Riders needed, vanpool, West Loop Park and Ride to NASA area. Richard, x37557.

Want to buy a day bed. Patty, 326-1853.

Pets & Livestock

Free dogs to good home, rescued from abandonment and nursed back to health, many to choose from. x32949.

Free to good home, half Cocker/half/Dachshund (Cockle-Dockle), affectionate, male, housebroken, 5 yrs. old. Judy, x38455.

White rabbits, perfect size for pets, incl. starter feed and instructions, \$10. x30369.

Musical Instruments

Kimball console piano, Early American style, maple finish, ex. cond., \$1,400, OBO. 333-0964 or 482-3397.

Lost & Found

Found, blue pair of ladies prescription sunglasses in Bldg. 29. Anne or Tamor, x35405 or x35404.

Miscellaneous

'74 Datsun rear end, fits 260Z, compl. w/brakes, suspension tires (Radial TA's), rims, \$150. Mike, x32693.

Porsche 944 bra, case incl., \$70. 643-7734.

1847 Wm. Rogers Silverplate service for 8, 7 extra pieces. Ruby, 783-9164.

New air-cooled 50hp eng., paid \$1,300, sell for \$400; lg. two-burner Coleman stove, \$25. Phil Peterson, 471-1471 or 282-3544.

Lawnmower w/rear bag, like new eng., \$100. 480-3260.

Golf clubs, Tour Mod. System II, 1-9 PW and SW, \$185; metal woods, \$40/ea., \$70 for 1 and 3. David, 282-3827 or 554-5514.

EAZ-Lift hitch receiver #1334 (10,000 lb. class) for Ford van or Club Wagon, (124 in. and 138 in. wheel base), hardware and install. instructions, \$95. Tom, 474-2041.

EAZ-Lift weight distributing hitch for trailer towing (7,500 lb. class), bolt-type w/sway control, 16-in. long shank for rear tire mount clearance, \$285. Tom, 474-2041.

DP rowing machine/bench press comb., ex. cond., \$50. x34847 or 486-4548.

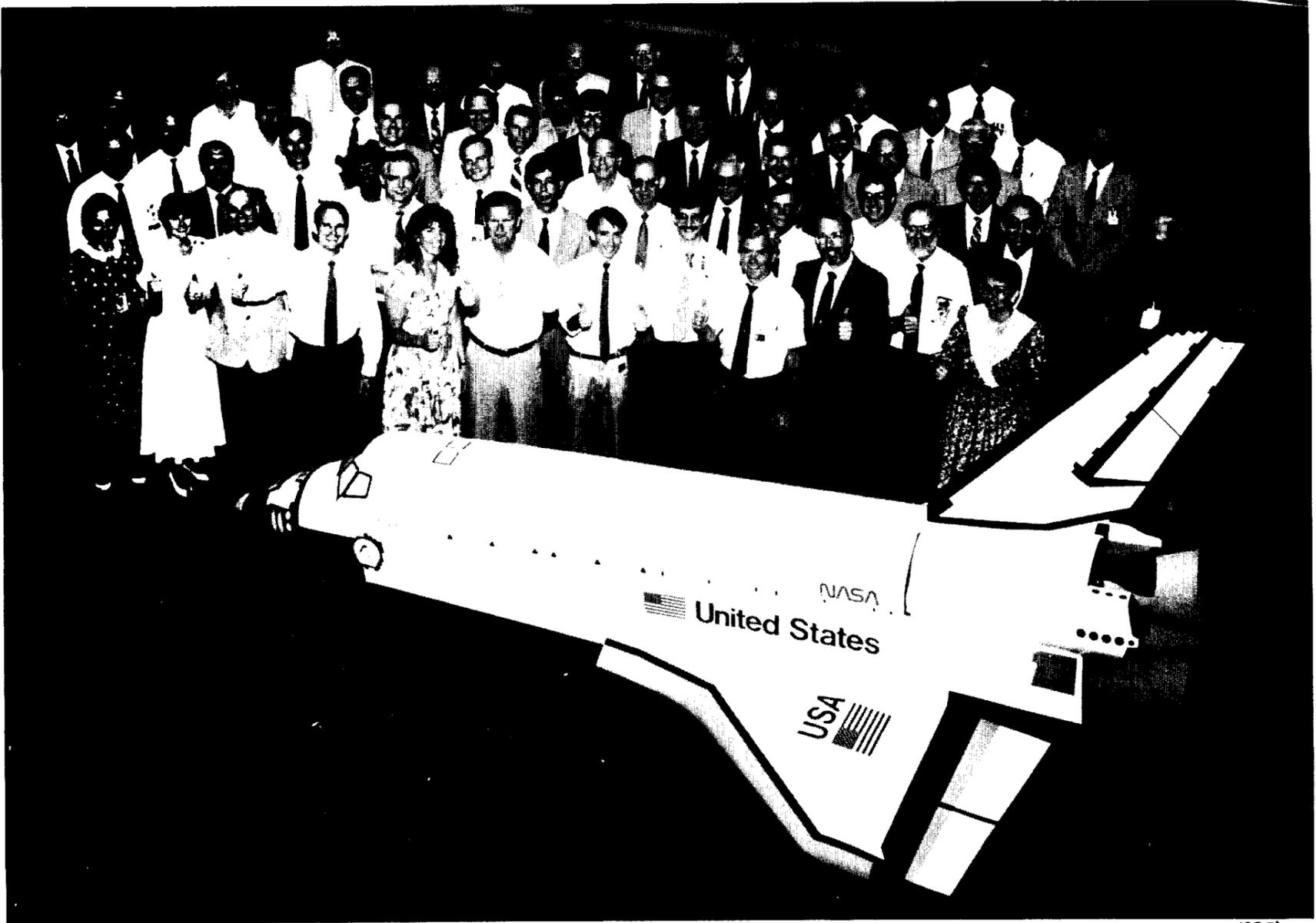
Camper shell fits '81 Chevy long bed, wooden. Trey, 484-7834 or 380-4381.

8' wide, 3 axles, \$1,800. 472-8366.

Sony XR6300 AM/FM cass. car stereo, 25 watts, auto reverse, auto music search, station programmable, \$185, OBO. Michelle, x34374 or 554-2578.

One-way ticket, Hobby to St. Louis, SW Airlines, dep. May 18, 7 p.m., \$20. x30616 or 488-0500.

Rowing machine, Ward's best, ex. cond., \$150. Andy, x38277.



JSC Photo

About half of the Silver Snoopy Award winners give a "thumbs-up" for safe space flight. Many of the rest of JSC's 98 winners weren't able to attend because of their duties related to STS-30 and their continuing commitment to flight safety and mission success.

Snoopy spreads astronaut 'attaboys'

Workers receive flight safety, mission success awards

Ninety-six JSC civil service and contractor employees have received the astronauts' own personal commendation for outstanding effort in the areas of flight safety and mission success during March and April. Only two of the total 98 awards—for employees at White Sands Test Facility—have yet to be presented. The Silver Snoopy Awards, part of the Manned Flight Awareness Program administered by JSC, were presented both on- and off-site by astronauts who made surprise appearances in the winners' work places to present the awards. Another call for Silver Snoopy nominations is planned within the next few months. Presentation of those awards will be made in late summer. Civil service employees who received the awards were:

Human Resources Office:
Duane Ross.

Administration Directorate:
Randy Gish, Norman Lamb, Thomas Foster and Patricia Cobb.

Flight Crew Operations Directorate:
Lynn Cross, Jean Ellis, Henry Taylor, Larry LaRose, Martin Lewis and John Starnes.

Mission Operations Directorate:
Robert Floyd, Humberto Sanchez, Mark Kirasich, John McKune and Michael Donahoo.

Engineering Directorate:
Steve Fitzgerald, Steve Labbe, Eric Hurlbert, Christopher Popp, Alan Rochford and Claud Edmiston.

Mission Support Directorate:
Larry Hartley and Clark Pounds.

National Space Transportation System Program Office:
Jack Boykin, Frank Moreno, Rodney Lofton, Jane Stearns, Ronald Davis, William Nelson and Thomas Snedecor.

New Initiatives Office:
Earl Tiedt.

Center Operations Directorate:
J.D. Williams and Garlan Moreland.

Safety, Reliability and Quality Assurance Directorate:
Alan Balusek and Lee Graham.

Space and Life Sciences Directorate:
Charles LaPinta, M.D.

Orbiter and GFE Projects Office:
John Peck and Harold McMann.

U.S. Air Force Space Division:
Capt. Samuel Domino and Capt. David Ladrach.
Contractor employees who received Silver Snoopy Awards were:
Aerospace Corp.:
Keith Underwood.

Barrios Technology Inc.:
Wannie McPeters.

Boeing Aerospace Operations:
John Hopkins, Edward Lednicki, Yolanda Marshall, Jan Railsback, Martin Mattingly, James Travlos, John Laurin, Carol Laurin and Max Kandler.

Computer Sciences Corp.:
Bill Kozick, Pat Mattos and Stephen Baudendistel.

Ford Aerospace Corp.:

Craig Davis and Robert McNulty.
IBM Corp.:
Wyatt Cooper, Ronald Barrett, James Webb, Clark Nichols, Edward Millman and William Cummings.

Lockheed Engineering and Sciences:
Olin Devall, James Kukla, Lance Mushung, Leroy Olson, Douglas Warrington, Phillip Hopkins, Ph.D.,

Harry Hefner, William Jennings, Gerard Moorman, Christin Dailey, James Carl, Elmer Branstetter, Jeffrey Harbour, Stacy Huggins, Ronald Hollis and Jerry Kauffman.

McDonnell Douglas Space Systems Co.:
Jim Compton, Richard Ulrich and Gerald Knori.

Pan Am World Services:
Rickie Rieck, Bill Corley, John Pohler and Jim Crain.

Rockwell Space Operations Co.:
Penney Mason, Dennis Smerz, Mary Ferris, Lawrence Myers, Elizabeth Youmans, Mark Erminger, Christopher McKenna, Charles Dumis, Jerome Shaw and Robert Prael.



JSC kicks off 1989 savings bond campaign this month

Building security while fulfilling dreams is the theme of JSC's annual U.S. Savings Bond Campaign, kicked off this month. JSC Director Aaron Cohen set the tone of the campaign by urging all JSC employees to consider the purchase of U.S. Savings bonds as an excellent investment tool.

"This campaign is particularly important to the economy, and the personal savings will make a real impact on the fiscal stability of our nation," Cohen said.

The new variable rate on savings bonds is market-based, keeping pace with current interest rates no matter how high they climb. To safeguard an investment, however, an established interest rate floor of 6 percent on bonds held five years or longer is in force. The current six-month rate is 7.35 percent.

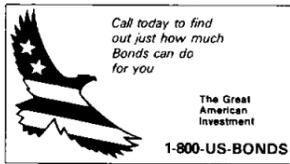
Series EE Bonds are exempt from state and local income taxes and federal tax liability may be deferred until redemption or final maturity, whichever is first. This feature significantly increases the yield.

"Our goal at JSC is 50 percent participation," Cohen said. The current level is at 42.3 percent,

which means JSC wants to enroll at least 256 new savers during the May 2-16

campaign.

Each employee will be personally contacted during the campaign concerning setting up or increasing their savings bond payroll deduction. Deductions as low as \$3.75 per pay period may be set up by filling out an enrollment card, available either from directorate savings bond campaign coordinators this month or throughout the entire year by contacting Payroll at x34832.



JSC Photo by Scott Wickes

CO-OP SCOOP—Michelle Short, a co-op in Engineering's Structures and Mechanics Division, discusses her project with Engineering Director Henry Pohl. Short, a student at Virginia Tech, is working on the Stabilized Payload Deployment System (SPDS). More than 200 people visited the first judged Co-op Job Fair at the Gilruth Recreation Center on Tuesday. The Mission Operations' Systems Division co-ops won best exhibit.

Rogers emphasizes overcoming obstacles

(Continued from page 1)

"Planet Texas." Dwarfed on a stage big enough to hold its own between the Saturn V and upright Redstone rocket, he and his co-stars shared each others well known works and easy humor, ranging from Willie Nelson's intimate rendition of "Star-dust" to Dolly Parton's crowd-pleasing rocker "Why'd You Come In Here Looking Like That?"

"I had a feeling this song might

go well around here," Rogers commented to the crowd's cheering response to his rendition of "Planet Texas," which was accompanied by a screening of his new \$600,000 video tale of a cowboy captured by aliens.

The "Something Inside So Strong" number gave musical testimony to Rogers' overriding concert theme—overcoming obstacles to attain greatness. He noted to the

crowd that the three featured entertainers in the show had all come from humble beginnings, and mentioned his upbringing in a Houston housing project.

"You're celebrating the 20th anniversary of landing on the moon this summer," he told the crowd. "You know what that's (overcoming obstacles) like. We're saluting people who are struggling in all parts of life here."

Quality finalists await final award decision

(Continued from Page 1)

istered for NASA by the American Society for Quality Control, Milwaukee, a professional association and worldwide leader in development, promotion and application of quality and quality-related technologies.

The other four finalists are:

- Bendix Field Engineering Corp., Columbia, Md.,
- Boeing Computer Support Ser-

vice (Computational Mission Services), Huntsville, Ala.,

- EG&G Florida, Inc., Kennedy Space Center, Fla.,
- Grumman Technical Services Division, Titusville, Fla.

The award process now advances to the third phase, in which a validation team visits finalists' facilities to verify performance achievements and process attainments.

Following this review and recommendations of the award evaluation committee, NASA's Quality and Productivity Steering Committee, composed of center directors and Headquarters associate administrators, will make the final selection of award recipients. The NASA administrator will announce award recipients at the sixth annual NASA/contractor conference Oct. 31, 1989.

Escape pole designer gets Engineer of Year acclaim

Clarence J. Wesselski of JSC's Engineering Structures and Mechanics Division, has been named American Institute of Aeronautics and Astronautics (AIAA) Houston Section 1989 Engineer of the Year.

Wesselski was honored "for conceiving the basic design, serving as principle designer, and leading the development test effort for the space shuttle orbiter crew escape system pole."

Engineering Director Henry Pohl presented the award to Wesselski on March 30. Wesselski, who has been at JSC since 1962, will be the Houston nominee for AIAA Region IV Engineer of the Year.

JSC program analyst ABWA woman of year

Evelyn J. Preston-Williams, a JSC

program analyst in the National Space Transportation System Management Integration Office, has been elected Woman of the Year by the Marquette Charter Chapter of the American Business Women's Association (ABWA).

Williams, who has been with NASA for 15 years, becomes eligible to compete for the 1989 Top Ten Business Women of ABWA at the national convention in Nashville this fall.

The Marquette chapter elects one of its members for the award each year based on achievements in business, education, community activities and ABWA activities.

Apollo program office veterans being sought

Organizers of the Apollo Spacecraft Program Office (ASPO) reunion are

JSC People

seeking help in locating a number of former program office employees.

Organizers hope to send information on the planned July 22 reunion at the Gilruth Recreation Center to all former ASPO employees. The group also is seeking old photographs to share at the reunion.

If you know the whereabouts of such a person, call Sharon Martin at x31432. Anyone with photos should call Billie Gibson, x34641.

Asian-Pacific American space work chronicled

The coordinators of this year's JSC Asian-Pacific American Heritage Day activities are seeking Asian-Pacific Americans who have contributed to the success of manned spacecraft programs.

Dr. Kumar Krishen, chairman of the Sept. 8 event, said a directory of notable contributions made by Asian-Pacific Americans will be published. Individuals are being asked to submit their names and details about their careers and contributions to Richard Long, Code C22.

For more information, call Krishen, x36777, or Sophia Lecour, 282-3798.

Easley gets contract management fellowship

Gene Easley, chief of the Space Shuttle Procurement Division, has been named a fellow of the National Contract Management Association (NCMA).

Easley was selected for significant and outstanding contributions to the profession of contract management. Criteria for the award include education, contracting experience, substantial involvement in an NCMA chapter, and speaking, writing or teaching in the contract profession.

Office supply crunch means workers must conserve resources

By Linda Copley

JSC organizations are consuming supply allocations, primarily paper, at a rate one and a half times faster than last year—and employees may be feeling the crunch fairly soon.

"In order to keep the warehouse stocked with crucial supplies, such as facility critical spares, photocopying, printing, and computer paper," explained Grady McCright, deputy director of Center Operations. "It has become necessary to issue supply allocations to all Center directorates.

"But even with the restrictions currently in force, several organizations are currently depleting their supply allocations faster than the annual plan," says McCright. "Once exceeded, the warehouse will be closed to those organizations."

Among the ways employees may help JSC get through the crunch: reducing the quantity of supplies ordered; reducing the number of photocopies made and copies requested from the print plant; culling distribution lists for JSC documents to the minimum; sharing existing in-house supplies willingly with other organizations; and establishing a screening point in each organization to ensure that in-house supplies are exhausted before re-ordering.

The supply funding crunch began, according to McCright, by order of the

Appropriations Realignment in April 1988. The order (made retroactive to October 1987) mandated that certain products such as paper be changed to Research and Program Management (R&PM) funds. "In other words," says McCright, "in the post-April '88 time frame, paper products could no longer be charged against programmatic funding, even if there was program money available."

Since 1986, JSC's total supply budget has been cut every year but one, yet 186,000 square feet of new facilities have been opened and 2,000 support contractors and 100 federal employees have been added to the center employment rolls. "So our increased costs and supply usage is not surprising, but reality must be faced," said McCright.

During the first half of fiscal year 1989, JSC's purchases of photocopying and computer paper amounted to 75 percent of the total spent on those supplies during all of fiscal 1988, he said.

JSC Director Aaron Cohen has requested that each employee make his or her best efforts to conserve their use of supplies. "I want to thank all of our JSC employees for their cooperation in this effort," Cohen said. "We know that once everyone realizes the severity of the situation, they will do their best."

Cohen presents awards

JSC Director Aaron Cohen presented both Suggestion and Space Act Awards to employees at a ceremony in Bldg. 1 on April 26.

Suggestion Award recipients included: Danny Taylor, James Moncrief, \$1,250; James Bagian, Paul Torrance, \$750; Betty Craig, Josephine Jue, \$500; Donald Tillian, \$400; and James Bagian, \$250.

Space Act award winners were recognized for their contributions in three categories:

NASA Technical Briefs: Frederic Dawn, Joseph Kosmo, Jose Marmolejo, Clifford Hess, Larry Li, Mary Cerimele, Jerrold Suddath, Herbert Kobayashi, Richard Juday (two awards received), Bobby Bragg, Eric Dimpault-Darcy, Steven Koontz (two awards received), William

Schneider, Guy King, Peter Fantasia, Jon Kahn, LeBarian Stokes, Dean Glenn, Christopher Culbert, Gary Riley, Robert Savely, Lui Wang, Michelle Rucker, Joel Stoltzfus, Dennis Morrison and David Wolf, all awarded \$150;

Patent Application Awards: Leo Monford, Richard Juday, \$500; Winston Goodrich, Edgar Castro, Margaret Grimaldi, Timothy Pelischek, Clarence Wesselski, Bruce Becker, Jon Kahn, John McManamen, Timothy Fisher, Richard Juday, Bryan Basham, Jane Malin, Bobby Bragg, Eric Dimpault-Darcy, William Schneider, Guy King, Kumar Krishen, and Sharon Goza, \$250;

Scientific Contribution: Thomas Kalvelage, Rockwell Shuttle Operations Co., \$1,000.

Space News Roundup

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Editor..... Kelly Humphries

Associate Editor..... Linda Copley

Patent lunch

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for a Tapered, Tubular Polyester Fabric;

Ronald Maynard for a Fluidic Momentum Controller;

William Schneider and Wesselski for a Mobile Remote Manipulator System for a Tetrahedral Truss; and

Kornel Nagy, Schneider and Wesselski for a Preloaded Brake Disc.