National Aeronautics and Space Administration

Lyndon B. Johnson Space Center Houston, Texas

# Space News Roundup 

## Budget hearings start

## Station managers ready for Congressional votes

By Kari Fluege
As Congress begins to focus on NASA's 1995 budget, International Space Station Program managers are ready for debates on the new redesigned, orbiting laboratory and the plan that will put it in space.
"We have a viable program tha we can deliver on time and within the funding plan," said Randy Brinkley, program manager. "Th people here have done everything possible to enhance the probability

## Executive assistant appointed <br> man recently was

 named executive assistant to JSC Director Dr. Carolyn Huntoon. In this position, Garman will share responsibility for managing the overall responsibilities for the center including institutional business of the center such as facilities manpower, and fiscal and bud getary matters. She also will provide support to the director's office for participating in memoranda of understanding, reimbursable agree ments and loan agreements Garman also will support visits of high-level U.S. and foreign digni taries and government officials to the center."Sue Garman brings a unique combination of experience to this position," Huntoon said. "She will be an invaluable addition to the staff of the Office of the Director."
Garman began her career in 1967 as an engineering aide in the Mission and Planning Analysis Division with Federal Electric Corporation and from 1983 to 1987 she served as director of adminis tration for Hernandez Engineering. She joined NASA as a cooperative education student in 1987, earning a bachelors degree in accounting from the University of Houston in 1989. After working in a variety of roles in JSC's procurement office she served as executive assistant to NASA Administrator Daniel Goldin, returning to JSC in 1993.
Garman's most recent assignment was with the Space Station Program's Procurement Office and the Office of the Director support ing organizational planning and transition.
of success of the space station. "
Next week, Congressional hearings will begin regarding NASA's Fiscal Year '95 appropriation, and the space station is expected to be in the spotlight.
Brinkley said he expects this year's station debates to cover a variety of areas, but focus on three primary issues - the participation of the Russian Space community cost and affordability and the scientific value of the research on the
station.
Since the last time Congress voted on NASA's space station plans, the program has undergone several significant changes. The program was consolidated and reorganized with JSC as host center. Boeing was named prime contractor with responsibility for the subcontractors' work, and a new management structure was implemented using Integrated Product Teams to work issues with all par-
ties as they develop.
Perhaps, the most dramatic change, however, is the inclusion of Russia as an international partner in the space station.
Russian involvement will enable cost and schedule savings, earlier on-orbit research opportunities and increased science capabilities, Brinkley said. It also results in the station being a major component in he nation's foreign policy initiatives
with Russia.
"With that status, we have the full backing of the White House, but we also are more likely to be affected by foreign policy decisions in the future," he said.
Construction of the station is expected to begin in December 1997 with human-tended opera tions beginning in June 1998 after the launch of the U.S. laboratory. Funding for the station is capped a $\$ 2.1$ billion per year for a remain

Please see SPACE, Page 4


## Columbia gets ready for next mission <br> \section*{By James Hartsfield}

At Kennedy Space Center, technicians are preparing to load the next shuttle cargo - the second International Microgravity Labor atory - aboard Columbia this week in preparation for the launch of shuttle mission STS-65 in early July.
Preparations are progressing smoothly as the oldest orbiter in the shuttle fleet is readied for its 17th flight.

Technicians this week completed the installation of the drag chute and spacelab tunnel adapter, which will connect IML-2 with Columbia's cabin.

Other work included preparations to install the three main engines. Current plans call for Columbia to
be moved from the Bay 2 process-
ing hangar to be mated with the STS-65 solid rockets and fuel tank in mid-June.
STS-65 will be commanded by Bob Cabana. Pilot for the mission is Jim Halsell. The crew will include Payload Commander Rick Hieb and Japanese Payload Specialist Chiaki Mukai along with Mission Specialists Carl Walz, Leroy Chiao and Don Thomas. The mission is scheduled to last 14 days.
While $\operatorname{ML}-2$ was being moved to Columbia's hangar, Endeavour, fresh from space and next up following STS-65, was en route cross country back to Florida from Edwards Air Force Base in California. Endeavour arrived at KSC

Monday morning after several weather delays. Piggyback atop the Boeing 747 Shuttle Carrier Aircraft, Endeavour departed California Friday afternoon and spent the night at Biggs Army Airfield in El Paso. Saturday, the ferry flight departed Biggs, stopped at Dyess Air Force Base, Abilene, to refuel, and then stopped at Little Rock Air Force Base, Little Rock, Ark., to wait out the weather for the final leg of the flight.
The flight found good weathe Monday morning for the final trip to KSC, arriving at the Shuttle Landing Facility about 9 a.m. central time.
Endeavour is now in the Bay processing hangar where it will be readied for an August launch on

STS-68, again carrying aloft the Space Radar Laboratory. The sec ond SRL mission will provide a dif ferent seasonal view of many of the areas imaged during April's 11-day SRL-1 flight.
Elsewhere at KSC, Discovery is in the Bay 3 hangar being prepared for a September launch on STS-64 to carry the Lidar in Space Tech nology Experiment, a laser rada that will make its first shuttle flight to study the atmosphere.
Work on Discovery this week included installation of the flash evaporator system, landing gea and thermal tile inspections, instal lation of the drag chute, and prepa rations to install the right orbital maneuvering system pod.

## NASA joins industry partners to create new Environmental Resource Center

By Eileen Hawley
NASA and private industry recently joined forces to create a new resource for researchers studying the environment
The new Environmental Resource Center opened April 26 in the Clear Lake area, and will collect, organize and disseminate the volumes of environmental information currently contained in thousands of separate databases throughout the country.
JSC Director Dr. Carolyn Huntoon joined U.S. Rep. Jack Brooks, Governor Ann Richards and NASA Administrator Daniel Goldin at a ceremony held April 25 at the University of Houston - Clear Lake announcing the formation of the

Environmental Resource Center
"We're going to work with this new partnership," Huntoon said. "It's going to take this community, this university, the Johnson Space Center, the State of Texas, NASA and private industry to make this a success. This is the sort of partnership that we need today."
The data available at the ERC was developed and collected by more than 20 different federal, state and local agencies, private organizations and universities. However, before the ERC, there was no cenral point where the information was collected or organized
By consolidating the information currently contained in these differen
databases into an integrated sys databases into an integrated sys tem, the ERC provides a centra location for users to access environ mental data, and allows data and technology applications to be shared among previously incompatible data sources
"The business of space exploration is about the extension of human knowledge," Huntoon said "and I believe this Environmenta Resource Center will expand our knowledge far beyond what we can imagine today.
As the center matures, it will broaden its efforts from simply ac cessing information to providing complex data integration and rea time monitoring.

## Ticket Window

## Dates \& Data

The following discount tickets are available for purchase in the Bldg. 11 Exchange Store from 10 a.m.-2

Astroworld Tickets: Tickets avaiable for May 6 . Admission trom 0 p.m. to midnigh Cost is Astrowcelve a free Waterworld pass upon entrance Astroworid Early Bird: Tickets available for one
prsich ick burchased by May.
Karate Championships: Tickets ave Galveston Home Tour May 7, 8, 14, or 15 . Cost is $\$ 13.75$ Astroarena. Cost is $\$ 12.50$ for general admission, $\$ 20$ for ringside.
Seaworld of Texas: Discount tickets: adult \$20.95; child (3-11), \$14.25
Fiesta Texas: Discount tickets: adult $\$ 18.95$; child (4-11) and seniors ( $55+$ ), $\$ 14.25$
Space Cender Ho Discount tickets for two of three different attractions: $\$ 9.50$ Space
$\$ 9.55$.
Metro

Metro tickets: Passes, books and single tickets available.
Movie discounts: General Cinema, $\$ 4.75$; AMC Theater, $\$ 4$; Loew's Theater, $\$ 4.50$
Stamps: Book of $20, \$ 5.80$
JSC history: Suddenly, Tomorrow Came: A History of the Johnson Space Center, $\$ 1$
Upcoming Events: 7 -day Caribbean cruise Oct. 29-Nov. 5 . A video preview will be held at
m. May 11 in Rm. 216 at the Gilruth Center. For additional information, contact $\times 34037$.

## JSC

## Gilruth Center News

Sign up policy - All classes and athletic activities are first come, frist sed. Sign up in at the Giiruth Center and show a NASA badge or yellow EAA dependent badge. Classes tend to fill of registration. No registration will be taken by telephone. For more information, call $\times 30304$
EAA badges - Dependents and spouses may apply for photo identification badges from.
p.m. Monday-Friday; 9-11 a.m., 1-3 p.m. and 6:30-9 p.m. Wednesdays; and 8 a.m. 4 p.m.

Saturdays. Dependents must be between 16 and 23 years old.
Weight safety - Required course for employees wishing to use the weight room is offered from
8-9:30 p.m. May 18 . Pre-registration is required. Cost is $\$ 5$. -9:30 p.m. May 18. Pre-registration is required. Cost is $\$ 5$.
Defensive driving - Course is offered from $8: 15$ a
Cost is $\$ 19$.
Aerobics - High/low-impact class meets from 5:15-6:15 p.m. Tuesdays and Thursdays. Cost is
32 for eight weeks.
Exercise -
Exercise - Low-impact class meets from 5:15-6:15 p.m. Mondays and Wednesdays. Cost is
Aikido - Martial arts class meets from 5-7:30 p.m. Tuesdays and 6:15-8:15 p.m. Wednesdays Sailing class from 6.8 p.m. Fridays, requires instructor permission. Cost is $\$ 25$ per month.
Sailing Club - Sailing lesson
Hoover at $\times 31360$ or $996-7716$.
Golf lessons act $\times 33345$.
Softball tournament - Softball tournament will be held May 21 and 22. Cost to register is $\$ 100$
er team. Registration deadline is 7 p.m. May 18.
Basketbail tournamen - Three-on-three basket
$\$ 40$ per team. For additional information, call $\times 33345$
Fitness
Fitness program - Health Related Fitness Program includes a medical
and a 12 -week individually prescribed exercise program. For more information, call Larry Wier at

## Today

Cafeteria menu - Special: fried chicken. Total Health: vegetable lasagna. Entrees: broiled cod fish beef stroganoff, vegetable lasagna Vegetables: steamed broccoli, car rots vichy, Italian zucchini, breaded okra.

## Monday

Cafeteria menu - Special: mea sauce and spaghetti. Total Health potato baked chicken breas Entrees: wieners and sauerkraut, sweet and sour pork chop, potato baked chicken, steamed fish, French dip sandwich. Soup: cream of asparagus. Vegetables: French cut green beans, seasoned rice, Caliz

## Tuesday

Blood drive - Rockwell will host a blood drive from 8-11:30 a.m. May 9 and 1-2:30 p.m. in Civic Rms. A \& B located at 600 Gemini. For additional information, contact Liz Hernandez, 282-3418
Cafeteria menu - Special: smothered steak with dressing. Total Health: shrimp creole over rice Entrees: beef stew, liver and onions, shrimp Creole, baked chicken, French dip sandwich. Soup: navy bean. Vegetables: steamed rice seasoned cabbage, corn O'Brien peas, potatoes au gratin

## Wednesday

Astronomy seminar - The JSC noon May 11 in Bldg, 31, Rm 129 For more information, call Al Jackson, 333-7679.
PSI meets - The Clear Lake NASA Area chapter of Professional

Secretaries International meets 5:30 p.m. May 11 at the Holiday Inn on NASA Road 1. For additional information, contact Elaine Kemp x30556 or Diana Peterson, x30390
Cafeteria menu - Special: sal mon croquette. Total Health: veg etable plate. Entrees: roast pork baked perch, steamed fish veg etable lasagna, Reuben sandwich Soup: seafood gumbo. Vegetables mustard greens, okra and tomatoes vegetable sticks, lima beans

## Thursday

Russian speakers - Practice a.m language skils from 11 cafeteria. For more information, call Jack Bacon, x38725, or Amy Mendez, x38066.
Cafeteria menu - Special stuffed cabbage rolls. Total Health oven crisp cod. Entrees: beef tacos ham and lima beans, pork and bee egg rolls, steamed fish, French dip sandwich. Soup: beef and barley Vegetables: Brussels sprouts, green beans, buttered squash, pinto beans.

## Friday

Cafeteria menu - Special: baked chicken. Total Health: roast beef au jus. Entrees: deviled crab, Creole baked cod, baked chicken, beef cannelloni, Reuben sandwich. Soup seafood gumbo. Vegetables: sea soned carrots, peas, breaded okra, steamed cauliflower.

## May 18

IEEE meets - The Galveston
Bay Section of the Institute of Elec trical and Electronics Engineers wil host a videoconference on "Revolu
tionary Concepts in Human/ Computer Interaction" beginning at 11 a.m. May 18 in the Gilruth Center. For registration and other information, contact Frankie Hap, 333-6064 Aerospace symposium - The 28th annual Aerospace Mechanisms Symposium will be held May 18-20 at Lewis Research Center. For more information, contact Ed Boesiger, (408) 743-2377

Astronomy seminar - The JSC Astronomy Seminar will meet a noon May 18 in Bldg. 31, Rm. 129. For additional information, call Al Jackson, 333-7679.

## May 19

Russian speakers - Practice Russian language skills from 11 a.m. -1 p.m. May 19 in the Bldg. 3 cafeteria. For additional information, call Jack Bacon, x38725, or Amy Mendez, x38066.

## May 24

Blood drive - McDonnell Douglas will host a blood drive from 8-11:30 a.m. May 24 at 16055 Space Center Blvd. For additional information, contact Teresa Esquivel, 2125036.

## may 25

Astronomy seminar - The JSC Astronomy Seminar will meet a noon May 25 in Bldg. 31, Rm. 129. Al Jackson will speak on "Come Shoemaker/Levy Hits Jupiter in July." For additional information, cal Al Jackson, 333-7679.

## May 30

Memorial Day - Most JSC offices will be closed in observance of the Memorial Day Holiday.

## 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 Deadline is 5 p.m. every Friday, two weeks before
the desired date of publication. Ads may be run only 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

## Property

Sale: Bay Forest patio home, 3-2-2, all upgrades,
alde-sac, $\$ 150 \mathrm{k} . \times 33075$.
Sale: Townhouse, 2-2.5-2C,
Ssphere, lake view. 474-2339,
Sale: Friendswood, $4-2.5-2 \mathrm{~T}, 2137 \mathrm{sq} \mathrm{ft}$, Ig living
area, FPL , jacuzzi in master bath, formal area, FPLL , jacuzzi in master bath, formal DR, ceiling
fans, sec sys, 2 yr old, cul-de-sac, $\$ 105.9 \mathrm{k}$. 992 fans, 146.

SaalelLease: Clear Lake Shores, $3-1,1 \mathrm{blk}$ from
Clear Lake, owner financing possible. 538 -1849. Sale/Lease: Freeway Manor $3-1-1$, fenced back yard, ceiling
$332-3649$.
Sale/Lease: Egret Bay condo, 2-2, W/D, mirror,
tile, $\$ 45 \mathrm{k}$ or $\$ 550$ /mo. $643-3406$, Lease: Middlebrook $11,3-2-2$, , fenced, FPL, garage door opener, ceiling fans, good cond, $\$ 850 / \mathrm{mo}+$
dep. $486-8551$ Lease: El Lago 3-2-2, patio, FPL, ex cond, $\$ 895 /$
mo. $\times 37598$ or $333-9777$ Sale: Point Blank, TX, 1.9 acres, 7 min from Lake Livingston. $\times 37311$
Sale: Univ Tr
Sefrig, up and down corner unitit $\$ 53 \mathrm{~K} \times 32412$, W/D, Sale: Sagemont, $3-2-2$, unith formals, trees, Ig den, new root. Ben, $\times 34339$ or $481-1439$.
Rent: Ski Wolf Creek, CO, house, sleeps 6, no Rent: Crystal Beach beach house, dlywwkly, CAHH, furn. 485-1730.
Sale: Baywind II condo, 1 BR, FPL, WID conn,
newly redecorated, $\$ 27.5 \mathrm{k}$. John, $333-4114$ c 333 newly redecorated, $\$ 27.5 \mathrm{k}$. John, $333-4114$ or 333 -
4144 . Sale: Heritage Park, $3-2-2$, remodeled, ex cond,
covered dieck, storage, $\$ 699.9 k . \times 40213$ or $332-7092$. Sale: Cypress Lakes, Cleveland, TX, 1 lot, owner finance, $\$ 2 \mathrm{k}$. Elaine, $\times 36436$ or $772-7933$.
Lease: Seabrook, Baybrook Subdiv, $3-2-2$-2, 3 yrs
old, ex cond, avail late May, $\$ 900$ /mo + dep. $\times 36255$, old, ex cond, avaik
( 617 ) $621-3985$.
Sale.
Sale: Bay Glen, 3-2.5-2, Jacuzzi bath, FPL,
$\$ 104 \mathrm{k}$. Ruben, x 47119 or 486-0817. Lease: Nassau Bay TH, $4-2 \cdot 2.55$. 2000 sq ft , deck,

Ig garage, atrium, non-smoker. Jerry, $\times 38922$ or 488 | Ig garag. |
| :--- |
| 5307 |

G yard witroe Ig yard w/trees, $\$ 99.5 \mathrm{k}$. Denise, $\times 31846$ or $486-5146$. Sale: Univ Trace TH, 2-2.5-1, \$64.9k. Herb, 481 Rent: Arkansas cottege on Blue Mountain Lake,
furnished, wooded, $4 \mathrm{ac}, \$ 250 / \mathrm{wk}$. x 33005 or 334 7531 . Rent: Colorado condo, fully furnished, sleeps 6 ,
low rates. $488-4453$. 61st St, whndwkilydly rates. Magdi Yassa, 333-4760 Cars \& Trucks

## '86 Ford $481-0695$.

481.0795 . '87 Nissan PU, gray, std, 70 kmi , dented, runs
great, $\$ 1.7 \mathrm{kOBO}$ OBO $326-4453$. 85 Honda Accor LX , auto, pwr steering/locks,
ACC, AM/FM cass, low mi, new carb O/H fuel pump
grey, ex cond, $\$ 3250$. Ray, $\times 33954$ or $487-4889$.
' 85 Subaru GL sedan, 4 -dr. 5 spd manual PS/PB, pwr door/locks, AM/FM stereo, new distribu forftires, red, ex cond, 120 kmi m $\$ 1.1 \mathrm{k} \mathrm{OBO}$. Tony, ${ }^{2} 90$ Mazda 8669 . non-smoker, new converrible top, $\$ 9.5 \mathrm{k}$. Brian, 280 ' 92 Ford Explorer, ex cond, 38 k mi, leather int, alarm, pwr, non-smoker, $\$ 18.9 k$. Sherry, $x 38607$ or $338-2674$
Sik OBO. Dave, $\times 45381$
${ }^{8} 84$ Dodge Caravan LE, AC, auto, AMIFM, loaded, 5 passenger, 77 k mi, ex cond, $\$ 3.4 \mathrm{k}$ OBO.
$\times 38151$ or $532-1100$. '91 Toyota Corol
auto, AC, AMFMistereo, ex cond, $\$ 7680.333-7167$. $\cdot 76$ Datsun $280 \mathrm{Z} 2+2,66 \mathrm{k} \mathrm{mi}$, some new tires, $\$ 1.6 \mathrm{k}$ OBO. Gibson, x36224 or body rust, ' 82 Camaro, AC, auto, 2.8 L V6, AM/FM stereo/

## cass, brownibeige,

'87 Ford Crown Victoria LX, $\$ 5 \mathrm{k}$. Bill, $944-0985$.
' 91 Honda CRX, 5 spd. ACC, AMFM/cass, $32-42$ mpg, Honda CRX, 5 spd, AIC, AMFM/cass, $32-42$ 0046.
$\quad 86$

Toyota PU, ex cab, long bed hue PS, PB
5 spd, $\$ 4 \mathrm{k}$. Kurt, $\times 38753$ or 334 -4937.
ng/brakes, AM/FM EXP, 2 dr, hatchback, pwr steering/brakes, AM/FM, auto
clean, $\$ 700.282-3224$.
' 87 Nissan Van GXE, 1 ice'heat box, quad captains' chairs, $\$ 7 \mathrm{k}$; $\$ 750$ Nissan rebate coupon, $\$ 600$. Jeff, $482-5393$ or 333 -
7010 . 64 T.bird, v8, auto, blue int, black ext, ex cond,
$\$ 4.5 \mathrm{k}$. Foster, $\times 40126$.

Boats \& Planes
'91 Cajun 18.5' center console bay boat, '93 35hp Mercury PT/T, Motorguide trolling motor,
$\$ 10.5 \mathrm{k}$. Gary, $\times 37069$ or $534-3080$. ${ }^{15}$ ' Wellcraft, walkhhru windshield, vinyl down trlr, low hrs, ex cond. John, $488-4487$,
93 Proline 190, 115 hp Yamaha, trr, depth finder, live well, accessories, 20 hrs , ex cond, $\$ 14.5 \mathrm{k}$. Greg, x33444 or 489-3082.
' 86 Bayliner Capri
new jack \& buddy bearings, kneeboard, anchor, Coast Guard kit, life jackets,
bumpers, oar, AMiFM radio, canvass top, new batt,
12 -volt trolling mitr two 2 -gal tanks 12-volt trolling mtr, two 2-gal tanks, ex cond, 50 hrs,
$\$ 2950$. Ray, $\times 33954$ or $487-4889$. Boston whaler, used only in ireshwater, ex cond, Chaparral 187, 140hp Mercruiser I/O, SS prop. electronics, ex cond, $\$ 5.7 \mathrm{k}$. X37954 or $481-1605$.
Chrysler 22' sailhoat, Chysler 22' sailboat, sleeps 6 , galley, head, fixed
keel, 5 h O/B, main and 2 jibs, ex cond, slip in Clear Lake, $\$ 2.5 \mathrm{k}$ 282-1727
$18^{\prime}$ fish/ski tri-hull
tilttrim, galv trir, $\$ 2150$, will price separately. Dan, $\times 31716$ or $488-3106$

## 

## '93 Kawasuki Jet Ski, trlr, jet ski cover, life pre- severs, $\$ 4.5 \mathrm{k}$. $\times 33818$.

## Cycles

90 Yamaha four wheeler, Big Bear 4x4, ex cond
10 Ssd bike, good cond, $\$ 60.488-4412$.
' 84 Susuki GS1100GK touring bike, ex cond, 24 k

## Audiovisual \& Computers

## Pioneer, Realistic 10 band equalizer, Advent towe

 speakers, $\$ 400.941-5288$.Trade new $\$ 1300$ USRobotics 19200 bps V. 32 lurbo modem for Macintosh or Powerbook, upgrad IBM compatible NEC-286 computer, 640 K RAM 44 MB HD, 2 FD, $3.5^{\prime \prime}$ and $5.25^{\prime \prime}$, color monitor, kybd, SW, $\$ 400$. Earl Rubenstein, 480-1998.
Sherwood tuner, amp and KLH speakers, $\$ 55$
Charile, $488-4412$.
Sega game gear
Sega game gear, AC adapter, rechargable battery
pack, Pacman, JM Football, Prince of Persia, Space Invaders, all ex cond, $\$ 150$. 286-8981.
Atari 1040ST, word proc, spreadsheet, many games, $\$ 150$ OBO. $\times 41089$ or $480-8335$.
Nintendo, 4 controllers, entertainment Nintendo, 4 controllers, entertainment center, 20 ioneer 3 -way speakers, stereo cabin $\$ 200$ OBO. Allen, $\times 38824$ or 286-1124.

## Photographic

Nikon F 35 mm camera w/finder, case, 50 mm 1.4 and 200 mm 4. Of, Rolliflex TLR wcase, filters, Metz
$45-\mathrm{CT}-5$ strobe, best offer. Ron, $\times 30887$.
Musical Instruments
Bradbury spinet piano, $\$ 500 . \times 33626$.

## Pets \& Livestock

2 AKC Laborador Retrievers, one ch
one black female, price neg. 947-2025.
5' Burmese python, 30 gal aquarium, screen
cover, heat rock
Will breed flashy, registered male Boxer for pick of
iter. $992-3876$. litter $992-3876$.
AKC Siberian
AKC Siberian Husky female, 1.5 yrs, black white,

blue eyes, medical rey ocds, $\$ 150$ ORO Lab-mix female, neutered, all shots 3 yrs toving | gentle, smart, non-barker, free. Susi or John, 482- |
| :--- |
| 647 . |

## Household

## Oriental rug, $6^{\prime} \times 9^{\prime}$, light b eannette, 455752 or 992 -5946.

Wards 27 cu ft side by side frig, almond color, ex cond, glass shelves, ice/water in door, $\$ 450 ; 6^{\circ}$ craft Kgle w/cutting mat, drop sides, $\$ 200$. Sandi, $\times 33854$.
Kg sz bed, approx 7 yrs old, $\$ 200$ OBO. 488-0056. g sz bed, approx y yrs old, $\$ 200 \mathrm{OBO}$. $488-0056$. White metal tubular bunk bed, full sz bottom, twin sz top, $\$ 350$; electric dbl oven/stove, $\$ 50$; high pwr microwave, $\$ 75$. Tony, $\times 47401$ or $482-4125$.
End and coffee tables, End and coffee tables, rattan w/smoked beveled Dining mm table w/6 chairs, 2 yrs or $332-0898$. now $\$ 350$ OBO; Panasonic dual cass stereo w speakers and cabinet, ex cond, $\$ 150$ OBO; Eureka upright vacuum cieaner, $\$ 55 \mathrm{OBO} .992-1466$. Chest of drawers w/min
Contemporary oakgilass dining table, $62^{\prime \prime}$ long by 41 " wide, 218 " extension leaves, 6 matching brown suede/oak chairs, matching brown suede/oak china cabinet, all in good cond, $\$ 650.326-2307$.
Kg sz waterbed
Kg sz waterbed w/12 under drawers, needs
heater, dk cherry wood, $\$ 100 . \times 35267$ or 326 -5027 Pillow-back couch, blue/gray stitching, $\$ 200$.
Par Marisa, x 30269 .
Lg coffee and end tables, pecan wood, smoke mir-
ror inserts on top, $\$ 75$ ea. $480-2444$. Sofa and lope seat
Sofa and love seat, cream w/pale neutral colors,
unused, was $\$ 1 \mathrm{k}$ now $\$ 600$. Susi or John, 482-0647. Dining rm set, table, 6 chairs, hutch, $\$ 1.8 \mathrm{k}$. Tony,
$\times 35966$.

## Two 6 -drawer chests, $\$ 45$ and $\$ 35 ; 1$-drawe chest, $\$ 25 ; 2$ pr drapes, $\$ 10$ ea; rods $\$ 5$ ea; 2 foldin

 chest, $\$ 25 ; 2$ pr drapes, $\$ 10$ ea; rods $\$ 5$ ea: 2 foldingdoors, $\$ 8$ ea; 1 oil painting 2 ,

## doors, 3425. an.

On sleeper sectional sofa, multi-color brown tweed, ex cond, was $\$ 1 \mathrm{k}$, now $\$ 400$; oblong redwood
patio table, $62^{\prime \prime} L \times 43^{\prime \prime} W, 2$ chairs, $\$ 175.486-1177$. pailo table, $62^{\prime \prime} \cdot \times 43^{\prime \prime} W, 2$ chairs, $\$ 175.486-1177$.
White washed pine, Southwest style, etagere \$150. 474-7883.
 $\$ 65$ ea; Ig oval platter, $\$ 110.480-2584$

## Kenmore electric dryer, white, approx 5 yrs oid, $\$ 150.480-2584$

Sealy gn sz mattress, box springs/frame, $\$ 175$
sofa, $92^{\prime \prime}$, white, contemporary, ex cond, $\$ 200$
matching love seat, $\$ 100$; oak coffee table, corne
able, $\$ 40$ ea; oak finish hutch style computer desk 550 ; matching printer stand, $\$ 20$. Bill, 286 -1858.
Frigidaire Delux single oven, almond, good cond

Wanted
Want male roommate to share LC house, private
bath, $\$ 325 . \mathrm{mo}+12$ util Re
Want '83-87 Chevy S10, X441027, fenders. Allen, $\times 37030$.


## Office of Space Flight announces personnel changes

Associate Administrator for Space Flight Jeremiah Pearson last week
announced key personnel changes announced key personnel changes
in the Office of Space Flight (OSF) at in the Office of Space Flight (OSF) at NASA Headquarters.
Effective immediately, Tom Utsman, currently OSF deputy associate administrator, space shuttle, Center, to become special assistant to the associate administrator for OSF. Bryan O'Connor, OSF deputy associate administrator will replace Utsman and also serve as space shuttle program director.
Effective May 9, Richard Wisniewski, who retired from NASA in 1990 after a government career spanning 35 years, is returning to NASA to replace Bryan O'Connor as deputy associate administrator, OSF
Pearson also announced that Michael Mann, OSF deputy associate administrator for management, has been named deputy associate

Office of Mission to Planet Earth at NASA Headquarters. Wisniewsk also will serve as OSF's acting deputy associate administrator for management.
As Space Shuttle Program director, O'Connor will assume responsibility for the management of the Space Shuttle Program. O'Connor, a former NASA astronaut, served as commander of the first Spacelab Life Sciences mission, STS-40, in June 1991, and as pilot on mission 61-B in November 1985. During the period November 1985. During the period following the Challenger accident, Space Shuttle Program manager from March 1986 until February 1988.

O'Connor helped guide the effort that led to the resumption of shuttle flights in September 1988. He is a distinguished Marine Corps pilot and graduate of the U.S. Navy Test Pilot School. He also is a graduate of the
U.S. Naval Academy and earned a Aeronaution Science degree in University of West Florida. O'Connor served as an astronaut from 1980 to 1991.

Utsman will be returning to KSC where he held a number of key positions, including deputy director from August 1985 until his assignment to NASA Headquarters in January 1990.

Utsman's first assignment at NASA Headquarters was deputy associate administrator for space flight for management which he held for approximately six months prior to being named deputy associate administrator in June 1990. He was named space shuttle director in June 1992.

Utsman began his career in 1963 as a facilities design engineer for the Apollo Program. He holds a bachelor of science degree in mechanica ngineering from the University of

Michigan and a masters degree in University
Wisniewski currently is director Program Analysis Group, General Research Corp., Vienna, Va. His last position at NASA was as the OSF deputy associate administrator for institutions. The OSF deputy associate administrator is responsible for resources, policy and plans, human resources and management of the four Space Flight installations KSC, JSC, the Marshall Space Flight Center and the Stennis Space Center.
Wisniewski began his career at the Lewis Research Center as an aeronautical research engineer. He was staff scientist for the OSF during the Apollo Program, director o advanced concepts in the forme Office of Aeronautics and Space Technology and deputy associate administrator for the center opera ions in the former Office

Management, Washington, D.C Wisniewski has a bachelor of sci ence degree in physics from John Carroll University.
Mann was named OSF deputy associate administrator for management in July 1993. Prior to that, he served as the director of resource management responsible for man aging the OSF's budget. Before join ing the OSF he spent nine years in NASA's Comptrollers Office in a variety of cost analysis and resource management positions includin deputy directo positions inclualysis Division. In that position Mann had oversight responsibility Man NAS programs and played a key role in the development of NASA program control and financial management policies.
A U.S. Army veteran, Mann is a graduate of the Virginia Polytechnic Institute with an masters in business administration in Operations Research.

## Fellowship participants selected

Seven JSC employees will participate in this year's Fellowship
Program which provides them the Program which provides them the
opportunity to attend graduate school full time for one year on a leave-with-pay basis.
"Advanced academic training is a very effective way to enhance a person's professional growth," said development specialist.
The people selected to receive this year's fellowships are: Linda Ham, Rick Davis, and Debbie Bulgher, all of the Mission Operations Directorate; and Tam Ngo, Julie Kramer, Steve Munday, and Pam Denkins, all of the Engineering Directorate
Ham will attend the Naval Postgraduate School pursuing a master's degree in space systems operations. Davis will attend the University of lllinois pursuing a master's degree in aerospace engineering, while Bulgher will attend Rice University studying for a doctorate in space physics and astronomy.
Ngo will work toward his master's in intelligent robotic systems software engineering at the University of Texas-Austin. Munday also will ter's degree in aentin pursuing a masing, guidance and control Krame will be attending the University of will be attending the University of Utah, pursuing a master's degree in mechanical engineering and Denkins will attend Texas Southern University working toward a master's degree in mathematics.
Fellowship candidates are nominated from their organizations Selection criteria includes the applicability of the chosen area of study and its effectiveness in contributing to achieving JSC's mission and goals; a brief statement of academic purpose from the applicant; prior academic coursework completed; a written recommendation from a divi-sion-level chief; and the level of activity in the employee's office and the employee's own workload.

## Space News Roundup

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FACING THE FUTURE - When Larry Bell, manager of the Cargo Engineering Office retired, he walked through a gauntlet of "Larry Bells" as fellow employees donned masks of his face to wish him goodbye. Bell was subsequently whisked away to his retirement in a rocking chair mounted in the back of a pickup truck.

## Space Station debates commence in Congress <br> (Continued from Page 10

ing cost of $\$ 17.4$ billion through the
completion of assembly in 2002 Brinkley said some cost issue between NASA and the prime contractor, Boeing, still remain unresolved, but the program is committed to staying well within the allocations.
"We believe that this is an executable program, but the current funding level is not without major challenges," he said. "All of us in the program believe that if we get through this budget cycle we'll be able to demonstrate, over the nex year, our ability to stay on schedule and within the budget.
Members of the House of Representatives are expected to vote on the NASA FY'95 appropria tion in late June or early July. The Senate appropriations vote will fol low, as will the authorization votes later in the year
"Passing the House appropriations bill will be a major milestone," Brinkley said. "It's the first test. We anticipate that station opponents will try to cancel the program again this year, but we also believe that this program can withstand the intense scrutiny. I do not believe that this program will fail for any reason internal to the program." eason in preparation for this debates the program office alread debates, the program office already has had an extensive exchange o information with members of Congress and their staffs. Managers also have met with severa key independent review groups and have responded to a variety of questions regarding the program.
exchanges with Congressional staffers and various review groups as candid, open and honest.
"There are no issues we haven't addressed in great detail," he said, "and because of this ongoing dialogue I believe we've already answered a lot of the uncertainties and criticisms surrounding the International Space Station

Among the reviews the program underwent this year was the former Vest Committee which recom mended the initial redesign option for the Space Station Program last year. The group met at JSC in March, following the System
Design Review, and gave glowing Design Review, and gave glowing endorsements of the current plan. Dr. Charles Vest, president of Massachusetts Institute of Technology and committee chairman, said the redesigned program "has progressed to an extent that greatly exceeded my expectation.
"That was certainly a vote of confidence to us that we're heading in the right direction," Brinkley said. "It the Congress and the public." the Congress and the public.
the reviews and exink success of the reviews and exchanges to the members of the station program team.

What has impressed me most since joining the program in January is the dedication and moti vation of the people in the program and their commitment to the pro gram," he said. "It's a real catalys and motivator to me personally.
"I expect the station to be funded for FY'95, and I am convinced that we can build a space station on time and in budget."

## Eclipse to shadow Houston

sign from the gods. The sun would darken in the mid dle of the day casting a shadow on the frightened peasants below. It was an omen, a curse or a prophecy was things to come
Now, the peasants are no longer rightened.
On May 10, they will use tele scopes, welders' masks and card board to study the phenomena in the sky as the entire United State experiences a solar eclipse.
In the Houston area, the eclipse will begin at 9:51 a.m. when the dark moon's disk will be seen along the upper westward edge of the sun.
At 11:26 a.m. when mid-eclipse occurs, the moon's disk will cover 71 percent of the sun which will be about 62 degrees above the east southeastern horizon.
Viewers in a narrow band stretching from El Paso to Halifax, Nova Scotia, will see an annular eclipse with the moon directly in front of the sun, covering about 79 percent of its surface. In an annular eclipse the
moon's disk is smaller than the sun's disk so a ring of sunlight will sur round the moon during mid-eclipse will see elsewhere, as in Houston the dark new moon covering only a portion of the sun
The eclipse will end at 1:18 p.m when the moon's disk leaves the sun's face.
The JSC Astronomical Society will set up several telescopes at Space Center Houston for safe viewing of the solar eclipse. The viewing area will be open to all JSC contractors and employees. Contractors may gain free access to the viewing sigh by showing their badges at the park ing toll booths.
Observers also can use No. 14 welders glass or create a projector by poking a hole in a piece of card board or aluminum foil and viewing the image on the ground or a piece of paper.
When observing an eclipse, do not look directly at the sun and never use binoculars or a telescope unless it has a professional solar filter.

## Employees recognized for source board activities

More than 20 people recently JSC's Source Evaluation Boards. Director of Procurement Robert Easley presented the awards which recognized the significant contributions each person made to the acquisition process. The source boards were conducted for several major competitive procurements.
The Source Evaluation Boards receiving awards were the Aircraft Simulation and Information Systems Board, the Construction Support Services Board and the Program

