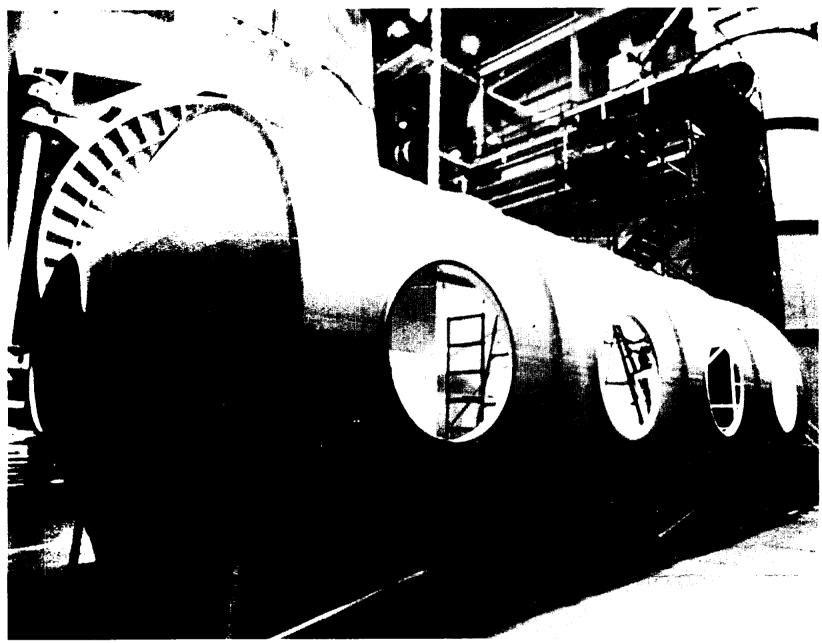
pace News Roundup)

Vol. **23** No. 7 April 6, 1984

National Aeronautics and Space Administration



A mockup of the habitable module of a space station is taking shape in Bidg. 32 as work progresses on Phase A of the Space Station Program. The mockup will be used for equipment interagation and training in much the same way that Shuttle mockups in Bldg. 9A are now employed.

Moore will take over Code M job

Jesse W. Moore will assume the duties of Acting Associate Administrator for Space Flight in Code M at NASA Headquarters effective

This follows the March 27 appointment of Associate Administrator Lt. Gen. James A. Abrahamson as Director of the Strategic Defense Initiative program within the Department of Defense.

The announcement of Abrahamson's appointment to the new post was made by Defense Secretary Caspar W. Weinberger at the Pentagon. Noting the first anniversary of President Reagan's call for a comprehensive ballistic missile defense program, Weinberger said the appointment of a program manager "represents the last of the major tasks that must be completed before the President's Strategic Defense Initiative can begin to work in earnest.'

Abrahamson's appointment becomes effective April 15.

Moore, who began his NASA career at the Jet Propulsion Laboratory in 1966, has held several high-level positions within the Agency.

He earned a bachelor's degree in engineering in 1961 and a master's in engineering in 1964 from

(Continued on page 2)

JSC deer herd, less 12, is well-fed

the estimate of JSC's deer herd size when groundskeeping contract manager Ray Meyer asked the Texas Parks and Wildlife Commission to move some of the animals to the East Texas whitetail herd. Twelve JSC deer have been moved so far. The reasons were to protect some of the deer from the hazards of the new road and provide a little relief to the JSC landscape from the ravages of the hungry, though exceedingly healthy, deer.

Compared with about 58 deer

More than 100 and growing was JSC's deer family indicates JSC may set a tastier table than any of its neighbors. Further evidence of this theory is the disappearance of 100 rosebushes in one night or the short life of 450 new Indian Hawthorn plants.

> These shrubs are just a sample of the goodies devoured by JSC deer, not to mention their dinner guests, Armand Bayou deer which regularly hop the six-foot-high chain link fence to sample the landscape's latest offerings.

'We've even tried putting dif-

to the deer," Meyer said.

Whitetail deer do not eat grass, according to TP&W Commission regional director Don Frels, unless nothing else is available. Brush is their main diet, and if shrubs are handy, so much the better. Texas has the largest deer herd in the country, numbering three million, and it increases by 25 percent every year, according to Frels. Hunters take only 10 percent of the state's deer herd annually, not enough to control the deer population.

Bayou Nature Center, the size of the plants to make them unpalatable other wildlife on center property project took place in late January subsequent years.

are considered part of the family by most people at JSC, and no one wants to see the animals hurt. Anticipated traffic on the public road under construction across the northern section of the center will pose a major threat to the deer population. In addition to traffic accidents, poaching-already a problem—is expected to increase drastically. The prospect of injured or maltreated animals, another likely byproduct of the road, makes moving as many deer as possible very desirable.

The deer cap

and early February, when TP&W wildlife biologist David Ried, assisted by JSC groundskeeping personnel, swung into action. For several evenings corn was set out as bait to condition the animals to coming to the same palce. Then nets were put in place and left until the deer became accustomed to them.

In the predawn hours of February 7, the nets were dropped, and twelve deer were captured—not the twenty to twenty-five hoped for, but enough to make the effort worthwhile and justify trying again

Tethered Satellite gets U.S., Italian O.K.

NASA and the Italian National Research Council signed two agreements during NASA Administrator James Beggs' recent European tour which will establish the development of the Tethered Satellite System and the development and launch of the Laser Geodynamics Satellite-2 (Lageos-2).

The Tethered Satellite System (TSS) is a data-gathering satellite that will be carried into orbit by the Space Shuttle and released from the payload bay on a tether. It will provide an important new reusable, multidisciplinary facility for conducting space experiments in Earth orbit, and will open the way to several areas of long-term scientific experimentation not otherwise

The system will consist of a

deployer mounted in the payload bay of the Space Shuttle to deploy and retrieve a tethered satellite (weight approximately 500 kg) upward or downward from the Orbiter at distances up to 100 km.

NASA will develop the TSS deployer, perform the system-level engineering and integration and launch TSS on the Shuttle. CNR will develop the two-module (science and service) TSS satellite and provide system-level support to NASA for technical aspects of the satellite.

NASA and CNR will jointly plan and implement the initial tethered satellite mission to verify system engineering and conduct electrodynamic scientific investigations.

The initial mission will be flown in late 1987 to verify controlled deployment, operation and retrieval of the tethered satellite, and to investigate interaction of the satellite with space plasma.

Eleven countries in 20 locations are conducting laser ranging activities with the passive Laser Geodynamics Satellite-1 (Lageos-1) launched by NASA in 1976. The agreement that was signed by NASA and CNR outlines the terms for the development of Lageos-2 which will significantly enhance study and understanding of the solid Earth and its dynamic process.

Lageos-2 will be identical in configuration to Lageos-1 and will be placed in an orbit of similar altitude but with a different inclination (51-53 degrees prograde instead of 70 degrees retrograde).

Lageos-2 will also be a spherical satellite with a diameter of 60 centimeters and weighing approximately 411 kilograms and will be launched by the Space Shuttle.

Lageos-2 will contribute to the study of plate tectonics and to the study of the accumulation of crustal strain in areas of high seismicity through very accurate measurements of baseline changes resulting from crustal motion. The two satellites, in essentially opposite orbits. will improve the precision of current laser determined baselines by a factor of two and will make possible achievements of a precision of 1 centimeter for baselines of several thousand kilometers.

These improvements will particularly benefit studies of regional crustal deformation associated with the occurrence of earthquakes in the Mediterranean area being undertaken by the United States and a consortium of European countries. Similarly, studies of the San Andreas Fault System will benefit from Lageos-2 and from the Mediterranean studies.

CNR is responsible for the fabrication of the Lageos-2 satellite, integration of the apogee stage and the Italian Research Interim Stage and delivery to NASA. NASA will provide existing ground support equipment, hardware and software remaining from the Lageos-1 mission, technical consultation and launch on the Space Shuttle as a payload of opportunity with a planned launch in 1987.

Space News Briefs

Solar Max could observe comet

If all goes according to plan during this week's Solar Maximum Mission satellite repair on the 41-C flight, the solar observatory may not only resume studying the Sun, but could also be used to observe Comet Halley in 1986. Solar Max Repair Project Manager Frank Cepollina of the Goddard Space Flight Center told Aviation Week and Space Technology that repair of the Main Electronics Box on the satellite would be necessary to allow the comet observations. The MEB repair, one of the more difficult tasks associated with the SMM orbital overhaul, would restore the Coronograph/Polarimeter instrument to working order. That instrument would be used to photograph the comet during its closest approach to the Sun, Cepollina said.

RFP issued on communications platform

The Marshall Space Flight Center has issued a request for proposals (RFP) inviting aerospace firms to describe how they envision large multipurpose geosynchronous Earth orbit (GEO) space platforms. Two firms will be chosen to conduct parallel studies. The two 21-month contracts, expected to be awarded in May, will be valued at \$550,000 for each firm selected. The study is meant to focus on the idea of integrating communications, space science. Earth observations and data collection missions into one or more large platforms, rather than filling valuable slots in GEO with single satellites devoted to any one of those purposes. NASA also believes such platforms would be more economical to build and operate. "The platform would allow us to aggregate all of these services," said Study Manager Bob Durrett, "each of which would ordinarily require a separate satellite, into a single entity. Aggregation allows 'economy of scale' by using common utilities like power supply and attitude control. It's cheaper to build and operate one big platform than a lot of small, separate satellites."

Bulletin Board

IBM-PC users group formed

Seventy-eight computer enthusiasts met March 20 to organize a new IBM Personal Computer users club called the Bay Area PC Organization, or BAPCO. Temporary officers were elected to organize the club, and other organizational details are expected to be finalized in time for the next meeting April 17 at 7:30 p.m. at the Ford Aerospace Bldg. on Gemini Ave. Interested PC users are invited to attend, and are reminded that club news can now be found on several of the electronic bulletin boards in the area. For more information, call Earl Rubenstein at x3501 or Joe Hartman at x3811.

Tom Wolfe to speak at UH-CL

Tom Wolfe will discuss his book "The Right Stuff" and answer questions from the audience during an appearance at the University of Houston-Clear Lake April 12. The two-hour lecture, presented by the UH-CL Speakers Committee, begins at 8 p.m. and will be held in the Bayou Bldg. Auditorium. Tickets are \$4 with a UH-CL identification card, \$5 for the general public in advance and \$6 at the door.

Osborne users group to meet

The Clear Lake Osborn and CP/M Group (CLOG) invites interested persons to attend the next regular meeting, which begins at 9 a.m. Saturday, April 14 at the Gilruth Recreation Center. The group offers presentations, question and answer periods and educational opportunities. CLOG members have access to a public domain library of over 100 discs. For more information on the meeting or the group itself, call Maynard Huntley at x6441 or write to P.O. Box 57613, Webster, TX, 77598

JSC Picnic is May 5

Tickets go on sale April 9 in the Bldg. 11 Exchange Store for this year's JSC Picnic, "The Picnic With the Right Stuff," to be held from 11 a.m. to 5 p.m. May 5 at the Gilruth Recreation Center. The picnic will feature a Texas barbeque dinner, skydivers, a dunk tank, an obstacle course, the Almost Anything Goes contest, softball, volleyball, a horseshoe tournament, a battle of the bands and Johnny Dee and the Rocket 88's, a 50's and 60's rock and roll band. There will also be rides for the kids and bingo. All federal and contractor employees and retirees are welcome. Tickets are \$3.50 for adults and \$2.50 for children.

NMA organizational meeting set

Persons interested in the formation of a National Management Association chapter at JSC are reminded of an organizational meeting to be held at 5 p.m. April 19 in the Bldg. 2 Visitor Center auditorium. The information session is scenduled to last not more than one hour.

Swigert Memorial Ball planned

Singer John Davidson will be the featured performer at this year's Swigert Memorial Ball April 28 sponsored by the Bay Area Chapter of the American Cancer Society. The ball is named for former astronaut Jack Swigert, who lost his life to cancer in December 1982. The theme of this year's fundraiser is "April in Paris," and several of the prizes to be awarded by drawing-including an expense-paid trip to Parishighlight that theme. For more information, call 332-8571 or 338-1551.

Vintage radio show and auction set

The Houston Vintage Radio Association will sponsor a show and auction from 9 a.m. to 5 p.m. April 28 at Gulfgate Mall. Everything from crystal sets to cathedral-type table radios will be on display. The auction of vintage radio equipment will begin at 1:30 p.m. and is open to the public. For more information, call Dave Moore at x2886 or 485-1705.

NASA Space News Roundup



Three Outstanding Secretaries named

the months of December, January and February are, respectively, Norma J. Dell'Osso, Sharon L. Hardy, and Mary R. Ledoux. Each was presented with a desk plaque and a \$500 award by Center Director

Norma Dell'Osso, Outstanding Secretary for December 1983, is secretary to Edgar C. Lineberry, Jr., Deputy Chief of the Mission Planning and Analysis Division, where she provides clerical support, coordinates inter-branch clerical activity, provides guidance to tranch secretaries on clerical matters and assures the quality of outgoing correspondence. In the performance of her assigned duties, her supervisor said, "Ms. Dell'Osso has c'isplayed outstanding initiative, creat vity, attitude, cooperativeness, motivation, versatility and dependability, while maintaining a very high level of clerical work quality.

When MPAD upgraded its word processing system to the latest Xerox equipment, she "exhibited a great deal of initiative, selfmotivation and dedication in learning to use this new capability in an effective manner, thereby enhancing the efficiency of the division office," according to Lineberry. She quickly became the resident expert for the relatively sophisticated system, applying what she learned in the training of other secretaries.

At the request of other organizations across JSC. Dell'Osso also provided numerous demonstrations of the capabilities of the system. All of this was accomplished while maintaining high quality performance of her other duties. "For all of the above, plus her many accomplishments, too numerous to mention in this limited space, Ms. Dell'Osso certainly deserves recognition as Secretary of the Month, Lineberry said.

January's Outstanding Secretary, Sharon L. Hardy, is secretary to Robert W. Moorehead, Manager of the Shuttle Avionics Office. "An extremely competent, highly motivated and loyal employee," according to Moorehead, Hardy 'assumed and mastered the complex and demanding responsibilities of the Avionics Office in a very

JSC's outstanding secretaries for short time and has continuously worked to improve office routines and procedures, much of the time during the last three years providing support to the entire staff singlehandedly."



Norma Dell'Osso



Sharon Hardy



Mary Ledoux

Moorehead also praised Hardy's "highly polished and professional" secretarial skills and her effective work with the office technical staff, as well as with representatives of other offices at JSC and other centers, various program contractors and subcontractors. Hardy's quick mastery of equipment to automate office correspondence, documentation, and presentations, he said, "has enhanced the timely editing and preparation of final products immensely. Her attitude has been extremely positive in all aspects of her work, and her pleasing personality has led to a very pleasant office atmosphere."

Mary R. Ledoux, February's Outstanding Secretary, is secretary to Donald C. Wade, Chief, Structure and Thermal Division. According to Wade, a combination of events during the past year, including heavy involvement in supporting Shuttle operations, preparations to handle a potential new program, a major division reorganization and implementation of a word processing system, combined to make the past year one of the most hectic in the division's history.

"Ms. Ledoux responded to these challenges in an outstanding fashion," Wade said. "While training new secretaries, she also picked up some temporary administrative duties and several times was required to act as branch secretary until one was hired. She always went the extra mile in being helpful to the branch secretaries; her concern for people is characteristic of Ms. Ledoux. At the same time she was taking care of more than her share of the wave of secretarial work of arranging travel, setting up meetings and telecons, receiving visitors, determining appropriate actions, keeping the staff calendars, and processing mountains of correspondence.

She was one of the first division secretaries in the Engineering Directorate to implement the new word processing system, arranged for training for branch secretaries and helped plan future office automation requirements. Wade complimented the high standards Ledoux sets for herself and said she "has proven herself to be truly an outstanding secretary at a very critical and demanding time."

Moore becomes new AA

(Continued from page 1)

the University of South Carolina at Columbia. From there he went to General Dynamics, where he worked until joining the staff at JPL in

While at JPL, he worked in a variety of areas, including guidance and control and advanced programs. His last assignment at JPL before coming to NASA Headquarters in 1978 was a Science and Mission Design Manager for Project Galileo.

At Headquarters, his first post was as Deputy Director of the Solar and Terrestrial Division within the Office of Space Science. Moore was Director of the Spacelab Flight Division until December 1981. when he became Director of the Division. In February 1983, he was appointed Deputy Associate Administrator for the Office of Space Flight.

Moore is a member of the American Institute of Aeronautics and Astronautics and a senior member of the American Astronautical Society. He and his wife, the former Brenda Kay Polson, have two Earth and Planetary Exploration children and live in Vienna, Virginia.



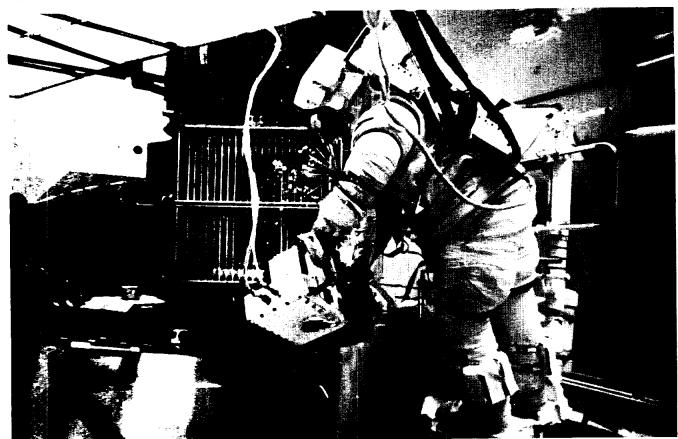
Historian Dr. William David Compton, now working at JSC on a history of the Apollo Program scientific achievements, was presented with the Dr. Robert H. Goddard Historical Essay Award during ceremonies sponsored by the National Space Club March 16. The award was given for Compton's essay, "The Rocket as Spacecraft: Spent Stages in Manned Space Flight." The award is given for originality, scholarship and contributions to the historical record of astronautics and rocketry. The Goddard Trophy for contributions to astronautics was given this year to Florida Congressman Don Fuqua for his continuing support of the space program in the U.S.

They bill themselves as "the recently. Team members pictured World Famous Red Baron Cooking Team," and while world famous may be stretching it, they do know how to cook. The team recently took top honors in the 1984 Houston St. Patrick's Day Irish Stew Cookoff, held at the Airstrip Pub in Houston Glenda Lancon.

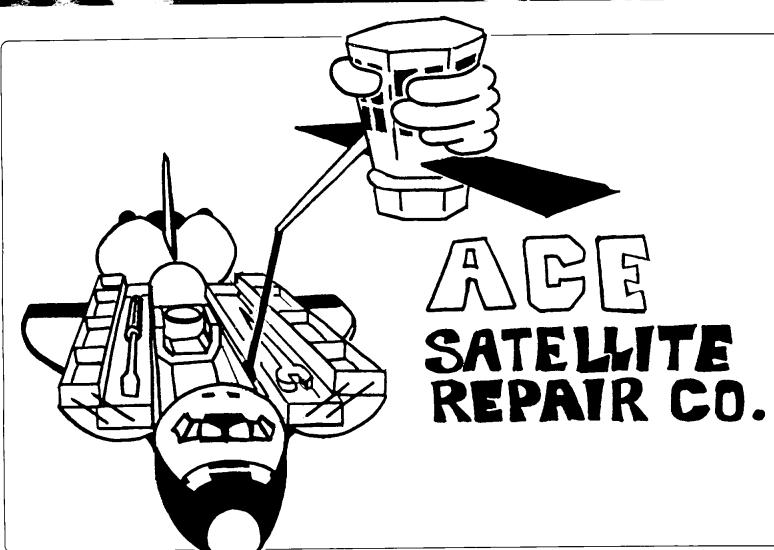
in the accompanying photo are, from left to right, Mary Ann Cambiano, Ann Walker-Voss, Sandy Richardson, team captain Larry Griffin, Mary Lee Meider and



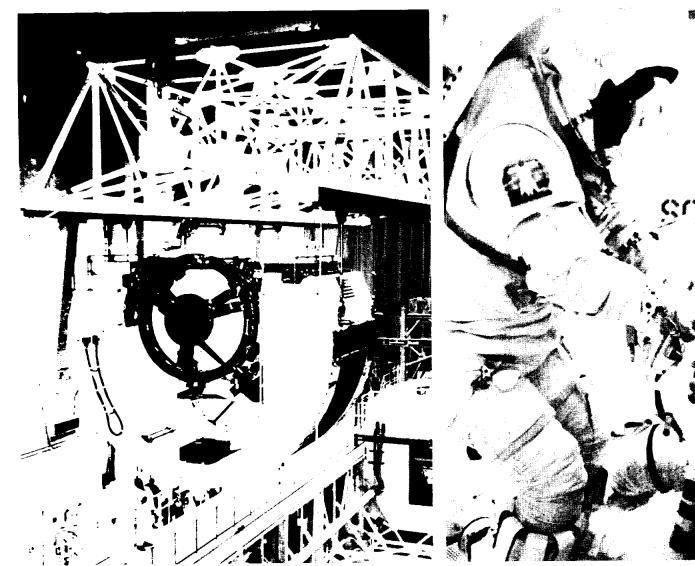
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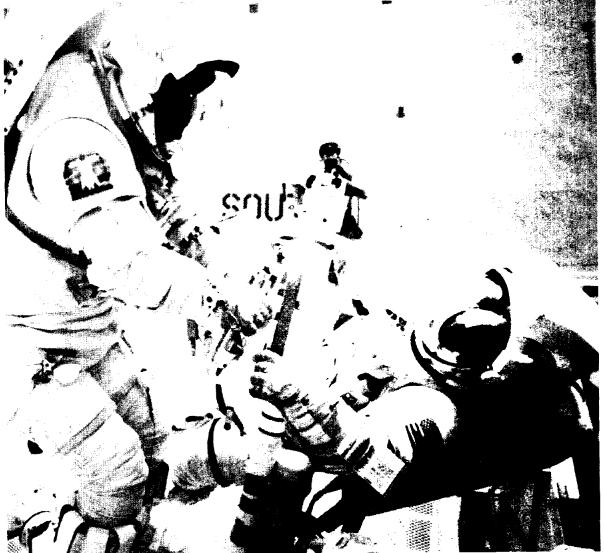






Preparing for this week's Solar Max repair has been a consuming job at JSC for several months. Above left, Mission Specialist George Nelson practices with a battery-powered torque wrench in the Weightless Environment Training Facility in Bldg. 29. The torque wrench, supplied by the Goddard Space Flight Center, will be used to loosen the bolts which hold the Solar Max attitude control system in place. At top right, Nelson, simulating Manned Maneuvering Unit flight, confers with a support diver through sign language. At left is one of Marvin Le Blanc's "Ace Satellite Repair Co." cartoons for this mission, which will grace the daily Flight Execute Package and other documentation for 41-C. Le Blanc, who works for OAO Corp. in the Flight Activity Branch, Operations Division, draws similar cartoons for each flight. Below left, the Flight Support System, which will be used to hold the Solar Max while repairs are underway, is shown at the Cape prior to being loaded for the flight. Below, Nelson and James Van Hoften work at the Manipulator Foot Restraint during a recent simu-





Gilruth Center News

Almost anything goes — Teams may now enter this series of contests which will lead up to finals during the JSC Picnic May 5. Teams consist of 4 males and 4 females and the rules for this competition are known only to the Rec Center staff. Deadline for entries is April 25.

Photography — Basic camera techniques are covered in this six-week course which begins April 17. The class will run from 7 to 9 p.m. and the cost is \$25 per person.

Game night — By popular demand, the Rec Center will open Friday nights for people to play cards, dominos and other games. Call the Rec Center office at x3594 for more details.

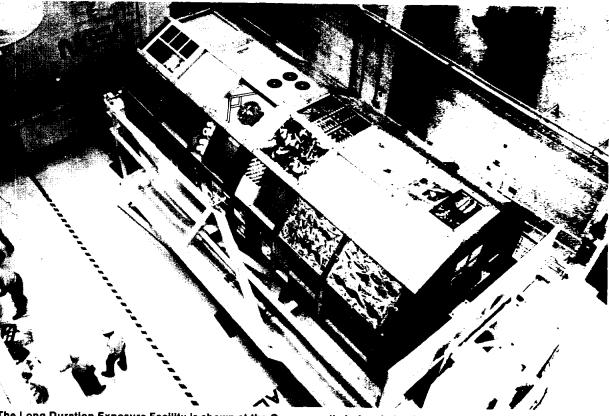
Inter-center races — Races at JSC will run from April 9 to April 26 in 10-kilometer and 2-mile categories. One Saturday race will be held beginning at 8 a.m. April 21. The races will be held every Monday through Thursday night beginning at 5:15 p.m.

USVBA tryouts — For information on tryouts for the United States Men's Volleyball team, contact Helen Munk at x3594.

Country western dance — This popular course is available beginning April 16 in beginning and advanced classes. The beginners class meets fro 7:15 to 8:45 p.m., while the advanced class meets from 8:45 to 10:15 p.m. The cost is \$24 per couple, limit 15 couples per class.

Dancercise — Get in shape with this six-week dance and exercise class. which meets Tuesdays and Thursdays from 5:15 to 6:15 p.m. beginning April 16. The cost is \$25 per person.

Defensive driving — Learn to drive safely and qualify for a 10 percent reduction in your auto insurance for the next three years. The next class meets Saturday, May 19 for 8 a.m. to 5 p.m. at a cost of \$20 per person.



The Long Duration Exposure Facility is shown at the Cape recently before being loaded into Challenger. LDEF will be deployed during the second flight day of Mission 41-C.

Roundup Swap Shop

Ads must be under 20 words total per person, double spaced, and typed or printed. Deadline for submitting or cancelling ads is 5 p.m. the first Wednesday after publication. Send ads to AP 3 Roundup, or deliver them to the Newsroom, Building 2 annex. No phone-in ads will be taken. Swap Shop is open to JSC federal and on-site contractor employees for non-commercial personal ads

Property & Rentals

For rent: Vacation week in Galveston condo, 2 BR, sleeps 6, fully furnished, Apr. thru Sept., \$325/week. Call Jim, x3751 or 554-7677

For rent: Galveston-by-the-Sea condo, 2 BR, furnished, for rent by day (2 minimum), week or month. Call Clements. 474-2622.

For rent: Galveston condo/seawall, maid, gym, club, parties, fully furnished w/cable TV, stereo, 6-sleeper, \$600. Call Lisa. 480-8800 or 331-8177.

For rent: Family vacation in New Braunfels, lovely 2-2-2 above Lanoa Park, early-bird prices, 3, 4 or 7 days, \$200-\$350, May 1 - Sept. 1. Call 482-

For lease: Forest Bend townhouse, 2 BR, 1.5 bath, ceiling fans, 2-story, large patio, \$395/mo. Call Betty Craig, x4031 or 1-420-2936

For lease/rent: House in Friendswood, 3-BR, 2-bath, garage, lawn, trees, refrigerator, microwave, 14 mi. to schools, \$525/mo. Call 482-6816, 483-3566 or x3781

For rent: 2 BR apartment, W/D hookup, fireplace, storage area, upstairs unit, \$375/mo., \$200 deposit. Call Shelly,

480-6742, after 6 p.m. For lease/option to buy: Heritage Park, 4-2-2, 2806 Pilgrims Pt., qualified tenant share in future appreciation,

\$575/mo. Call 480-1347. For lease/sale: Baywind II custom studio, 1-1-1, next to pool, F/P, W/D connection, \$375 plus deposit. Call

Elaine, 334-2402 or x3803. For sale: League City/Countryside Oaks, 4-2-2, 2,000 sq. ft., F/P, patio, \$86,000-89,000 flexible, special buyer's

discount. Call Jim, x3751 or 554-7677. For sale: Investment buy, Pebblebrook condo, near CL, 2-2, vaulted ceiling, F/P, 1,070 sq. ft., all appliances, \$45,000 nego., assumable 10%% fixed, \$6,800 equity, \$457/mo. Call Linda, x4086 or 480-3771 evenings.

For sale: 4-2-2, formal living room, den w/rock fireplace, 1½ lot fenced, Alvin, recently redecorated. Call 331-

For sale: Heritage Park, 3-2-2, 8.5%

nonescalating loan, approximately \$27,500, payments \$368, under market at \$58,500. Call Quinn, x4326 or 481-

For sale: Heritage Park, 3-2-2, 1,484 sq. ft., microwave, fireplace, fence, landscaped, 12% VA, \$65,000. Call Ron, x4091 or 996-9734.

For sale: Clear Lake Forest, beautiful 4-21/2-2 in prime neighborhood close to NASA. Call Gary Coulter, x2703 or 538-2161.

For sale: Sagemont Park, large 4-21/2-2, new roof, paint & fence, mid-80's, flexible owner financing available. Call 474-3319 after 4 p.m.

Cars & Trucks

1974 Datsun 610, runs good, AM/FM stereo, 40 mi./gal., carburetor needs minor work, \$550. Call Lorraine, 488-

1975 Plymouth Voyager van, runs, needs work, \$350. Call JJ, x3916 or 334-6821 after 5 p.m.

1972 Pontiac Granville-Deluxe, good condition, big car, \$800. Call Elaine, x3803 or 334-2402.

1968 VW bug, as is, automatic stick shift, blue, 120K mi., still running well, fix-up, most reasonable offer. Call Fred

1977 Chevy PU standard, excellent condition, low mileage, original owner, new windshield/clutch/paint, \$2,500. Call George, 476-9828.

1977 Mercury Comet, 69K mi., runs good, needs tune-up, asking \$1,500. Call 488-8682.

1975 Pontiac Catalina, horrible antirust body, but one owner's all-time best-running moose, \$675/offer. Call Cliff, x4457 or 486-8810.

1976 Toyota Corolla station wagon, 74K mi., good tires, new paint, \$2,200. Call Bob Rao, x6337

1976 VW Dasher hatchback, brown, 80K mi., stick, A/C, regular gas, fuelinjection, good body, bad valve, \$1,800. Call 333-3952.

1974 VW Dasher 2-door sedan, yellow, 65K mi., no A/C, regular gas, good body, fair interior, \$1,600. Call 333-3952. 1972 Pro Street Vega, full frame/roll

cage, glass lift-off front end, many features, show winner, \$10,000 or best offer. Call James, 482-3849 or 482-1286.

1983 Alfa Romeo Spyder Veloce, excellent condition, loaded, aquamarine. Call x2881 or 333-4130.

1982 White Z-28 Chevy, blue sports package, AM/FM/cassette, T-top, under 18K miles, excellent condition, \$8,500. Call 332-4400.

Mobile Homes & RVs

1982 American Heritage mobile home, all appliances, extras, excellent for weekend retreat on your own lot, assumable for balance owed. Call Bob, x5961 or 488-7340 after 5 p.m.

1982 Winnebago 621 motor home, A/C, 3kW, sleeps 5, 18K mi., like new, \$21,000. Call 471-1485 after 5 p.m.

1980 Nomad travel trailer, 21', fully self-contained, roof air, awning, sleeps 6, extra clean, \$6,500. Call Weaver,

Mobile home, 3-ton, self-contained, A/C, works fine, \$200. Call J. Craig, x3977 or 420-2936.

1979 Yamaha 750, windshield, cruise, crash bar, custom seat w/backrest, shaft drive, nice machine, \$1,400 or best offer. Call Frank, x5425 or 332-7383.

1980 Honda 400 custom, like new, 4K mi., crash bar, excellent buy, \$900 or best offer. Call Frank, x5425 or 332-7383.

Yamaha XS-650-SG, under 1,600 mi., back rest, carry case, \$1,200. Call 482-5955.

Boats & Planes

Obtain half ownership in homebuilt single-seat "quickie" by finishing A/C in your workshop, now 60% complete. Your time/craftsmanship needed, not money. Call Larry, x7272 or 486-8657.

Musical Instruments

Lowrey Genie Organ, single keyboard, all sound effects, \$650. Call Mary, x6276 after 2:30 p.m.

Bundy trumpet with new

condition, \$100. Call Vic, x5231 or 538-4260.

Audiovisual & Computers

Futaba FP-TSLK 5-channel radio, used twice, radio w/Bridi 40 and K&B 40, \$160; radio alone \$120. Call Judy, x3470 or x4781.

Black Lab, free to good home, 10 mo. old, obedience trained, good with children and other animals. Call Richard Hill, x5541 or 543-3389.

Dutch rabbits, black/white, pedigreed. 1 buck, 2 does, all 3 \$20. Call Bob. x6196 or 482-7041.

Household

GE 25" color console, good working order, selling for parts cost, \$125. Call lack Zill, 471-7892.

Early American chair and couch, recliner, 2 end tables, Zenith B/W TV. Call Bo Reese, x3754 or 480-0108.

Long 10%' modern sofa, built-in marble end tables, chair and ottoman, dark brown & beige, all \$250. Call

Beautiful gold-leafed ornate coffee table, built-in glass top, very unusual, 450. Call 488-5564.

Norge gas dryer, works okay, \$35. Call 488-3966.

Dishwasher, good condition, \$100.

Call 482-6816, x3566 or x3781. Bunk beds w/mattresses, good condition, \$175; blue left-handed bathtub,

like new, \$185. Call Angle, x2581. Couch and coffee table, \$300; chair free. Call Mike Scott, x5803.

Formica-top table, 30" × 72", metal fold-up legs, suitable for office or home, excellent condition, \$50. Call Mike, 333-2335 after 5 p.m.

RCA 25" color TV console, cherry mahogany, excellent condition, \$200. Call Mike, 333-2335 after 5 p.m.

Moving sale, many household items, large 26 cu. ft., 3-door Kenmore refrigerator, heavy duty W/D, dehumidifier, TV, furniture, etc. Call Jim, x3751 or

Dining table/4 chairs, \$110; handheld Hoover vacuum, new, \$30; paper wall mural, new, \$25. Call Bob Rao,

Miscellaneous

Gas tank, 20 gal., tool box combo for large/small pickup, 14×48×19" high, \$125; aluminum bed cover for small pickup,about 57×75", \$150. Call Don, x4825 or 585-5391.

Candlestick decorator phone, AT&T, ivory, new condition. Call 488-4788.

Round-trip Continental companion air ticket to Denver, good Apr. 1 to May 31 except Easter weekend, \$100. Call Doris Wood, x4203 or 333-2373 nights.

6 Blue Dot softballs, still in boxes, never been hit, reg. \$4.99/ball, all for \$20. Call Vincent, x3194.

York auto A/C compressor, \$35; Datsun 240-Z radiator fan shroud, \$50; misc. VW parts, Holley/Weber carb, \$75. Call Hilton, 333-6106 or 486-4451. Pet carrier, $17" \times 19" \times 26"$ portable

kennel, hardly used, \$25. Call 474-2660.

Want roommate to share 3-BR, 1-11/2bath brick home, ceiling fans, cable, AC, carpet, fenced, no smoking, no pets, \$150/mo + percent of utilities. Call x3643 or 332-8251

Want copy of "Handbook of Astronautical Engineering," ed. by Koelle. Call Dave Hoerr, x3541 or 480-7423. Want Jon boat, 12' or 14', good

condition, preferably with trailer. Call Rick, 488-3945 or x5425.

Want Non-working Commodore 64 system, Apple or other 64K starter computer. Call Hilton, 333-6106 or 486-4415

Electric trains wanted to buy. Call Don. x2449. Want home purchaser of 2,000 sq. ft.,

4-2-2 home. \$1,000 and free week vacation to person who provides buyer and closing. Call Jim, x3751 or 554-7677.

Got an attitude problem?



2101 NASA Road One

Houston, TX

77058

Cookin' in the Cafeteria

Week of April 9-13, 1984

Monday: Chicken Noodle Soup: Weiners & Beans, Round Steak w/Hash Browns, Meatballs & Spaghetti (Special); Okra & Tomatoes, Carrots, Whipped Potatoes. Standard Daily Items: Roast Beef, Baked Ham, Fried Chicken, Fried Fish, Chopped Sirloin. Selection of Salads, Sandwiches and

Tuesday: Beef and Barley Soup; Beef Stew, Shrimp Creole, Fried Chicken (Special); Stewed Tomatoes, Mixed Vegetables, Broccoli,

Wednesday: Seafood Gumbo; Fried Perch, New England Dinner, Swiss Steak (Special); Italian Green Beans. Cabbage, Carrots.

Thursday: Cream of Chicken Soup; Turkey & Dressing, Enchiladas w/Chili, Weiners & Macaroni, Stuffed Bell Pepper (Special); Zucchini Squash, English Peas, Rice.

Friday: Seafood Gumbo; Baked Flounder, 1/4 Broiled Chicken w/Peach Half, Salisbury Steak (Special), Cauliflower au Gratin, Mixed Vegetables, Buttered Cabbage, Whipped Potatoes.

Week of April 16-20, 1984

Monday: Chicken & Rice Soup; Texas Hots & Beans, BBO Ham Steak Steak Parmesan, Beef & Macaroni (Special); Green Beans, Carrots, Au Gratin Potatoes. Standard Daily Items: Roast Beef, Baked Ham, Fried Chicken, Fried Fish, Chopped Sirloin, Selection of Salads, Sandwiches and Pies.

Tuesday: Tomato Soup; Potato Baked Chicken, BBQ Spare Ribs, Mexican Dinner (Special); Squash, Broccoli, Ranch Beans, Spanish Rice.

Wednesday: Seafood Gumbo; Liver & Onions, Baked Turbot, BBQ Ham Steak, Baked Meatloaf w/Creole Sauce (Special); Beets, Brussel Sprouts, Green Beans.

Thursday: Beef & Barley Soup; Chicken & Dumplings, Corned Beef w/Cabbage. Smothered Steak w/Cornbread Dressing (Special); Spinach, Cabbage Cauliflower au Gratin, Parsley Potatoes.

Friday: Seafood Gumbo; Pork Chop w/Yam Rosette, Creole Baked Cod, Tuna & Salmon Croquette (Special); Brussels Sprouts, Green Beans, Buttered Corn, Whipped Potatoes.