



**CASH AWARDEES** — Pictured above are Center employees who recently received cash awards for innovative suggestions, inventions or Tech Briefs. Cash awards ranged from \$25 to \$670.

# ROUNDUP

NASA LYNDON B. JOHNSON SPACE CENTER

HOUSTON, TEXAS



Vol. 14 No. 13

Friday June 20, 1975

## Philatelic Cancellations To Be Available

Several philatelic cancellation services will be provided by the U.S. Postal Service during the Apollo-Soyuz Test Project. Some of these services are listed below for the convenience of customers who wish to place orders. If the mission is delayed or rescheduled, the service will be provided on the actual date the event takes place.

— NASA will accept by mail at the Kennedy Space Center up to five covers from each collector for cancellation with the regular KSC postmark, and will apply a special cachet to each of these covers. They must be addressed in the lower right corner and must be received prior to launch date. Mail orders to "Special Philatelic Cancellation, Mail and Distribution Service, IS-DOC-M, NASA, Kennedy Space Center, FL 32899." No handback service will be provided. Also, the cachet cannot be applied to first day covers or covers bearing the new stamps.

— The Apollo launch is scheduled for 2:50 p.m. CDT July 15, 1975. First day of issue for the two U.S. Apollo-Soyuz commemorative stamps takes place at KSC on that day. Send orders for these cancellations to "Apollo-Soyuz Stamps, Postmaster, Kennedy Space Center, FL 32815." The cost is ten cents per stamp to be placed on the self-addressed envelopes which must accompany orders. Remittance should be by check or money order. The return address should be

written low and well to the left to allow room for the stamp. The limit is 200 cancellations per individual.

— Pictorial cancellations marking the link-up of Apollo-Soyuz spacecraft will be applied to mail received at Houston and at KSC by July 17. Orders for the cancellations should be addressed to "Link-up Cancel," in care of the Postmaster, Houston, TX 77013, or for the KSC cancel, Postmaster, (Continued on page 4)

## REACT Ends Soon

JSC Cost Reduction Officer Merv Hughes has announced that the REACT Program (Reduce Every Agency Cost Today) will end in July. "We need much more participation by all employees if the program is to be as effective as it can be," he said.

REACT was initiated in January 1975 when Dr. Christopher C. Kraft, Center Director, sent a memorandum to all employees (Continued on page 2)

## Throughout NASA

### PROPOSALS

Scientists of the U.S. and other countries have been invited by NASA to propose investigations for use of data from the first mission of a series of small, low-cost spacecraft called Applications Explorers. Applications Explorer Mission-A, scheduled for launch aboard a Scout rocket in late 1977 or early 1978, is designated the Heat Capacity Mapping mission.

### ION ENGINE

Payload gains of up to 20 percent in future NASA spacecraft are predicted as the result of the (Continued on page 4)

## Employees' Brainstorms Net Significant Cash Awards

Innovative suggestions, inventions and Tech Briefs have once again netted a number of JSC employees significant cash awards.

John I. Papac, who had previously received \$1000 for his "Elimination of Duplicate Taxes" suggestion, was awarded an additional \$670 because of the NASA-wide application of the proposal. His suggestion relates to NASA reimbursement of contractor expenses associated with the payments of social security and unemployment taxes. Estimated savings to JSC for CY 1973 were \$56,000. Final review by NASA Headquarters reflects a NASA-wide evaluated cost savings of \$565,399.70.

Awards of \$100 each went to Lewis O. Casey, W. Paul Hilk and David L. McCraw. Casey recommended that the JSC Safety Manual be changed to require labeling of all circuit junctions and panels containing autostart generators; Hilk suggested a method of modifying lunar sample trays to expedite inventory; and McCraw proposed fabricating and installing a curved plate for use in paper towel dis-

pensers having oversized outlets, thus eliminating paper towel waste.

Other suggestions concerning safety, improving and eliminating JSC forms, etc., resulted in awards of \$25-\$75 to employees. Recipients include Burney Goodwin, Mona Kazmierski, Wilma Trahan, Austin Frost, Wayne Koons, Arnold Loyd, Sandra Burdsal, Robin Stuart, Stewart McAdoo, Jr., Sue A. Newton, Kent Castle, Michael Costigan, Emmit Fisher and David Schultz.

Invention awards of \$500 each were presented to John A. Rummel and Edward L. Michel (Metabolic Analyzer); Leo G. Monford received a total of \$350 for two inventions including a Digital Communication System and a Binary Concatenated Coding System; Donald C. Cheatham and Richard Reid each received \$125 for inventing a Spacecraft Docking and Alignment System.

Also, a number of employees received \$50 each for authoring Tech Briefs. These employees include Norman Belasco, Dr. Sam Pool, Paul W. Shores, Kent Castle and James C. Stamps.



**EMPLOYEE-MANAGEMENT AGREEMENT SIGNED** — JSC Director Christopher C. Kraft, Jr., center, signs an agreement between JSC and Local 2284 of the American Federation of Government Employees in a June 3 ceremony. Members of the JSC and Local negotiating teams are, seated, left to right: Carl Maxey, JSC Labor Relations Officer Bailey Chaney, Kraft, AFGE Local 2284 President Ledrieu Linson, AFGE National Area Representative Edward Mallet, Jr.; standing: Richard Kuhn, JSC Personnel Officer Jack Lister, James Chandler of the Federal Mediation and Conciliation Service, Kenneth Gilbreath, Curtis Vetter, Eston Meade, Leslie Ghetzler, Aneta Davis, Ann McClung, Robert Bryant and JSC Deputy Director Sigurd Sjoberg. Not in photo: Don Blume and Hilda Edwards.

## JSC, AFGE Sign Contract

Representatives of JSC and Local 2284 of the American Federation of Government Employees (AFGE) signed a contract June 3 covering personnel practices and working conditions of most federal employees at the Center.

JSC Labor Relations Officer Bailey R. Chaney and AFGE National Area Representative Edward Mallet, Jr., led the management and union negotiating teams.

Local 2284 President Ledrieu Linson said, "I am extremely

pleased that the Local and the Center have negotiated an agreement, and we feel it will be of significant benefit to the employees we represent." JSC Director Christopher C. Kraft, Jr., also expressed satisfaction with results of the negotiations and said that provisions of the agreement would be applied throughout the Center.

The agreement will become effective following review at NASA Headquarters to assure conformity with regulations.

## Facts As Astonishing As Fiction!

"Who's Out There?" is the title of the next First Tuesday at the Movies Film Series shown for the benefit of JSC employees.

Orson Welles is the host and star of the half-hour film which will begin at 12:15 p.m. July 1 in the Building 2 Auditorium.

From the monstrous Mars life forms of his famous 1938 radio

broadcast, "The War of the Worlds," Welles takes viewers through science fiction to science fact. He points out new views on extraterrestrial life and focuses on interstellar discoveries about the nature of life.

The film is a fascinating contemporary scientific portrayal wherein the facts are sometimes just as astonishing as the fiction!



**DISTINGUISHED ACHIEVEMENT** — Howard McClennan (2nd right), President of the International Association of Fire Fighter's, presents the Association's Award for Distinguished Achievement to Pat B. McLaughlan of JSC. Also shown are William L. Smith, Chief of the Technical Applications Division of the NASA Office of Technology Utilization and McLaughlan's wife Diane. McLaughlan is a former project manager for the NASA-developed Fire Fighter's Breathing System.

# CCCT Announces Future Productions

The Clear Creek Country Theater (CCCT) has announced plans for its next summer musical and its 1975-76 season. The summer production, "Bells are Ringing" will run Fridays and Saturdays from July 26 until August 16. "Bells" is directed by Natt Harvey Vaughn, best known locally for her work with the Chamber Singers of the Bay Area Chorus.

The remainder of the season promises a variety of entertainment beginning with "Tom Jones," di-

rected by Claire Harmon. "Tom Jones" was the first show presented by CCCT at their present League City location ten years ago and was chosen to celebrate this group's anniversary.

The season continues with "That Championship Season," winner of both the Pulitzer Prize and the Drama Critic's Award. Director will be Jake Wood. Also featured this season will be "The Mikado" directed by Andrew Simpson.

The final offering will be "George Washington Slept Here," a Kaufman and Hart comedy with Darwin Miller directing.

Season tickets are \$8 for adults and \$5 for students and senior citizens. They must be purchased Friday or Saturday evenings or by calling 332-2931.

Currently playing at CCCT is the musical comedy "Dames at Sea" which will end June 21. Curtain is at 8:15 p.m. and reservations may be made by calling 332-2931.



TRUE LOVE — Singing of their "passion in Pensacola" are Reggie Schwander and Marijo Pound, featured players in "Dames At Sea" the nostalgia-filled musical comedy playing at Clear Creek Country Theater Fridays and Saturdays until June 21.

## "Employees' Inadequacies Shouldn't Be Secret"

Just as it is the responsibility of employees to point out on-the-job problems to supervisors, so is it the duty of supervisors to enlighten employees about their shortcomings in work situations, says EEO Counselor Eleanor Der Bing.

"In my year and a half of counseling, I have found that many problems arise because supervisors are reluctant to inform employees when they are not performing up to standards. Unfortunately some employees are led to believe their

work is satisfactory and feel they have valid complaints when passed over for assignments, promotions and the like," Eleanor stated.

She added that if supervisors would deal with inadequacies on the part of employees directly but diplomatically, perhaps many problems would be avoided and "EEO Counselors would have less work on their hands."

Eleanor admits she has been "quite busy" since becoming an EEO counselor. However she feels

the work warrants the time devoted to it and does not regret taking on the extra responsibility it entails.

She commented that to function well as a counselor, one has to be an unbiased negotiator. "Sometimes it is difficult to remain neutral; however, that is a necessary requirement for the assignment."

She feels that in order to solve some of the communications problems at the Center more "people to people" contact is needed, especially in the technical areas. "Some-

## Tight Teamwork Pays Off

Teamwork has always been an essential ingredient in any of NASA's missions. For JSC employees who entered the Fifth Annual Houston Highland Games in May, it was equally essential to have tight teamwork.

At this year's annual games, two NASA teams won first and second places in the Tug-of-War contest. The first-place team had top Center management running the show with George Abbey as captain of the "Ace Moving Company." Other "pullers" for Ace were flight director Phil Shaffer, Jack Williams from DSAD, lunar geologist Gary Lofgren, Tom Short from Rockwell International, A. J. Roy from FOD and capcom Richard Truly.

The second-place team, the "Great Danes" after captain Hans Fenneberg, consisted of capcom

Bob Crippen, Harry Conran from the Exchange, Roy Aldridge, Jim Griffin, Doug Burns and Tim Kinkaid.

Abbey commented that rope pulling is exhausting work and attributes both first and second place wins to the NASA teams' coach, Jim Casey. Casey was All-Irish Tug-of-War champion in 1931.

Both NASA tug-of-war teams say they started "all this as a lark." But, according to Shaffer, "when we had to practice on week nights and weekends, it became serious business."

The Highland Games were held at the Pin Oaks Stables near Westheimer in Houston. A bagpipe contest, the sheaf toss and the "toss of the caber" also featured entries, but no top winners.



TUG-OF-WAR — Mild-mannered bespectacled capcom Dick Truly is trying to get the draw on the team at the other end of this rope. Tom Short, George Abbey, A. J. Roy, Gary Lofgren, Jack Williams and anchorman Phil Shaffer are shown here tugging — on their way to a first place position in the Houston Highland Games tug-of-war contest.



TOSS IT! — Heavyweight flight director Phil Shaffer (left) is shown here attempting to toss the sheaf, a 25-pound sack, over the pole at the Houston Highland Games this past May. Although Shaffer did not place at this year's contest, he vows that next year will be "a different load of hay." At right, Gilruth Recreation Center Manager Tim Kinkaid is playing the bagpipes with the Houston Highland Pipe Team at the Highland Games. Tim was last year's caber toss champion at the annual event.

## Cosmonauts To Receive Gift

Superior White Spruce Tree Seeds will be presented to the Soviet Cosmonauts by U.S. Astronauts during the ASTP mission scheduled to get underway next month. The seeds will be packaged in a special box made from recycled fiber and stabilized walnut.

The box and the seeds are developments of the Forest Service, U.S. Department of Agriculture (USDA).

According to Glenn A. Kovar, USDA Forest Service Project Coordinator, the seeds are genetically superior and will produce faster growing trees of exceptional height and shape. "Trees from these seeds will not only help assure a faster growing world timber supply, but will fight pollution year round," he added.

Kovar says the trees will dilute chemical pollutants with pure oxygen; remove dust and pollen

from the air; combat noise pollution by filtering sound; act as fine windbreaks; and add to the natural beauty of an area.

### REACT

(Continued from page 1)

encouraging personal involvement in JSC's cost reduction efforts.

Hughes remarked that the project has aided management in producing a higher level of cost awareness and has conveyed to many employees the importance of individual efforts to save money and more effectively utilize resources on hand.

He urges employees to report ideas on cost savings, cost avoidance, improved methods and other efforts which can be considered cost reductions.

"In the time we have left to implement the program," he said, "let's give it all we've got."

## Stall New Head of PAO

Harold S. Stall of Long Beach, California, has been appointed Public Affairs Officer of JSC. Stall, 38, has been serving as Manager of Corporate Public Relations for Calesco Industries, Inc., Costa Mesa, California, a diversified, high technology manufacturer. From 1966 to 1973, he was Manager, Public Relations and Advertising for Hughes Tool Company's Aircraft Division, Culver City, California.

He was Deputy Commander of the Information Bureau of the Los Angeles County Sheriff's Department from 1961 to 1966 and prior to that was employed as a newscaster and news director at several radio stations in the Los Angeles area.

He is a member of the American Federation of Television and Radio Artists, Public Relations Society of America, Greater Los Angeles Press

Club, Aviation/Space Writers Association, and Business/Professional Advertisers Association.

Stall is a native of San Fernando, California, and attended Life Bible College in Los Angeles. He is married and has two children.



Harold S. Stall



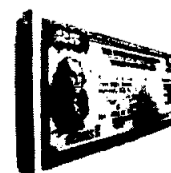
Eleanor Der Bing

times supervisors are so goal-oriented that they tend to forget the rights of employees. That is when problems begin. All people in managerial positions should be given proper supervisory training and should apply this training in dealing with their employees," she said.

Eleanor came to JSC with the Space Task Group and has been a Procurement Specialist since that time. She is active in numerous community affairs including the Chinese Baptist Church, Chinese American Citizen's Alliance and the Chinese Professional Club of which she is vice-president. She is the first woman to hold a key position in this organization and will be the first female to attend the Chinese Community Intercouncil Organization. "Let's hope I won't be the last," she said.

She enjoys bowling and says traveling is her "first love." Recently she and her husband and daughter took a three-week tour of Europe.

"I don't like to be a vegetable. It's stimulating to be active; that's what life is all about," Eleanor commented. "Besides, it keeps you young!" she added.



\$25 gift for \$18.75



UP WITH PEOPLE — Pictured above are the internationally known youth group "Up With People" who presented the 1975 edition of their musical show in the JSC Building 2 Auditorium recently.

## Roundup Swap-Shop

Swap Shop advertising is available to JSC and on-site contractor personnel. Articles or services must be offered as advertised, without regard to race, religion, sex or national origin. Ads should be 20 words or less, including home telephone number. Name and office code must accompany, but need not be included in ad copy. Typed or printed copy must be received (AP3 Attn: Roundup) by Thursday of the week before publication.

### MISCELLANEOUS

6-day Windjammer cruise ticket for two, choice of Bahamas, British Virgin Islands, or West Indies, \$590 value for \$500, Goodman, 488-1458.

Two large bookshelf speakers, ea w/ two 10" and two 4" walnut cabinets, gd cndn, \$53, 588-3966.

400 watt dc to ac inverter, brand new, \$70, 334-2894.

Two chrome wheels, \$10 ea, 14"x7", fits 65-75 Dodge Dart, Demon, Swinger, Plymouth Valiant, Duster, Scamp, and 65-69 Barracuda, 4673 or 488-5192.

Trailer hitch for 64 Pontiac Station wagon, chrome plated, \$10, 481-0780.

Golf clubs, Wilson, Sam Snead, 3 woods, 6 irons, bag and cart, XInt cndn, \$75, Statz, 482-7607.

S&W Model 52, 38-master and model 53, 22-jet, \$275 ea, Thompson/contender barrels, 6 different, \$40 ea, Handley, 4776 or 482-7041.

Craftsman 2-drawer add-on chest, \$30, 10 gal. aquarium set-up \$10, 20 gal aquarium set-up \$25, 482-1179 aft 6 p.m.

10x18 screened porch, all cedar construct, fiberglass roof, you haul it away, bargain, \$125, Vibbart, 488-0582.

Yashica 35MM camera, xInt cndn, F/1.8 lens, bit-in light meter and range finder, \$50, x5961 or 481-2366 aft 5.

### HOUSEHOLD ARTICLES

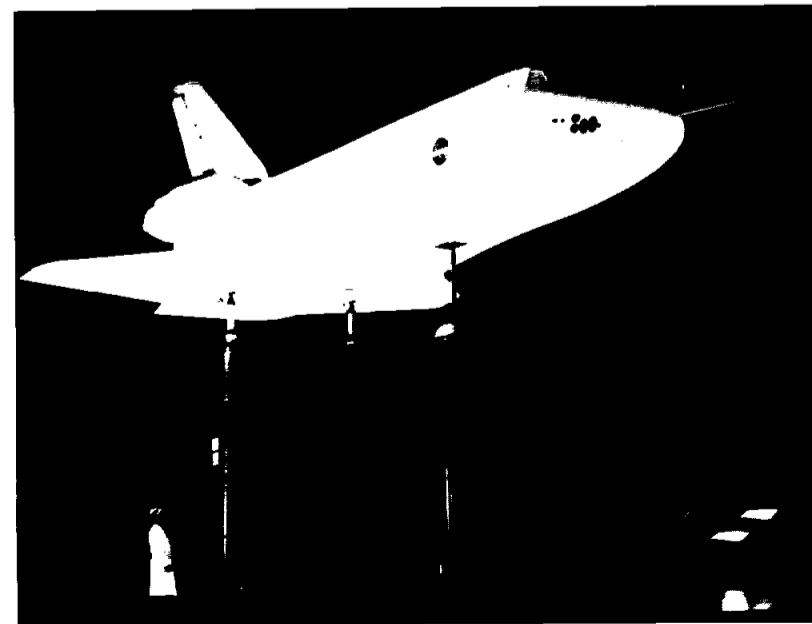
Solid maple Early American round dining table w/four extension leaves and six chairs, also matching 48" hutch, XInt cndn, \$700, 479-8141.

Dining table and 4 chairs, Spanish, 2 years old, \$100, coffee and end table, Mediterranean, \$50 both, Cornett, 333-2775, x4840.

Kenmore portable washer and dryer, apartment sz, approx 2 yrs old, gd cndn, \$225, Guest, x3676/427-8731.

Large Spanish curved sofa and chair, 1/3 price at \$600, fireplace screen curved wrought iron li nw, \$62.50, odd modern chair \$45, 337-3164.

Oval dining table, German made, all wood, expands to seat 12; \$300, Smith, 534-3885.



MODEL — A one-third-scale model of the Space Shuttle orbiter is shown installed in the huge 40 by 80-foot test section of one of the largest wind tunnels in the world, located at NASA's Ames Research Center. The model, more than 13 meters (43.9 feet) long, is undergoing tests to gather low speed data in support of approach and landing tests of the first full-scale Shuttle orbiter at NASA's Flight Research Center in 1977.

21" Zenith color t.v., 69 floor model nds minor work, \$75, 481-2386.

### VEHICLES

73 Grand Torino, 2-d, ht, metallic blu, 351 eng, air, radio, auto, 48000 mi, almost nw tires, \$2550, 943-0746.

Rent Cessna 205 and 206, 6 seats, 1FR equipped, \$30 and \$32/hr wet, 332-1367.

69 Dodge Charger, 318 c.i.o., ps, pb, radio, \$950, Regenburgh, 482-1156 aft 6.

15' travel trailer, 71 self contained, elec, brakes, 3 burner stove w oven, sleeps 6, gas, 12VCD/110 VAC, xInt cndn, Munford, 3254, \$1500.

72 Chevy pick-up, Cheyenne, V8, radio, air, stickshift, 5886.

VW 71 Super Beetle, yellow black vinyl roof and interior, chrome extras, xInt cndn, orig owner \$1295, 333-2910 aft 5.

Ladies bike, 26", single speed w coaster brake, Osgood, 946-3404.

Rent, 16' Golden Falcon travel trailer, self-contained, xInt cndn, slps 6, 488-2387, x2816.

Rent nw Coleman crank-up camper, sink, stove, water tank, ice bx, slps 6, deluxe! 488-2387, x2816.

71 Suzuki TM400 MX going back to school, \$450, Cooper, x6161 or 482-1009.

Boys 27" Schwinn 10-spd bike, li nw w many accessories, \$75, 482-7858.

24" Schwinn single spd, 26" Sears 3-spd, 472-7478.

69 Imperial LeBaron Chrysler, 2-dr HT gd mechanical cndn, 74000 actual miles, 472-6910, x2177, \$800.

75 Plymouth, uses reg gas, 318, auto, air, discs, ps, \$150 ovr cost, Ellis, 686-1923.

### PROPERTY AND RENTALS

Furnished 1 bdrm lux condominium available for 6 mos lease while owner on temporary foreign assignment, \$275/mo, 538-1657.

Trade large 4 bdrm/formal areas/den, study, Sagemont for large home in NW (FM 1960) area, assistance locating trader appreciated, 481-0066.

For rent: 2-br townhouse, Forrest Bend, on end w/o traffic, pool privl., \$297, 482-3095 before 2 p.m., 331-5826 aft 5 p.m.

Wooded lot at Trinity River, Dayton Lake Estates, approx 1/4 acre, access to river and lakes, approx \$400, Graham 944-9030 or Haines 483-5371.

Wooded lot at Lake Houston, Indian shores, approx 1/4 acre, access to clubhouse, golf course and lake, paved road, approx \$4000, Graham, 944-9030, Haines, 483-5371.

### PETS

Cocker spaniels, AKC Pedigree, party color, 9 weeks old, \$100, also 2-yr-old blond male, 337-3164.

Cairn Terrier, AKC reg, male, grey brindle, Carver, 334-1764 aft 5 or 2131.

6-wk-old Dachsund pups, females, \$15, males, \$30, 481-3968 aft 5.

### BOATS

1961 75 hp Scott McCullough, 2 brass props, controls, runs, \$75, 332-1367.

19 ft fiberglass deep V 101 hp IO, trailer, cutty cabin w head, man xtras, gd cndn, \$3460, 1-925-3654.

### WANTED

Utility trailer 8' to 10' flatbed preferred, 485-5448.

Home with lots of love for child-loving, 7 mo-old pup w shots, Sherron Collier, x6278.

FM mono or stereo radio for workshop, will pay \$10, David, 2201 or 481-3656.

Set of golf clubs for use by 10-yr-old boy, 481-0095 aft 5:30.

### MORE SWAP-SHOP

House for lease: Sagemont area, 3 bdrm, 2 bath, 2-car garage, lr, dr, fam-rm, 2 car garage, washer/dryer, other major appliances incl, 1900 sq ft, available late July, \$350/mo, Fuller, 481-3021 or 2931.

72 Plymouth Sebring, xInt cndn, sharp, \$2250, 487-2142 after 6, Maxey. 12" b/w Zenith portable t.v., \$15, boy's hockey ice skates, sz 5, \$10, Daisy BB gun, \$5, 5'x7' wool rug, \$3, 488-4005 aft 5:30.

Lawnmower, self propelled, rotary 22", xInt cndn, \$55, light Saber saw, nw, \$15, chest of drawers, large, \$25, 488-5564.

Rattan bar, thatched roof and base, two lights, footrest, \$400, 474-4041.

Antique clocks ornate shelf, 30 hr, posts, eagle on top, \$100, 2-8 day Wmnstr chime mantel, \$160 and \$95, 474-4041.

18 ft seabreeze boat, 72 bowrider, 105 hp Chrys. OB, depth finder, air horns, top and curtains, xtras, galv tilt trailer, xInt cndn, \$2900, 333-2509.

Wanted: borrow, rent, buy a gd set (left and right) fender mount camper trailer mirror, Brenton, x2634.

Beagle pups, tricolor, 3 male, 6 wks old, shots, x2766 or 334-2319, McCullough.

Free darling kittens, playful, well behaved, 474-2904 or 334-1267.

AKC reg collie pup, female, shots, wormed, 1 left, 334-1267.

2 blu and green mod love seats w accent table \$200, 2 bar stools, \$16/pr, desk w 7 drawers, \$25, children's school desk, \$7, floor lamp, \$7, 2 round dining tables, \$5 ea, 481-0191.

73 Beechcraft Sundowner, 380 hrs engine time, Full IFR panel: dual NAV/COM, ADF, DME, TXP, ELT, glide slope, marker beacon, strobes, \$22,000, will lease back, Schmidt, 472-8908 aft 5.

# EAA Attractions

### TENNIS RESULTS

Winners of the double elimination tennis tournament held recently at the JSC courts, Clear Creek High School courts and Clear Lake High School courts are listed below:

Men's A Singles, first place, Gid Weber, second place, Ed Tribble; Men's B Singles, first, Rudolph Rendon, second, Gary Lofgren; Men's C Singles, first, Doug Downs, second, John Vincze; Men's A Doubles, first, Gid Weber and Ken Westerfeld, second, Hiroshi Nagasawa and Borming Jahn; Men's B Doubles, first Ed Fendell and Hal Souris, second, Jim Bone and Harrison Reed.

Women's A Singles, first place, Marilyn Grayson, second place, Amy Young; Women's B Singles, first, Ann Williams, second, Chris Rendon; Women's C Singles, first, Ann Williams, second, Sandra Schmidt.

Trophies were awarded to all winners.

### TICKET CORNER

Tickets available in Building 11 Exchange Store.

SPORTS — Houston Astros Baseball, \$3.15 reserve, \$4 box; SPECIAL PLACES OF INTEREST — Sea Arama, year round, adults \$3, children \$2, Disney Magic Kingdom Cards, free, Lion Country Safari Cards, free, Six Flags Discount Cards, free; DINNER

THEATRE — Dean Goss Dinner Theatre, \$16 couple ("Kiss or Make Up").

### BRIDGE

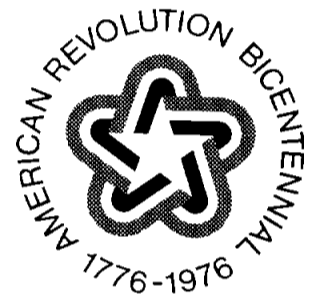
Effective immediately the JSC Bridge Club meetings are discontinued until August 1, 1975. The meetings have been cancelled because of lack of attendance. Call Dave O'Brien, Club President for further details (X3164).

### SKATING

A roller skating party is scheduled at the Fun Time Roller Rink, 1500 N. Texas Avenue, Webster, Texas on July 21 from 7 p.m. to 9 p.m.

Price is \$1.50 per person which includes skate rental. There is a dress code stating that women and girls cannot wear halter tops and men and boys cannot wear tank tops or muscles. Appearance must be neat and clean.

Tickets may be purchased in the Building 11 Cafeteria Souvenir Shop. Cutoff date for purchasing tickets is July 17 at 1:00 p.m.



## Model Helicopter Contest Pending

A model helicopter contest will be co-hosted by the EAA/JSC Radio Control Club June 28, 9:00 a.m.-4:30 p.m. on the parking lot directly across from the Center's fire station.

Model helicopters are the newest addition to the rapidly growing sport of radio controlled models. Most of the models that will be flying in the contest are detailed miniatures of the type of craft that JSC operates in its Earth Resources Sensor Program. Others are military

configurations or homemade designs and reflect the style and ingenuity of the individual builder.

Each flyer will be required to demonstrate proficiency in hovering, landing, cargo pickup and low altitude maneuvers. A high point prize will be given for novice, intermediate and expert classes.

If you are intrigued by the novel and unusual in radio controlled models, plan to see this activity. Contact Saverio Guadiano, X4061 for further information.



MODEL HELICOPTER — JSC Radio Control member Owen Morris inspects one of the model helicopters which will be a part of a contest on June 28 at JSC.

## ROUNDUP

NASA LYNDON B. JOHNSON SPACE CENTER HOUSTON, TEXAS



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

Editor: Janet Wrather

Photographer: A. "Pat" Patnesky



STAFFORD AND FAMILY — Astronaut Thomas P. Stafford, commander of the American prime crew for ASTP, is pictured with his wife, Faye, and their two daughters, Dionne (left) and Karin in their home in El Lago.

## ASTP Countdown...

Briefings on the ASTP mission were held earlier this month at JSC. Topics included mission profile, recovery, hardware, experiments and Public Affairs Office operations during the mission.

— The astronauts were at the Cape last week for crew compartment fit and function check and pad egress training.

— This week the crew has been undergoing various kinds of briefings and continuing their Russian language studies.

— The crew also has conducted Earth Observation fly-overs in the Western U.S.

— The prime crew had their F-30 day physical examination.

— Several unilateral simulations

have been conducted.

— Isolation for the crew will begin June 24 and a series of simulations and briefings will begin on this date.

— The last joint simulation with the Soviet Cosmonauts begins June 29 and will last through July 1. This simulation will cover joint activities and the two control centers will be linked.

— The countdown demonstration test with the prime crew will take place July 3.

## First Space Shuttle Engine Ignition Test Is Successful

The first in a series of ignition tests of a Space Shuttle Main Engine has been conducted successfully.

Quick-look evaluation of data from the brief test indicated that all test parameters were satisfactory and the test objective achieved.

Tests are being conducted for the NASA-Marshall Space Flight Center by personnel of the Rocketdyne Division of Rockwell International Corp., developer of the engine.

The tests are being run at the National Space Technology Laboratories in Hancock County, Miss., using facilities designed originally for Saturn testing and converted recently for the Shuttle program.

The recent test is the first of a series of eight ignition tests which will lead up to the mainstage firing of the main engine later this summer. All ignition tests will be of short duration, none reaching full engine thrust.

The test engine passed successfully a countdown demonstration test and two "blowdown" tests earlier. In a blowdown test the liquid hydrogen propellant is used

to start spinup of the turbopumps.

Completion of the ignition test series is slated for late July.

### Buy U.S. Savings Bonds.

### Stamp Collectors

(Continued from page 1)

Orlando, FL 32802. Covers submitted must bear firstclass or airmail postage stamps.

— Pictorial cancellations marking the link-up of Apollo-Soyuz spacecraft will be applied to mail received at Houston and at KSC by July 17. Orders for the cancellations should be addressed to "Link-up Cancel," in care of the Postmaster, Houston, TX 77013, or for the KSC cancel, Postmaster, Orlando, FL 32802. Covers submitted must bear first class or airmail postage stamps.

Mail orders for mint U.S. Apollo-Soyuz commemoratives should be addressed to "Apollo-Soyuz Stamps," Philatelic Sales Division, Washington, D.C. 20265. Remittance must include a 50-cent handling charge and must be a money order or check.

**Why should you join the Payroll Savings Plan now? Maybe you'll find out later.**

### ATTENTION

The first Project Increased Qualifications participants have been selected. Included in the program are Edward L. Crawford, Helen L. Davis, Thomas E. Davis, Mary K. Kerber, Margaret C. Lucas, Geraldine G. Martisek, Charles A. Moore, Dianne L. Robinson, Martha C. Speller, Ann S. Sullivan.

Project Coordinator John Lovejoy indicated that if the program is successful, it will be repeated soon.

### Throughout NASA

(Continued from page 1)

agency's development of an ion thruster engine. The ion electric thrust device would substitute electric propulsion for the chemical propulsion devices presently used for some spacecraft chores.

#### AMOS

A new type of solar cell promising high efficiency has been developed by a research team at NASA's Jet Propulsion Laboratory. Given the acronym AMOS, for Antireflection Coated Metal-Oxide-Semiconductor, the cell may have potential use on earth as well as in space according to Dr. Richard Stirn, team leader. Samples have demonstrated an efficiency of about 15 percent in terrestrial Sun light; tests have shown that AMOS has superior resistance to radiation, and that it may help in terrestrial solar energy applications.



BRAND AND FAMILY — Astronaut Vance D. Brand poses for a family portrait with his wife, Joan, and their four children, Susan (seated on left), Stephanie (seated on right), Patrick (standing on right), and Kevin (standing on left), in their home in Nassau Bay. Brand is the command module pilot of the American Prime crew for ASTP.



SLAYTON AND FAMILY — Astronaut Donald K. Slayton is shown with his wife Marjorie and their son, Kent, 17, at their home in Friendswood. Slayton will be the Docking Module Pilot of the American crew of the ASTP mission.

## Length of Service Awards Presented

Center Director Christopher C. Kraft recently presented Length of Service Awards to a number of JSC employees.

William C. Scott and Charles J. Coler received 35-Year Awards. Scott is employed in Institutional Procurement and Coler is in the Photographic Technology Division.

Thirty Year Awards were presented to Warren J. North, John Herrmann (retired), Marion Franklin, Jr. (retired), Robert T. Gundersen, Joseph J. Kolnick, Annie H. Fitzgerald, Joseph P. Siegfried, Paige Burbank, Edison Fields, Harmon Jones, Verl Wilmarth and Robert Bailey.

Receiving 25-Year Awards were Lucille J. Blanco, Joseph H. Tilghman, Jr., William E. Miller, Robert H. Moore, Charles T. Ritchie, Donald D. Blume, Cloyd E. Brooks, Harry L. Hawkins, Kenneth F. Hecht, Edgar R. Harlowe, Jr., and Jerome R. Johnson.

### 35-Year Awardees



William C. Scott



Charles J. Coler