

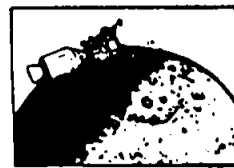
## Combined Federal Campaign

The One Gift That Helps Many

# ROUNDUP

NASA MANNED SPACECRAFT CENTER

HOUSTON, TEXAS



VOL. 10 NO. 25

October 22, 1971

## Exciting Discovery by Rice U. Scientists

Rice University scientists have announced what they believe to be the most exciting discovery yet to come from their Apollo lunar surface package experiment—the observation of what appears to be a lunar “geyser.” Drs. John W. Freeman and H. K. Hills explained that the Rice-designed Apollo Lunar Surface Experiment Package (ALSEP) Suprathermal Ion Detector Experiment (SIDE) returning continuous data from the lunar surface has reported a sporadic burst of water vapor ions. The burst, recorded on March 7th of this year by the Apollo 14 instrument at Fra Mauro lasted nearly 12 hours and provided the largest flux of ions yet detected by the experiment’s mass spectrometer.

Dr. Freeman explained that a sudden venting of gas from a fissure in the lunar surface seems to be the most logical explanation for the phenomena. The question of water under the lunar surface has long been a matter of intense interest to lunar scientists. Recently evidence has been growing for the existence of so-called lunar transient phenomena. An international

network of observers has compiled an extensive list of transient changes seen in the color and clarity of surface features on the moon. These changes have been found to occur predominantly in certain areas on the moon and at certain times in the lunar orbit. Also, photos taken by the lunar orbital satellites showed occasional hazy regions that looked like rising gas clouds. Dr. Freeman further explained that any water liberated impulsively from cracks in the lunar surface would vaporize instantly due to the high vacuum of space and produce effects similar to those observed by the SIDE experiment and these other observations.

The scientists’ picture of the surface of the moon as a completely quiet place appears to be changing to one where the serenity is occasionally punctuated by the geyser-like outbursts and moonquakes.

The Rice scientists also noted that the ion detector indicates the gasses left behind by the Apollo Lunar Module rocket engines dissipate within a time span of a few months.



MSC's BRIGHT YOUNG MEN—Pictured are some of the 24 employees that have been selected to attend the MSC Management Development Program. The employees selected for this program will be given an opportunity to gain general knowledge or the latest administrative and management techniques relevant to the Centers working environment. At the left of the blackboard is Dr. Ray Miles, guest seminar leader, going over the current areas of study that cover organizational behavior, industrial relations, and management practices. Dr. Miles is a Professor of Business Administration and a Research Economist in the Institute of Industrial Relations at the University of California at Berkeley. Pictured at the right of the blackboard is Dr. Winford E. Holland, College of Business Administration, University of Houston, who has been designated as the U of H's Director of Research and Seminars at MSC. Additional instruction for this program will be provided by Dr. Holland and other carefully selected government, academic, and business leaders.

## Development Program for MSC

Under the leadership of Mr. Philip H. Whitbeck, Director of Administration and Program Support, a program has been initiated to develop MSC's most important asset, people. It is called the MSC Management Development Program, and its express purpose is to bring together the best management concepts and practices from MSC and related aerospace R&D experience for training selected MSC employees. The program was developed in collaboration with the University of Houston, College of Business Administration.

The employees selected for this program will be given an opportunity to gain a general knowledge of administrative and management techniques relevant to the MSC working environment. It will also provide new information and in-

sights through discussions with selected speakers and leaders from the academic community. Selected employees will have a chance not only to improve their ability to employ the tools they have been using for years, but also to develop new skills and knowledge which will help them deal more effectively with future problems.

The employees selected for this program have been chosen on the basis of their past and potential contributions to MSC and their ability to benefit from the program. The class of 24 were carefully selected, approved, and endorsed through all levels of MSC management. The 24 selected employees are as follows:

Kenneth L. Schnell, Howard M. Sands, Harvey L. Hartman, Robert C. Hood, Lee R. Nichols, David C. Schultz, Stephen L. Kim-

zey, Larry E. Bell, William E. Zrubek, James A. Lawrence, Robert E. Johnson, Jack C. Heberlig, Bass Redd, M. P. Frank, Charles R. Mains, James J. Taylor, Charles R. Parker, Paul A. Svejkovsky, Percy S. Miglicco, Henry L. Williams, Thomas R. Kloves, Michael B. Duke, James H. Sasser, and Daniel A. Nebrig.

Participation in this program will require a continuing commitment on the part of the employees selected. It is hoped this program will help develop and identify the future top management leaders for MSC.

### SAMPE Features Faget at Meeting

The Society of Aerospace Material and Process Engineers (SAMPE), South Texas Chapter, will feature Dr. Maxime A. Faget as its guest speaker at its meeting on Tuesday, November 2, at the Sheraton Kings Inn. The meeting will include a social hour and dinner.

The topic to be discussed by Dr. Faget is, “Design considerations for a low cost Space Shuttle.” He is presently involved in the design of a reusable Space Shuttle. This fact, coupled with his concept and development of the one-man spacecraft used in Project Mercury, should provide a most interesting and informative evening for those that attend this meeting.

Guests and members of SAMPE, as well as all others interested in aerospace and its future are invited to attend. Reservations can be made by calling Lubert Leger, 483-5539.

## 1972 Combined Federal Campaign

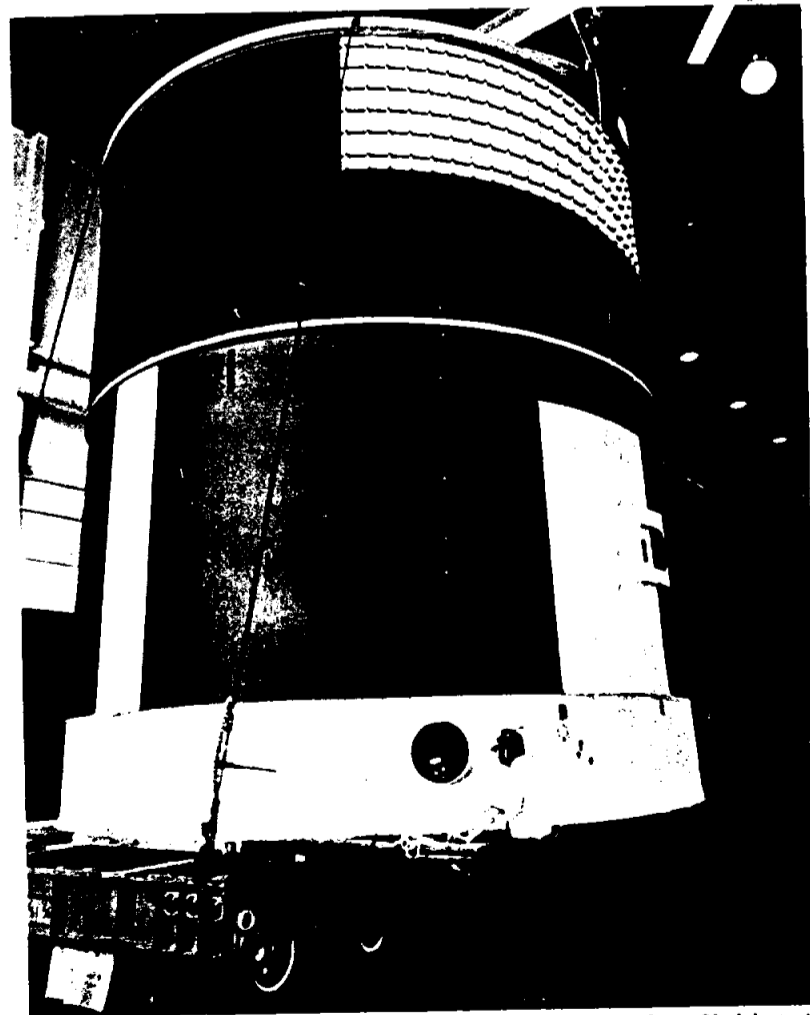
This year is the first time all of the Federal Agencies in the six county Gulf Coast area have joined together in a once-a-year Combined Federal Campaign. Personal Health Agencies, and the United Fund, the International Service Agencies—thus eliminating the old system of several fund drives a year. In addition, the new Combined Federal Campaign will give us the privilege of using the Government-approved payroll deduction plan for spreading a donation over the year in small, convenient installments.

Each year MSC personnel have achieved 100 percent or more of our assigned goals. It is the sincere hope of Dr. Gliruth that

MSC employees will once more contribute to this deserving combined campaign as liberally as possible. We will need your full cooperation to meet the goal of \$115,000 for 1972.

The union heads of AFGE, Local 2284 have also expressed their support of the Campaign. They feel the employees will render full voluntary support since there is now only one annual campaign and there will be no reason to dollar them to death with numerous drives.

At press time, the drive had raised \$74,000 with 65% of the employees participating. Remember this time it is only one gift and it will help so many.



First Orbital Workshop is delivered to MSC—A total of four Skylab trainers will be used at MSC for training prospective Skylab crewmen. While Skylab crews have not yet been named, the training program is expected to begin later this year.

**The Combined Federal Campaign**  
**Open Your Heart and Hand**

## Center Employs the Handicapped

by Pete Smetek

MSC has developed a continuing program to hire the handicapped. This Center hired a total of ten handicapped employees as temporaries during the past summer and the results were most gratifying. These employees demonstrated to everyone that, while they may have lost one capability, their overall ability got the job done and done well.

The MSC Coordinator, H. Mervin Hughes put it this way. "We hope to gain not garlands for helping out, but an insight into their difficulty. To get to know them is to understand them, to understand them is to communicate, and that is where rehabilitation on the job begins."

As the nation's largest single employer, the Federal Government feels it should be the leader in the field of hiring the handicapped. The Civil Service Commission has granted special hiring authority (non-competitive exams) for hiring the severely handicapped, mentally retarded, mentally restored, and the rehabilitated public offender. Over the past two summers, MSC has employed persons with cerebral palsy, muscular dystrophy, deafness, blindness, birth defects, paraplegia, epilepsy, amputees, and mental problems.

MSC does not restrict its hiring of the handicapped to those slightly impaired, but has taken upon itself to accept even the most challenging of cases. Hughes said MSC is a leader among NASA centers in hiring handi-



Blind students help in space efforts. Pictured are three blind students, with their counselors, who worked at MSC last summer. At first they were frightened, but once they became involved in their assigned work, they were able to make positive contributions to the space program. From the left, they are: Robert Shelton; Michael Cross; A. B. Goodrum, Texas Commission for the Blind Charles Sanders; and H. M. Hughes, MSC Coordinator. Photo by David Nance is reprinted by special permission from the Houston Chronicle.

capped persons. The applicants are referred to MSC by the Texas Vocational Rehabilitation Commission, the Texas Commission for the Blind, and private sources most aware of a handicapped person's problem. The selection for hire is made by the Coordinator, only after appropriate certification.

All the handicapped people in MSC's Summer Program are temporary employees. If these people prove themselves according to the assigned work standards, they may be considered for permanent employment. However, because of the present man-

power and budget limitations, this will be only a rare possibility.

One of the outstanding participants in this last summer's program, is Shirley C. Price, pictured below. Shirley was born without her lower arms, but that doesn't stop her. She serves as an Administrative Assistant in the Physics Branch of the Planetary Earth Science Division. She is a most remarkable person that has done an outstanding job of overcoming her physical limitations. So remarkable is her adaptation, that Texas' Governor, Preston Smith will award her with a special citation on October 28, 1971 for her achievements.

Even though all the handicapped are not hired on a permanent basis, they leave MSC with enriched lives, experience, and added credentials for a permanent job elsewhere. As an example, pictured in this article take the comments of the three blind students who worked here this summer. The three said they were given every consideration at the Center and their fellow employees neither pampered nor ignored them because of their blindness.

Perhaps herein lies the key to hiring the handicapped. They are people, that want to be treated like other employees, without having to accept charity. They are capable of earning their own way if they are given a reasonable chance. MSC is giving some of them that chance.

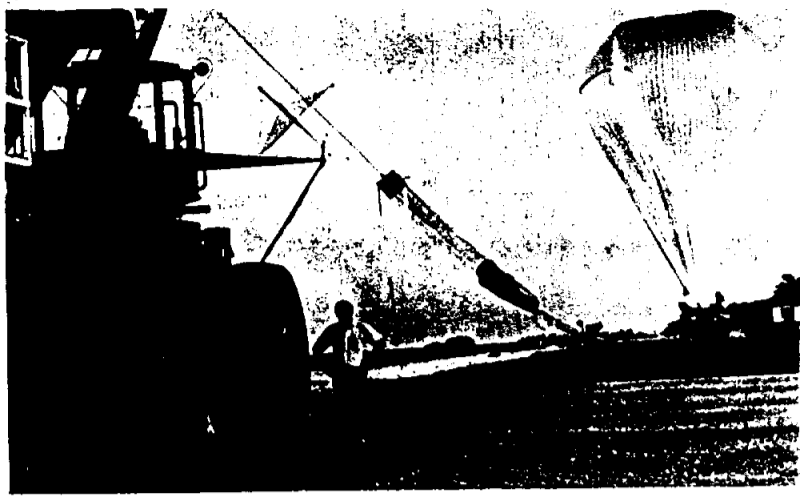
**OOPS**—Sorry about that! Now reprinted from an older Arabian Proverb. The last Arab spoke with a forked tongue.

He who knows not and knows not that he knows not is a fool—shun him.

He who knows not and knows that he knows not is simple—teach him.

He who knows and knows not that he knows is asleep—awaken him.

He who knows and knows that he knows is wise—follow him.



BUSS being prepared for launch. The second flight of the Balloon-borne Ultraviolet Stellar Spectrometer (BUSS) is shown as it is being prepared for launch on October 7, 1971. Balloon at this stage appears to be only partially inflated, but when it reaches its operating altitude it will have expanded many times its present size.

### Buss Makes Second Flight

The second flight of the Balloon-borne Ultraviolet Stellar Spectrometer (BUSS), following the successful test flight in June 1971, was carried out on the night of 7-8 October 1971. The payload was recovered in a good condition after a 10-hour flight. The flight reasserted the capabilities of the BUSS payload, which provides the highest spectral resolution of any current flight instrument designed for observation of stellar spectra, whether balloon-, rocket- or satellite-borne.

The study of the collection of the emissions is expected to enhance our understanding of stellar chromospheres. The chromosphere is a region of a star's atmosphere which thus far has been directly observable only for the sun. This investigation is also related to the

problem of stellar winds and stellar structure.

BUSS is being developed as a prototype of the Small Astronomy Telescope which is under consideration for the Space Shuttle sortie missions.

Results of the June and October flights will be presented at the American Astronomical Society meeting in December 1971 and also, upon invitation, at the IAU (International Astronomical Union) Colloquium on Stellar Chromospheres in February 1972.

The principal investigator for the BUSS study is Dr. Y. Kondo of the Planetary & Earth Sciences Division. Working with him on this project is Dr. R. T. Giuli, also of MSC, and Dr. J. L. Modisette of Houston Baptist College.

### QC Announces Special Meeting

The South Texas Section of the American Society for Quality Control announces a special meeting and tour of Busch Gardens on October 28, at 6:30 pm. There will be a short presentation on the requirements of quality control in packaging beer products.

It is ladies and guest night, so let's have a big crowd. The special event will include a tour through the brewery, the gardens, a boat ride, and a good old Texas barbecue.

### Toastmasters Vie In Speech Meet

M. L. "Newt" Feldman and Joe Robinson represented the MSC Toastmasters Club at an area speech contest on October 2, 1971. The contest featured humorous speeches and time limited talks. While our representatives didn't win, they did have a great time and are ready to try again.

The MSC Toastmasters Club meets at 6:15 pm every Tuesday at the Singing Wheel Restaurant in Webster. Membership in Toastmasters provides an excellent opportunity for people to improve their leadership and communication skills.

### Have You Given?

The MSC Blood Deposit Program, an EAA activity, has been in operation since September 1966. If you are a MSC or an on-site contractor employee and have not become a member, now is the time to join.

An employee's first donation makes him a member of the program for a year. He also receives a certificate of appreciation, and this the first step toward earning a Blood Bank Pin. When employees donate blood, they also assure eligibility to their families, including sole support dependants living in their home.

This October the MSC Blood Deposit Program donated 100 excess credits to the Kidney Foundation of Houston and another 100 excess credits to the Shriners Hospital for Crippled Children at Galveston, Texas. So your participation results in doing a service to the community as well as protecting your family with blood services when required.

If you haven't given or want to further your blood donations, then make an appointment. Simply call either Lester Wynn, x6124 or Barbara Freeman x3583 for an appointment. The Bloodmobile will be at Bldg. 8 on November 3 & 4 from 8 am to 3 pm.



Winner in Life—Shirley C. Price says I can do, with a smile of confidence. She can sing, dance, paint and type (with her toes), and anything you can do, she can do better. With an attitude like that, she is bound to be a winner.

### Security Stresses Caution and Courtesy

In order to improve pedestrian safety, increased emphasis is being placed on enforcement of pedestrian crosswalks. Drivers who fail to yield the right-of-way to a pedestrian in the driver's lane, or in the adjacent lane and walking towards the driver's lane, will be cited.

The pedestrian must also as-

sume responsibility for his own safety. He should never leave the curb and walk into the path of a vehicle which is so close that stopping is impractical.

Remember, when walking or driving onsite, approach the crosswalks with caution and courtesy.

# Roundup Swap-Shop

(Deadline for Swap-Shop classified ads is Thursday of the week preceding Roundup publication date. Ads are limited to civil service employees and assigned military personnel. Maximum length is 20 words, including name, office code and home telephone number. Send ads, typed or legibly written, to Roundup Editor, AP3)

**MISCELLANEOUS**

Stereo, Ampex console with tape deck, will sacrifice. Irwin, 333-2640.  
Stereo, Scott 299T solid state amplifier, \$75. Dynaco FM 3 tuner, \$65, both xln cndn. Hated new \$325. Ramko, 482-7131 after 5 pm.  
35 mm Olympus Pen FT SLR, 1/2 frame, 40mm f-1.4 K 150mm f-4.0 lens, flash, filters, gadget bag, tripod, \$200. Liebergot, 534-3100.  
Movie Camera, Bolex 155S super 8, built-in lite meter & zoom; Projector, Bolex 185L, best offer. Cunningham, 468-8934.  
Go-Kart, 3 HP engine, needs some work, \$55, xln tires and suspension. Cunningham, 468-8934.  
Go-Kart, David Bradley w/5 HP, 2 cycle West Bend engine, \$100. Stamps, 471-0770.  
Shotgun, Remington auto, 20 ga, model 48, poly-choice, \$75. Weltz, 333-3071.  
Clock, Grandfather 74", solid walnut, hand ed case, weight driven Westminster ja and moon dial, 479-6558.  
Rug, gold acritan pile, 12' X 21', xln cndn, \$75. Andrews, 488-0507.  
Typewriter, IBM Selectric, 15", 3 yrs old, Smith, 481-3434.  
Coffee table, Spanish, all wood, \$15. Gilnes, 861-5278.  
Tent camper, Nimrod, good size, xtr wheel, \$35. Minar, 877-3028.  
Sofa, beige; table and lamp, 50. Gaffney, 534-4186.  
Refrig./Freezer, 17 1/2' Maytag, xln cndn, \$85. Thompson, 932-3653.  
Trailer Hitch chrome bolt, fits 68 Chevy, \$8. Clark, 643-7325, 465-6856.  
Cigarette lighters, new, 1/2 price at 50 ea. Fischer, 472-6910.  
Membership, Sun Meadows GC, reg \$300, \$150 plus transfer fee. Krause, 932-3420.  
Deer hunting lease, 280 ac Leon Co, handle 5 or 6 hunters, \$100 p/gun. Svojkovsky, 488-3271.  
Dishwasher, GE portable, avocado, xln cndn, \$75. McCoy, 944-5574.  
Piano, Baldwin upright, yr old, walnut, cost \$1100 now \$700 or best offer. McCoy, 944-5574.  
Golf clubs, Ram, aluminum shaft, 1-4 woods, 2-9 irons, wedge, bag, Gordon, 483-5111.  
Camera, 35 mm Fujica, range finder, 2.8 lens. Elder, 946-9192.  
Photo equipment, Pro type cameras, lens, enlargers, & printers. Elder, 946-9192.  
Encyclopedia, International Everyman's, 20 vol new in box, \$23 cash. Lapko, 946-4311.  
Furniture, Early American rocker, coffee table, lamp & recliner. Also modern bedroom suite, metal cabinet, sofa bed. Underhill after 4 pm, 488-2781.  
Motorcycle tire, new, 400x18, & 12 V battery. Underhill after 4 pm, 488-2781.  
Plant, ornamental gold naugahyde, \$15 & Focal Mixer, two-beam, portable. Montague, 644-1141.

**ACTIVITIES**

Flying lessons, learn to fly, solo course, Cessna 150, \$150. Grow, 944-9152.  
Hlon Mart, Nov. 6, Sat 10 am to 5 pm, Webster Elm school yard, PTA sponsored. Linbeck, 482-1558.  
Tent Sale, Oct 22-24, 982 Hichvale, hand painted items, arrangements, craft articles for Christmas. Jones, 488-3976.

**BOATS**

Speed Boat, 16', 120 HP outboard, trailer & all 1971 gear, pro ski bar, mint cndn, \$3795. Bland, 333-4580.  
Tri-Hull, fishing and skiing boat, 17', 120 HP outboard, trailer and all gear, \$2495. Bland, 333-4580.  
Boat and trailer, fully equipped, 1963, 20' Cruisers Inc. 140 HP I/O Merc, galvanized trailer w/power winch, \$2295. Leo, 534-6772.

**WANTED**

Tape recorder, Sony stereo or equivalent. Lang, 333-3907.  
Deer rifle, Cheatham, 877-1201.  
Ride, Scarsdale Villas apts to MSC, 8 am/4:30 pm. Holtman, 483-5344.  
Anyone who attended the Nikon School, Holiday Inn, 610 Loop, call Jill, 522-6167.

**VEHICLES**

69 Olds Cutlass, xln cndn, \$2000, book price \$2325. Glazner, 488-3139.  
68 Olds Delta Custom, tudor hardtop, full power, AM/FM, 40,600 miles, yellow, black vinyl top. Graham, 333-3778.  
67 Mustang, immaculate, loaded, one own-good, xln transport, original owner, \$500 er, low mileage. Zuhler, 941-4431.  
65 K-Ghia VW, red convertible, clean, runs firm. Verrengia, 681-1872.  
65 Mustang, 6 cyl., auto, air, new tires, good cndn, very clean, \$675. Ferguson, 482-3241.  
66 Buick LaSabre, 4 dr sedan, loaded, xln cndn, \$800. Bond, 877-4103.  
59 Edsel, 4 dr Corsair hardtop, original cndn, full power, \$2500. Bailey, 944-3871.  
64 VW Bus, radio, air, boat hitch, A-1 cndn, \$625. Minar, 877-3028.  
62 VW, newly rebuilt motor, new battery, looks good. Brock, 932-4006.  
65 Lemans hardtop, air, power, auto, one owner, xln cndn, \$950. Palazzola, 488-0125.  
Trailer, Spartan aluminum, 2 bedroom furnished, \$1800. Stone, x4311 (No home phone).  
Plane, 47 Aeronca Chief, ann-June 72, 230 hrs SMOH, cecomite wings, new interior and paint 70, \$1850. Netzband, 946-1750.  
66 Mustang V8, air, xln cndn, Michelin tires, 61 Corvair free to buyer. Brenton, 488-4372.  
65 Mercury, Comet Caliente, 4 dr, air, auto, power, V8, \$595. Waltz, 333-2286.  
67 Olds, Delta 88 Custom, 2 dr hardtop, full power, air, xln cndn, \$1195. High, 333-3254.  
70 Maverick, radio, heater, air, power, white side walls, \$1750 or trade for VW. McPhillips, 877-1718 or 534-2844.

68 Dodge wagon, 6 pass, air, power, now polyglas H 70, hitch, big rack, orig ml, xln cndn. Lewis, 643-2166.  
65 Chrysler wagon, 9 pass, air, power, auto, new steel radials, \$650. Silveira, 333-3767.

70 Chevrolet, Impala Custom Coupe, air, power, vinyl top, xln cndn, 26000 mi, \$2800. Bostick, 333-2289.  
70 Suzuki 125, hi-rise Z bars, sissy bar, xln cndn, \$325. Mark, 498-5037.  
Suzuki 50cc mini-bike, 6 mon old, xln cndn, \$220. Gast, 877-2352.

**PETS**

Poodle, 8 wk male, black with white markings, AKC reg, \$65. Fischer, 472-6910.  
Basenjis, AKC reg, \$85. Roberts, 482-2271.

**PROPERTY AND RENTALS**

Lot, lake front, Knights Forrest, wooded, 102X125, pier, pool & bath house, 40 mi Baytown, \$1895. Young, 422-2793.  
Cabin for lease, day or week, Sam Houston National Forest, ideal for camping or hunting. Leonard, 944-4997.  
Lease wanted, 3/4 Br house, immediate area of MSC. Capps, 483-4971.



**CONGRATULATIONS**—Following presentation of NASA training certificates to graduates of an 18-week course in laboratory animal care, Richard S. Johnston, Deputy Director of Medical Research and Operations, extends his personal congratulations. From left to right are Johnston, Mary Cornish, Ted Barber, Joan Bailey, Terrence Boone, Jr.; Carlene Johnson, Dr. Edward Smith, Judy Barber, Paula Jorgenson, Thomas Roseway, Charles Neal, Tom Chambers, Ray Dillon, II; Dr. Ramsey Bisharah, E. Landrum Young, Instructor; Rudolph Jackson, James Edwards, and Dr. Richard Simmonds, Instructor. Graduate Cindy Legg is missing from the picture.

## EAA Calendar

• Two NASA Nights for the performance of "Play It Again Sam" on November 3 and 4, 1971 at the Holiday Dinner Theatre. Tickets will go on sale October 25. No bottles, please.

• MSC Christmas Dance scheduled this year for December 11 at the Shamrock-Hilton's Grand Ball Room. Tickets are \$5 per person and includes a Midnight breakfast. Music will be by the Don Cannon Orchestra and Thursday's Children. No bottles, please. Group reservations can be made through Joanne Sanchez, ext. 4303. Tickets will go on sale November 15.

• Shrine Circus Night for NASA employees will be on November 14, 1971 at the Coliseum in Houston. Starting on October 27, some \$5 reserved tickets will be on sale for \$2.50. Tickets will be available from your EAA Rep. and Kay Anderson.

• Children's Christmas Party will be held on December 4, 1971 in the MSC Auditorium. Tickets will go on sale November 20 for \$1.00.

## CHRISTMAS CARDS

Space-related Christmas cards are now available in the MSC Exchange Gift Shop, Bldg. 3.

## BASKETBALL

An organizational meeting for mens' basketball will be held in Room 720, Bldg 2, on Thursday, October 28 at 5 pm. All interested personnel are urged to be there.

Organization will include an A and B league, on the same basis as last year. Games will be played at Ellington AFB gym.

## TOYS NEEDED

The Harris County Community Action Association, Headstart Program, is having a Christmas party for underprivileged children on December 21, 1971, at the Hofheinz Pavilion. Here's your chance to help provide a happy Christmas for a deserving child. The Association is in need of toys that would be suitable for children 3 to 5 years of age. Please help. Contributions should be forwarded to the HCCAA, Headstart Program, 6300 Bowling Green, Houston, Texas. For additional information please call Dexter Joyce at 748-4410, x72. Please—a child needs your help.

## Lab Animals to Get Better Care

Fourteen MSC-contractor technicians, from Brown and Root-Northrop and Technology, Inc., recently completed an 18-week course in laboratory animal care.

The goal of the course was to provide MSC scientists with the highest quality research animals possible while, at the same time, ensuring that the animals will be well and humanely cared for, at all times.

Dr. Richard C. Simmonds, MSC veterinarian in charge of animal care, and E. L. Young of Brown and Root prepared and presented the course. Subjects included animal husbandry, physiology, anatomy, diseases, nutrition, and genetics. The course also covered in detail the ten common species of laboratory animals.

The American Association for Laboratory Animal Science (AALAS) approved the MSC

## Buy Saving Bonds



**USAF SHUTTLE LIAISON CHIEF RECEIVES MEDAL**—Lt. Col. Lamar D. Bowles, Chief of the USAF STS Liaison Office at MSC was recently presented with the Meritorious Service Medal by Space Shuttle Program Manager, Robert F. Thompson. The Meritorious Service Medal was awarded to Lt. Col. Bowles on behalf of the Secretary of the Air Force for distinguished service as Chief of the Earth-to-Orbit Shuttle Branch of the Space Transportation System Planning Division, SAMSO, from August 15, 1969 to August 1, 1971.

program so that the course final examination could be used in lieu of the written exam required for certification of graduates as Laboratory Animal Technicians.

## Cycle Club Plans Benefit Rally

The Space Center Cycles (SCC) will hold a 50 mile, timed, instruction type road rally on Sunday, October 31. The proceeds of the event will be used to buy Savings Bonds for the daughter of the late SCC President, Dennis Corbett.

The rally will be restricted to all street-legal motorcycles capable of at least 55mph. All cyclists that qualify are invited to participate. Registration will be held at 1 pm on rally day at the ARCO Station, corner FM 518 and FM 2351, in Friendswood. The entry fee is \$2.00. Winners will be announced following the rally, at about 5 pm. Trophies will be awarded for four plaaces.

The rally will be held on public roads in the area between Webster and Pearland. For more info, call Underhill, 488-2781.

## October is Records Roundup Time

It's "Records Roundup" time in Houston. During the month of October, MSC will conduct a concentrated records disposition campaign.

Each office is encouraged to survey all files and review the contents to identify records and non-essential papers for destruction or transfer to the MSC Staging Area. Duplicate files, obsolete reference material, and inactive official records serve no useful purpose. Clearing file cabinets makes them available for reuse, saves purchase cost, and saves floor space.

MSC efforts last year, reflect that 7765 cubic feet of records

were destroyed or transferred to the staging area. This cubage translated into filing cabinet requirements amounts to 1035 units, or at \$55 per filing cabinet, a savings of \$56,925.

Individual offices are requested to prepare weekly reports showing the number of cubic feet of files destroyed or transferred during the month of October to the applicable records coordinator, who will consolidate and forward a final report to JM34, Records Management Officer, by November 5, 1971. Now is the time to roundup those records.

# ROUNDUP

NASA MANNED SPACECRAFT CENTER HOUSTON, TEXAS



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

Editor: Pete Smetek - Photographer: A. "Pat" Patnesky



The Photo Roundup is a new feature for your newspaper. Do you want to be in pictures? MSC employees now is your chance to demonstrate your skill as a photographer and at the same time do a real service to your fellow employees. MSC clubs please note this is an excellent opportunity to get some action publicity.

The pictures used must show MSC employees involved in social, athletic, travel, or human interests activities. The photos should be black and white glossy prints, and do not send negatives. Pictures are not guaranteed to be printed or returned, so do not send photos that cannot be replaced.

### LSI Hosts Moon Conference

Conferences on space biology, solar particles and, on geophysics of the moon attracted leading scientists from the United States and a number of foreign countries to the Lunar Science Institute, adjacent to the NASA Manned Spacecraft Center, Houston during the past two weeks.

Scientists discussed the chemical evolution of life, extra terrestrial life detection, and the response of living organisms to extra terrestrial conditions at a two day conference October 11 and 12 at the LSI. The conference was headed by Dr. John Weete, Assistant Scientist at the Lunar Science Institute.

On October 13-15, Dr. Robert M. Walker, Director of the Laboratory for Space Physics at Washington University, St. Louis, Missouri, chaired a conference on "Modern and Ancient Energetic Particles from the Sun." Scientists who have measured the properties of energetic particles in space probes and those who have studied their effects in returned lunar samples participated in the conference.

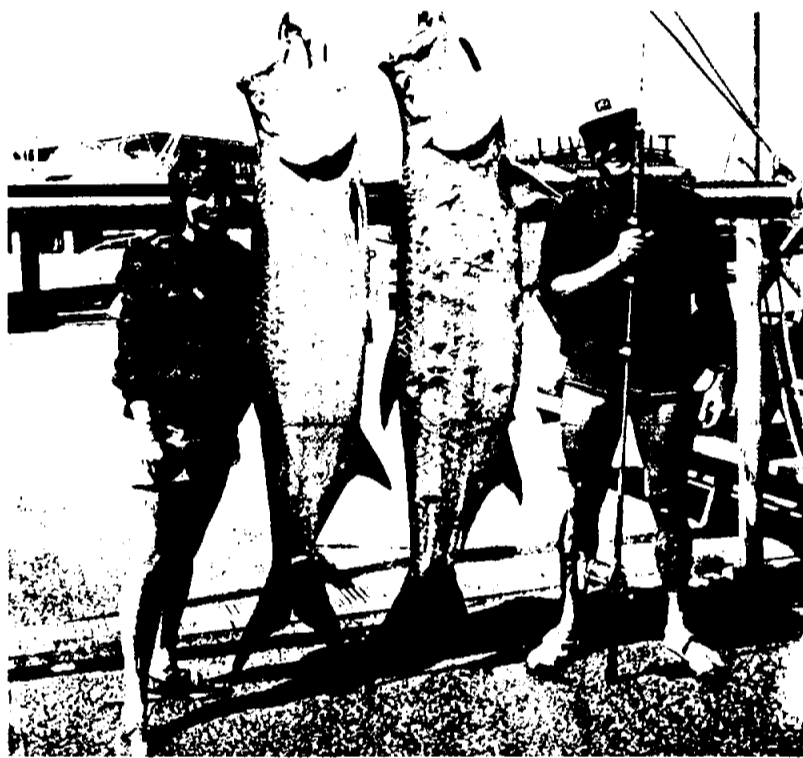
A third conference at the LSI scheduled for October 18-21 discussed lunar geophysics, including some preliminary results from Apollo 15. The four day meeting was chaired by Dr. David W. Strangway, Chief of the Geophysics Branch at the NASA Manned Spacecraft Center.

Dr. Joseph W. Chamberlain, Director of the LSI, said there was excellent participation by leading scientists in each of the conferences.

The Lunar Science Institute was established in 1969 by NASA and the National Academy for scientists conducting lunar studies.

SUGAR AND SPICE, AND FOUR THAT ARE VERY NICE With sales girls like these is it any wonder there were 5000 people at the MSC Picnic. Ginny Hughes, Ticket Chairman, presents the top ticket sellers with prizes. Margaret McClure, first place, a Salton bun warmer; Susie Cardenas, second place, a stack n'Snack set; and Mary Yarbrough, third place, wins a casserole dish with warmer tray.

## PHOTO ROUNDUP



Big ones didn't get away. Tom Gibson of Flight Support caught the two biggest tarpon of his fishing career on October 11 at Port Isabel. The big one weighed 160 lbs and the other keeper went 120 lbs. Mrs. Gibson, formerly Billie Miller, pictured on the left, claims all of her big ones got away.

### Mariner 9 to Study Mars

Is Mars totally bleak and inhospitable to life? Or could water still be found on the planet? What role do dust storms play in forming Martian clouds?

These questions may be answered, at least in part, starting November 13 when Mariner 9 goes into orbit around Mars for a minimum 90-day study period in the National Aeronautics and Space Administration's most ambitious planetary trip to date.

Space scientists hope to receive more definitive readings from their instruments than those received in the 1969 flybys of Mariners 6 and 7. The results of those flights changed centuries-old concepts of Mars as a friendly habitat for some form of life to a cold, barren planet as hostile as Antarctica.

The discovery of an organic compound or some member of the carbon family would be a hopeful sign of developing life, however

primitive, on the planet. While apparently hostile to common earthly forms of life, Mars may foster its own rugged unearthly organisms.

Some support of this hope was indicated in 1970 experiments by researchers at the Jet Propulsion Laboratory, Pasadena, Calif., who produced three organic compounds in the laboratory simulating Martian soil, atmosphere and ultraviolet radiation.

The compounds (formaldehyde, acetaldehyde and glycolic acid) were thought likely to be produced by sunlight on the surface of Mars. The investigators also believed those compounds were precursors to biological molecules on the primitive earth.

Final determination of life on the planet, however, probably will have to wait for a landed system analysis later in the 1970s.



Curses Red Baron, or is it the FAA, you'll pay for this. Dick Grow, Center Operations Directorate, returns after a daring dawn patrol over the site. Yes, he was shot down again, but like Snoopy, he will fly another day. Keep your eyes open for a yellow Stearman biplane doing death defying acrobatics.



Vip visitor to Bldg. 1—The VIP was a Very Indignant Possum. All I wanted was a guided tour of the Center and they insisted I play possum. I don't want to play games. Take me to your leader! Naturally, he ended up in a stew.

### I Am a Secretary

*All I have to do is  
Look like a girl,  
Think like a man,  
Act like a lady  
And work like a dog!*

### White Sands 100%

The White Sands Test Facility (WSTF) has completed its Combined Federal Campaign (CFC) with every employee contributing to its success. The WSTF participates in the Sun Country CFC which includes El Paso County, Texas, and the New Mexico counties of Dona Ana and Otero.

Average employee contribution was \$28.41 and is an increase over the average of last year which was \$25.44. More than half of the employees chose the Payroll Deduction method.

Ken Gilbreath, WSTF Manager, stated that he is extremely pleased with the prompt successful completion of this CFC drive which achieved 139% of the dollar goal for WSTF. Assistant to the Manager, L. Maurice Clelland, served as Drive Chairman.

### Corn Blight Survey Completed

A joint experiment conducted by the National Aeronautics and Space Administration (NASA) and the U.S. Department of Agriculture (USDA) to gather information on southern corn leaf blight from aircraft has been completed and the data are being analyzed.

Preliminary results show the blight can be detected and its progress monitored by sensor-bearing aircraft.

Although southern corn leaf blight was not as severe as projected, the presence of such a widespread infestation provides a unique opportunity to assess crop surveys. The technique offers promise in providing quick and accurate surveys of large areas of farmland from aircraft or spacecraft.

USDA and NASA are analyzing results of the experiment in detail to not only determine the usefulness of crop infestation surveys, but for many other agricultural applications such surveys promise. It is expected results of the analysis will be announced within the next few months.

### Editor's Last Word

Those that continue to doubt the need for manned programs should compare the results of Lunakod and the Apollo 15 missions. Both have flown within the same time frame, with similar missions to explore the moon, but the scientific data from Apollo 15 is probably 100,000 times greater in my estimation.

Another factor critics of manned space flight often overlook is the necessity for man to establish bases beyond the earth's boundaries (atmosphere and gravity), if he expects to make some further dramatic breakthroughs in his exploration of space.

